List of Publications of IIEST Shibpur during year 2016-2018

Title of the Paper	Author Name	Journal Name / Conference Name	Vol No	Issue No	Year	Page No
An efficient plate element for the vibration of composite plates	P. Dey, S. Haldar, D. Sengupta and A. H. Sheikh	Elsevier Science			2016	
Free vibration analysis of rectangular plates with central cutout' Cogent Engineering	K. Kalita and S. Haldar	Cogent Engineering	3	1	2016	
Free vibration analysis of laminated composites by a nine node isoparametric plate bending element	K. Kalita, M. Ramachandran, P. Raichurkar, S. Mokal and S. Haldar	Advanced Composite Letters	25	5	2016	108-116
Rotary inertia effect in isotropic plates Part I: uniform thickness.	K. Kalita,, I. Shivakoti, R. K. Ghadai. And S. Haldar	Acoustic and Vibration	13	2	2016	68-74
Rotary inertia effect in isotropic plates Part II: Taper thickness.	K. Kalita, I. Shivakoti, R. K. Ghadai. And S. Haldar	Acoustic and Vibration	13	2	2016	75-80
Eigenfrequencies of simply supported taper plates with cut outs	Kalita and S. Haldar	Structural Engineering and Mechanics	63	1	2017	103-113
Free vibration analysis of laminated composite skew plates with cut out	Arpita Mandal, Chaitali Roy and Salil Haldar	Archive of Applied Mechanics	87	9	2017	1511-1523
Robust genetically-optimized skew laminates	K. Kalita, P. Dey and S. Haldar	Mechanical Engineering Sciences				
Metamodel based multi-objective design optimization of laminated composite plates	K. Kalita, P. Nasre, P. Dey and S. Haldar	Structural Engineering and Mechanics	67	3	2018	301-310
Grid generated turbulence under the rigid boundary influence	Pankaj Kumar Raushan, Santosh Kumar Singh , Koustuv Debnath	Journal of Wind Engineering & Industrial Aerodynamics	182		2018	252-261
Distribution of turbulent energy in combined wave current flow	Pankaj Kumar Raushan, Santosh Kumar Singh, Koustuv Debnath, Manidipto Mukherjee & Bijoy	Ocean Engineering	167		2018	310-316
Turbulent oscillatory flow along unidirectional current over square ribs	Santosh Kumar Singh; , Pankaj kumar raushan, Koustuv Debnath, Bijoy Singha Mazumder	Canadian Journal of Civil Engineering	45	4	2018	248-262
Turbulence statistics and distribution of turbulent eddies	Sayahnya Roy, Koustuv Debnath & Bijoy S. Mazumder	Archives of Mechanics	70	1	2018	1 - 34
Higher order turbulent flow characteristics of oscillatory flow over a wall-mounted obstacle	Santosh Kumar Singh, Pankaj Kumar Raushan, Koustuv Debnath & Bijoy S. Mazumder	ISH Journal of Hydraulic Engineering, Taylor and Francis	Published online, 21st March, 2018		2018	8 pages

Flume study on contraction scour in clay–sand mixed cohesive bed	Susanta Chaudhuri, Koustuv Debnath, Sayahnya Roy and Mrinal K. Manik	ISH Journal of Hydraulic Engineering, Taylor and Francis	Published online on 03rd				8 pages
Combined effect of wave and current in rough bed free surface flow	Santosh Kumar Singh a, Pankaj Kumar Raushan b, Koustuv Debnath	Ocean Engineering	60		2018	20 - 32
Wave-current generated turbulence over hemisphere bottom roughness	Krishnendu Barman, Sayahnya Roy, Koustuv Debnath	Estuarine, Coastal and Shelf Science	202		2018	42736.00
A numerical investigation of slip flow through circular micro-channel	Santosh Kumar Singh , Vijay Kumar Pal , Koustuv Debnath	International Journal of Fluid Mechanics Research	45	5	2018	413-423
Turbulence over a pair of submerged hemisphere in presence of surface wave and	Krishnendu Barman, K. Debnath & B. S. Mazumder	J. Offshore Mech.Arct. Engg, ASME	140	3	2018	031104-1 to 031104-10
Effect of relative spacing on wake turbulence under wave-current flow	Krishnendu Barman, Sayahnya Roy, Koustuv Debnath	Canadian Journal of civil engineering	45	6	2018	489-503
Study of turbulent eddies for wave against current	Sayahnya Roy, Sidhartha Sankar Samantaray, Koustuv Debnath	Ocean Engineering	150		2018	176–193
Turbulent characteristics of pulsating flow over hydraulically smooth surface	Santosh Kumar Singh Pankaj Kumar Raushan Koustuv Debnath	European Journal of Mechanics / B Fluids	68		2018	10–19
Distribution of turbulent eddies behind a monopile for vortex lock-on condition due to	Sayahnya Roy, Koustuv Debnath, Bijoy S. Mazumder	Coastal Engineering	131		2018	70–87
Turbulence study over submerged obstacles on waves and currents combined flow	Krishnendu Barman, K. Debnath & B. S. Mazumder	ISH Journal of Hydraulic Engineering, Taylor and Francis	23	3	2017	246-257
Vortex-Synchronization Control around a Partially	Sayahnya Roy and Koustuv Debnath	J. Waterway, Port, Coastal, Ocean Eng.,	143	6	2017	06017003-1-8
Turbulent wakes behind bed-mounted hemispheres in co-existing surface wave	Krishnendu Barman and Koustuv Debnath	International Journal of Fluid Mechanics Research,	44	2	2017	169–183
Pier scour within long contraction in cohesive sediment	Susanta Chaudhuri, Santosh Kumar Singh, Koustuv Debnath, Mrinal K. Manik	Environ Fluid Mech	18	2	2018	417-441
Distribution of eddy scales for wave current combined flow	Sayahnya Roy, Koustuv Debnath & Bijoy S. Mazumder	Applied Ocean Research	63		2017	170–183
Turbulence characteristics of flow under combined wave-current motion.	Singh, S. K. And Debnath, K	J. Offshore Mech.Arct. Engg, ASME	139	2	2017	021102 - 10
Turbulence over cube-mounted rough bed using spatiotemporal averaging approach	Santosh Kumar Singh, Koustuv Debnath, Bijoy S. Mazumder	Canadian Journal of Civil Engineering,	44	7	2017	504-517
Higher-order turbulence statistics of wave–current flow over a submerged hemisphere	Krishnendu Barman, Koustuv Debnath and Bijoy S Mazumder	Fluid Dynamics Research	49	2	2017	025504 - (p27)
Changes in turbulent flow structure over rough-bed under combined wave-current	Santosh Kumar Singh, Koustuv Debnath and	ISH Journal of Hydraulic Engineering, Taylor and Francis	22	3	2016	305–313

Title	Authors	Journal	Volume	Issue	Year	Pages
Spatially-averaged turbulent flow over cubical roughness in	Santosh Kumar Singh, Koustuv Debnath BijoyS.Mazumder	Coastal Engineering	114		2016	77–85
Combined effects of wave and current in free	Santosh Kumar Singh, Koustuv Debnath	Ocean Engineering	127		2016	170–189
Turbulence between two inline hemispherical obstacles under	K. Barman, K. Debnath & B.S. Mazumder	Advances in Water Resources	88		2016	32–52
Turbulence Statistics of Wave-Current Flow over	Santosh Kumar Singh, Koustuv Debnath and Bijoy S. Mazumder	J. Waterway, Port, Coastal, Ocean Eng.,	142	3	2016	04015027 1-20
Turbulent flow characteristics in a rectangular channel under the influence of cube-mounted	Santosh Kumar Singh, Koustuv Debnath	ISH Journal of Hydraulic Engineering, Taylor and Francis	23	2	2016	167-176
Automobile Frontal Impact on Knee-Thigh-Hip complex	Majumder, S., Sahoo, A., Roychowdhury, A	Mechanical Engg & Biomechanics	1		2017	116-126
Review: Problems with use of Trans-Tibial Prosthesis	Chatterjee, S., Roychowdhury, A., Pal, S., Majumder, S.,	Medical Imaging and Health Informatics	6		2016	269-284
Hand Gesture Recognition Based Omnidirectional Wheelchair Control Using IMU and EMG Sensors	Kundu, Ananda Sankar; Mazumder, Oishee; Lenka, Prasanna Kumar & Bhaumik, S.	Intelligent & Robotic Systems	91	3-4	2018	529-541
Vision-based human grasp reconstruction inspired by hand postural synergies	Chattaraj, Ritwik; Khan, Siladitya; Roy, Deepon Ghose, Bepari, B, & Bhaumik, S	Computers & Electrical Engineering	70		2018	702-721
Measurement of walking speed from gait data using kurtosis and skewness based approximate and detailed coefficients	Masum, Habib; Chattopadhyay, Surajit; Ray, Ranjit & Bhaumik, S	IET Science Measurement & Technology	12	4	2018	521-527
Soft wearable ionic polymer sensors for palpatory pulse-rate extraction	Chattaraj, Ritwik; Bhaumik, Subhasis; Khan, Siladitya	Sensors And Actuators A-Physical	270		2018	65-71
Measurement of Walking Speed from EMG Signal using Kurtosis of Approximate Coefficients	Masum, Habib; Chattopadhyay, Surajit; Ray, Ranjit & Bhaumik, S	Advanced Computational And Communication Paradigms	475		2018	317-325
An iteratively optimized resolution to hyper redundancy for dissimilarly doped compliant IPMC actuators	Chattaraj, Ritwik; Khan, Siladitya; Dasgupta, Aritra & Bhaumik, S.	Mechatronics	46		2017	154-167
Scanning Camera and Augmented Reality Based Localization of Omnidirectional Robot for Indoor Application	Kundu, Ananda Sankar; Mazumder, Oishee; Dhar, Ankit & Bhaumik, S.	IEEE International Symposium on Robotics and Intelligent Sensors (IRIS)	105		2017	27-33
Omnidirectional Assistive Wheelchair: Design and Control with Isometric Myoelectric Based Intention Classification	Kundu, Ananda Sankar; Mazumder, Oishee; Lenka, Prasanna K & Bhaumik, S.	IEEE International Symposium on Robotics and Intelligent Sensors (IRIS)	105		2017	68-74
Design and Performance Evaluation of 4 Wheeled Omni Wheelchair with Reduced Slip and Vibration	Kundu, Ananda Sankar; Mazumder, Oishee; Lenka, Prasanna K. & Bhaumik, S.	IEEE International Symposium on Robotics and Intelligent Sensors (IRIS)	105		2017	289-295

Development of two Jaw Compliant Gripper based on Hyper-Redundant Approximation of IPMC Actuators	Chattaraj, R., Khan, S., Bhattacharya, S., Bepari, B., Chatterjee & Bhaumik, S.	Actuators A: Physical, Elsevier	251	1	2016	207-218
Robotic AFO to enhance walking capacity: Initial development	Mazumder, O., Kundu, A., Lenka, P., Bhaumik, S.	Electronics Letters, IET	52	2	2016	
Multi-channel Fusion Based Adaptive Gait Trajectory Generation Using Wearable Sensors	Mazumder, O., Kundu, A.S., Lenka, P.K., Bhaumik, S.	Robotic Systems: Theory and Applications,Springer	86	03-Apr	2017	
Ambulatory activity classification with dendogram-based support vector machine: Application in lower-limb active exoskeleton	Mazumder, O., Kundu, A.S., Lenka, P.K., Bhaumik, S.	Gait and Posture, Elsevier	50		2016	53-59
Soft robotic finger fabrication with PDMS and IPMC actuator for gripping	Bhattacharya, S., Bepari, B., Bhaumik, S	IEEE SAI Computing Conference			2016	403-408
Shape estimation of IPMC actuators in ionic solutions using hyper redundant kinematic modeling	Chattaraj, R., Khan, S., Bhattacharya, S., Bepari, B., Chatterjee, D	Mechanism and Machine Theory, Elsevier	103		2016	174-188
Occupancy grid map generation using 360° scanning xtion pro live for indoor mobile robot navigation	Kundu, A.S., Mazumder, O., Dhar, A.	Int.C. on Control, Measurement and Instrumentation, CMI 2016, IEEE			2016	464-468
Optimal selection of dental implant for different bone conditions based on the mechanical	Roy S., Das M., Chakraborty P., Biswas J., Chatterjee S., Khutia N., Saha S., RoyChowdhury	Acta of Bioengineering and Biomechanics	19	2	2016	Nov-20
Estimation of Effective Directional Strength of Single Walled Wavy CNT Reinforced	Bhowmik, Krishnendu; Kumar, Pranav; Khutia, Niloy & Chowdhury, AR	NCPCM 2017	338		2017	
Understanding compressive deformation behavior of porous Ti using Finite Element Analysis	Roy S., Das M., Khutia N., Das D., Balla K V., Roy Chowdhury A., Bandopadhyay Amit	Materials Science and Engineering C. Elsevier	64		2016	436 - 443
Effect of Loading Variations on Damage of SA333 C-Mn Steel	Chakrabarty A., Bar H. N., Dey P. P., Sivaprasad S., Khutia N.	Materials Today Proceedings, Elsevier			2017	
Low Cycle Fatigue Performance Evaluation of TMT rebar	Das B. K., BakkarMd Abu, Das D. D., Khutia N.	Materials Today Proceedings, Elsevier	4	2	2016	
Prediction of Directional Young's Modulus of Particulate Reinforced MMC using Finite Element Methods	Singh V., Basantia S. K.,Bhattacharya A., Das D., Khutia N.	Int. Conf. of Mechanical, Materials and Renewable Energy, (ICMMRE 2017)			2017	29
Low cycle fatigue analysis of ferrite-martensite dual-phase steel using advanced cyclic plasticity model	Singh V., Basantia S. K.,Bhattacharya A., Das D., Khutia N.	Int. Conf. of Mechanical, Materials and Renewable Energy, (ICMMRE 2017)			2017	72
Design of patient specific dental implant using FE analysis and computational intelligence techniques	Roy S., Dey Swati, Roy Chowdhury A., Datta S. & Khutia N.	Applied Soft Computing	65		2018	272-279

Cyclic plasticity model with modified isotropic hardening rule for low cycle fatigue life prediction of SA333 GR.6 carbon steel	Das P., Khutia N., Dey P. P., Gupta S. K	1st Int. Conf. on Mechanical Engg. INCOM18			2018	127-130
Microstructure Based FE Simulation to Predict Flow Behaviour of Dual Phase Steel Through RVE Approach, Proceedings of the 1st International Conference on Mechanical Engineering (INCOM18)	Basantia S. K., Das D, Khutia N.	1st Int. Conf. on Mechanical Engineering (INCOM18)			2018	131-134
Transient growth of optimal perturbation in a decaying channel flow	Avinash Nayak and Debopam Das	Physics of Fluids	29	6	2017	064104
Computational study on the effect of bend curvature on velocity distribution from straight	Dutta, P. and Nandi, N	international conference on Engineering Problems and			2016	
Numerical study on the effect of bend curvature on static pressure distribution from straight to a	Dutta, P. and Nandi, N	3rd international conference on applications of fluid dynamics			2016	
Free vibration of cross-ply composite plates by a high order shear deformable finite element	M. Manna	Research & Reviews: Journal of Physics	5	3	2016	36-47
Vibration analysis of rotating istropic and composite smart plates using FEM	M. Manna, S. Pattanayak	Int. Conf. on Advances in Dynamics, Vibration and Control			2016	82-86
Dynamic Re-Crystallization of Low Carbon Steel in Plain Strain Condition	Kumar, P., Banerjee, M. K., Hodgson, P., Roy Chowdhury, A.	Mechanical Engineering and Robotics Research	5	2	2016	160
Precipitation of copper and Grain refinement in Low Carbon Steel in Hot Rolling	Kumar, P., Roy Chowdhury, A.	Materials Science & Surface Engineering	4	5	2016	428-431
Electromagnetic Response of Bones Adjacent to the Dental Root Before and After Dental Implantation	Majumder, S., Saha, S., Roy Chowdhury, A.	Journal of Long-Term Effects of Medical Implants	26	4	2016	295-302
Mechanochemical synthesis of nanocrystalline hydroxyapatite from Mercenaria clam shells and phosphoric acid	Pal, A., Maity, S., Chabri, S., Bera, S., Das, M., & Sinha, A. & Roy Chowdhury, A.	Biomedical Physics & Engineering Express	3		2017	
Design, Development and Flight Testing of a Novel Quadrotor Convertiplane Unmanned Air Vehicle	Abhishek, Krishna, R., Sinha, S., Bhowmik, J. and Das, D.	Proceedings of 73rd American Helicopter Society Annual Forum, Fort Worth, Texas, USA			2017	
Seismic Behaviour of Horizontally Irregular Structures: Current Wisdom and Challenges Ahead	Chakroborty, S. and Roy, R	Applied Mechanics Reviews, ASME	68	6	2016	060802:1-17

Implications of Bi-directional Interaction on Seismic Fragilities of Structures	Pramanik, D., Banerjee, A. K., and Roy, R.	Coupled Systsems Mechanics, Techno	5	2	2016	101-126
Seismic Structural Fragilities: Proposals for Improved Methodology per Spectral Matching of Accelerogram	Banerjee, A.K., Pramanik, D., and Roy, R.	Engineering Structures, Elsevier	111	-	2016	538-551
Influence of Bi-directional Near-fault Excitations on RC Bridge Piers	Sengupta, A., Quadery, L., Sarkar, S. and Roy, R.	Journal of Bridge Engineering, ASCE	21	7	2016	04016034:1-30
Influence of Strong Motion Characteristics on Permanent Displacments of Slopes	Roy, R., Ghosh, D. and Bhattacharya, G.	Landslides, Springer	13	2	2016	279-292
Role of Ground Motion Characteristics on Inelastic Seismic Response of Irregular Systems	Chakroborty, S. and Roy, R	Journal of Architechtural Engineering	22	1	2016	B4015007:1-16
Maximum credible damage of RC bridge pier under bi-directional seismic excitation for all incidence angles	Roy, Aparna; Bhattacharya, Gautam; Roy, Rana	Engineering Structures	152		2017	251-273
Estimating seismic response under bi-directional shaking per uni-directional analysis: Identification of preferred angle of incidence	Roy, Aparna; Santra, Atanu; Roy, Rana	Soil Dynamics and Earthquake Engineering	106		2018	163-181
Seismic Behavior of RC Bridge Piers under Bidirectional Excitations: Implications of Site Effects	Kar, Debashis; Roy, Rana	Journal of Earthquake Engineering	22	2	2018	303-331
Syntheses, structural, spectroscopic and magnetic properties of polynuclear Fe(III) complexes containing N and O donor ligands	A. K. Dutta, S. Biswas, S. Dutta, L. N. Dawe, C. R. Lucas, B. Adhikary	Inorg. Chim. Acta	444	NA	2016	141-149
Iron(III) complexes of 2-(1H-benzo[d]imidazol-2-yl)phenol and acetate or nitrate as catalysts for epoxidation of olefins with hydrogen peroxide	A. K. Dutta, S. Samanta, S. Dutta, C. R. Lucas, L. N. Dawe, P. Biswas, B. Adhikary	J. Mol. Struct	1115	NA	2016	207-213
Enhanced photocatalytic performance of morphologically tuned Bi2S3 NPs in the degradation of organic pollutants under visible light irradiation	A.Sarkar, A. B. Ghosh, N. Saha, D. N. Srivastava, P. Paul, B. Adhikary	J. Colloid Interface Sci	483	NA	2016	49-59
Morphological tuning of Eu_2O_2S nanoparticles, manifestation of peroxidase-like activity and glucose assay use	A. B. Ghosh, N. Saha, A. Sarkar, A. K. Dutta, P. Biswas, K. Nag, B. Adhikary	New J. Chem	40	2	2016	1595-1604

A pyrazolyl-based thiolato single-source precursor for the selective synthesis of isotropic copper-deficient copper(I) sulfide nanocrystals: synthesis, optical and photocatalytic activity	Gopinath Mondal, Ananyakumari Santra, Pradip Bera, Moumita Acharjya, Sumanta Jana, Dipankar Chattopadhyay, Anup Mondal, Sang Il Seok, Pulakesh Bera	J. Nanopart. Res.	18		2016	311
Impact of substrate temperature on the structural, optical and electrical properties of thermally evaporated SnS thin films	Arindam Basak, Anup Mondal, Udai P. Singh	Materials Science in Semiconductor Processing	56		2016	381–385
α-Fe2O3 nanospheres: Facile synthesis and highly efficient photo-degradation of organic dyes and surface activation by nano-Pt for enhanced methanol sensing	Bibhutibhushan Show, Nillohit Mukherjee, Anup Mondal	RSC Adv.	6		2016	75347-75358
Facile electrochemical deposition of Cu7Te4 thin films with visible-light driven photocatalytic activity and thermoelectric performance	Amrita Ghosh, Mousumi Mitra, Dipali Banerjee and Anup Mondal	RSC Adv.	6		2016	22803–22811
Galvanic synthesis of Cu2-XSe thin films and their photocatalytic and thermoelectric properties	Amrita Ghosh, Chiranjit Kulsi, Dipali Banerjee, Anup Mondal	Applied Surface Science	369		2016	525-534
Fabrication of stable, efficient and recyclable p-CuO/n-ZnO thin film heterojunction for visible light driven photocatalytic degradation of organic dyes	Amrita Ghosh, Chiranjit Kulsi, Dipali Banerjee, Anup Mondal	Materials Letters	164		2016	221–224
Co(III) and Ni(II) complexes of an anthracene appended aroyl hydrazone: synthesis, crystal structures, DNA binding and catecholase activity	S. Mondal, B. Pakhira, A. J. Blake, M. G. B. Drew, S. K. Chattopadhyay	Polyhedron	117		2016	327-337
Role of solvent in the phosphatase activity of a dinuclear nickel(II) complex of a Schiff base ligand: mechanistic interpretation by DFT studies	R. Sanyal, X. Zhang, P. Chakraborty, S. Giri, S. K. Chattopadhyay, C. Zhao, D. Das	New. J. Chem.	40	9	2016	7388-7398
Catecholase activity of Mannich-based dinuclear CuII complexes with theoretical modeling: new insight into the solvent role in the catalytic cycle	R. Sanyal, P. Kundu, E. Rychagova, G. Zhigulin, S. Ketkov, B. Ghosh, S. K. Chattopadhyay, E. Zangrando, D. Das	New. J. Chem.	40	8	2016	6623-6635
Two pseudohalide-bridged Cu(II) complexes bearing the anthracene moiety: Synthesis, crystal structures and catecholase-like activity	P. Adak, C. Das, B. Ghosh, S. Mondal, B. Pakhira, E. Sinn, A. J. Blake, A. E. O'Connor, S. K. Chattopadhyay	Polyhedron	119		2016	39-48

Title	Authors	Journal	Vol	Issue	Year	Pages
Unique mononuclear MnII complexes of an end-off compartmental Schiff base ligand: experimental and theoretical studies on their bio-relevant catalytic promiscuity	J. Adhikary, A. Chakraborty, S. Dasgupta, S. K. Chattopadhyay, R. Kruszynski, A.Trzesowska-Kruszynska, S. Stepanović, M. Gruden-Pavlović, M. Swart, D. Das	Dalton Trans.	45	31	2016	12409-12422
Catecholase activity, DNA binding and Cytotoxicity studies of a Cu(II) complex of a pyridoxal Schiff base: Synthesis, X-ray crystal structure, spectroscopic, electrochemical and theoretical studies	P. Adak, B. Ghosh, A. Bauzá, A. Frontera, A. J. Blake, M. Corbella, C. Das Mukhopadhyay, S. K. Chattopadhyay	RSC Adv.	6	90	2016	86851-86861
Electronic structures and second hyperpolarizabilities of alkaline earth metal complexes end-capped with NA2 (A = H, Li, Na)	P. Banerjee and P.K. Nandi	Phys. Chem. Chem. Phys.	18	18	2016	12505 - 12520
Effect of alkaline earth metal at the single wall CNT mouth on the electronic structure and second hyperpolarizability	K. Hatua and P.K. Nandi	J. Theor. Comput. Chem	15	5	2016	16500401-14
Fluorescent Imaging Probe from Nanoparticle Made of AIE Molecule	K. Mandal, D. Jana, B. K. Ghorai, N.R. Jana,	J. Phys. Chem. C	120		2016	5196−5206
Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging	Ajit Kumar Mahapatra, Syed Samim Ali, Kalipada Maiti, Sanchita Mondal, Rajkishor Maji, Srimanta Manna, Saikat Kumar Manna	RSC Advances	6	114	2016	113219-113227
A highly sensitive fluorescent probe for detection of hydrazine in gas and solution phases based on the Gabriel mechanism and its bioimaging	Rajkishor Maji, Ajit Kumar Mahapatra, Kalipada Maiti, Sanchita Mondal, Syed Samim Ali, Prithidipa Sahoo, Sukhendu Mandal, Md Raihan Uddin, Shyamaprosad Goswami, Ching Kheng Quah, Hoong-Kun Fun	RSC Advances	6	75	2016	70855-70862
A Fluorophore-Free Chemodosimeter for H2S with Luminescence Turn–on Response: Hyrdogen Sulphide Sensing in Garlic Extract	Kalipada Maiti, Ajit Kumar Mahapatra, Rajkishor Maji, Sanchita Mondal, Syed Samim Ali, Ankita Gangopadhyay, Saikat Kumar Manna and Sukhendu Mandal	ChemistrySelect	1	15	2016	5066-5073
Highly Selective Ratiometric Fluorescent Probes for Detection of Perborate Based on Excited-State Intramolecular Proton Transfer (ESIPT) in Environmental Samples and Living Cells	Ajit Kumar Mahapatra, Sanchita Mondal, Saikat Ku.mar Manna, Kalipada Maiti, Rajkishor Maji, Syed Samim Ali, Sukhendu Mandal, Md Raihan Uddin and Dilip Kumar Maiti	ChemistrySelect	3	3	2016	375-383
Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer	Ajit Kumar Mahapatra, Sanchita Mondal, Saikat Kumar Manna, Kalipada Maiti, Rajkishor Maji, Syed Samim Ali, Debasish Mandal, Md. Raihan Uddin & Sukhendu Mandal	Supramolecular Chemistry	28	7-8	2016	693-706

Document Deciphering parameter sensitivity in the BvgAS signal transduction	Mapder, T. , Talukder, S., Chattopadhyay, S., Banik, S.	Plos ONE	11		2016	e0147281
State-specific multireference perturbation theory: Development and present status	Chattopadhyay, S., Chaudhuri, R. K., Mahapatra, U. S., Ghosh, A., and Sinha Ray, S.	Wiley Interdisciplinary Reviews Computational Molecular Science	6		2016	266-291
A state-specific multireference coupled cluster approach with a cost effective treatment of connected triples: Implementation to geometry optimization	Banerjee, D., Mondal, M., Chattopadhyay, S., and Mahapatra, U. S.	Molecular Physics	114		2016	1591-1608
Taming the Electronic Structure of Diradicals Through the Window of Computationally Cost Effective Multireference Perturbation Theory	Sinha Ray, S., Ghosh, A., Chaudhuri, R. K., and Chattopadhyay, S.	Journal of Physcial Chemistry A	120		2016	5897-5916
Relativistic state-specific multireference coupled cluster theory description for bond-breaking energy surfaces	Ghosh, A., Chaudhuri, R. K., and Chattopadhyay, S.	Journal of Chemical Physics	145		2016	124303
A dynamic chitosan-based self-healing hydrogel with tunable morphology and its application as an isolating agent	S. Maity, A. Dutta, S. Lahiri and J. Ganguly	RSC Advances	6	84	2016	81060
Biosynthesis, Characterization and Antimicrobial activity of Silver and Gold nanoparticles by Dolichos biflorus Linn seed extract	S. Basu, P. Maji and J. Ganguly	Journal of Experimental Nanoscience	11	8	2016	660
A Comparative Bioefficacy of Aqueous and Methanolic Extract of Trachyspermum ammi Towards the Antioxidant Potentiality and Electrochemical Behaviour	S. Basu and J. Ganguly	Asian Journal of organic and Medicinal Chemistry	1	1	2016	17
Rapid green synthesis of silver nanoparticles by aqueous extract of seeds of Nyctanthes arbor-tristis"	S. Basu, P. Maji and J. Ganguly	Applied Nanoscience	6		2016	1
Photocurrent switching effect on platelet-like BiOI electrodes: influence of redox system, light wavelength and thermal treatment	M.E. Kazyrevich, M.V. Malashchonak, A.V. Mazanik, E.A. Streltsov, A.I. Kulak, C. Bhattacharya	Electrochimica Acta	190	4 (1 Februar y 2016)	2016	612-619
Benign role of Bi on an electrodeposited Cu_2O semiconductor towards photo-assisted H_2generation from water	S. Shyamal, P. Hajra, H. Mandal, A. Bera, D. Sariket, A.K. Satpati, S. Kundu and C. Bhattacharya	Journal of Materials Chemistry A	4	23	2016	9244-9252

Title	Authors	Journal	Vol	Issue	Year	Pages
Development of ternary iron vanadium oxide semiconductors for applications in photoelectrochemical water oxidation	H. Mandal, S. Shyamal, P. Hajra, A. Bera, D. Sariket, S. Kundu and C. Bhattacharya	RSC Advances	6	6	2016	4992-4999
Enhanced photovoltage in DSSCs: synergistic combination of a silver modified TiO_2 photoanode and a low cost counter electrode	S. Sardar, S. Ghosh, H. Remita, P. Kar, B. Liu, C. Bhattacharya, P. Lemmensc and S.K. Pal	RSC Advances	6	40	2016	33433-33442
3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz) mediated metal-free mild oxidation of thiols to disulfides in aqueous medium	S. Samanta, S. Ray, A. B. Ghosh and Papu Biswas	RSC Adv.	6		2016	39356–39363
Deprotonation Induced Ligand Oxidation in a NiII Complex of a Redox Noninnocent N1-(2-Aminophenyl)benzene-1,2-diamine and Its Use in Catalytic Alcohol Oxidation	Rina Sikari, Suman Sinha, Upasona Jash, Siuli Das, Paula Brandão, Bas de Bruin, and Nanda D. Paul	*Inorg. Chem.*	55	12	2016	6114
C-Terminal Tail Insertion of Bcl-xL in Membrane Occurs via Partial Unfolding and Refolding Cycle Associating Microsolvation	Atanu Maity, Souvik Sinha, Debabani Ganguly, Shubhra Ghosh Dastidar	Physical Chemistry Chemical Physics	18	34	2016	24095-24105
Facile synthesis of SnO_2-PbS nanocomposites with controlled structure for applications in photocatalysis	Kar, A., Sain, S., Rossouw, D., Knappett, B., Pradhan, S., Wheatley, A.	Nanoscale	8		2016	2727-2739
Structure, optical and magnetic characterizations of Mn doped ZnS dilute magnetic semiconductor synthesized by mechanical alloying	Sain, S., Kar, A., Mukherjee, M., Das, D., Pradhan, S.	Advanced Powder Technology	27		2016	1790-1799
Peptide based hydrogels for cancer drug release: Modulation of stiffness, drug release and proteolytic stability of hydrogels by incorporating D-amino acid residue(s)	Kingshuk Basu, Abhishek Baral, Shibaji Basak, Ashkan Dehsorkhi, Jayanta Nanda, Debmalya Bhunia, Surajit Ghosh, Valeria Castelletto, Ian W Hamley, Arindam Banerjee	Chemical Communications	52	28	2016	5045-5048
Emergent Catalytic Behavior of Self-Assembled Low Molecular Weight Peptides	Marta Tena-Solsona, Jayanta Nanda, Santiago Díaz-Oltra, Agata Chotera, Gonen Ashkenasy and Beatriu Escuder	Anew. Chem. Int. Ed.	55	34	2016	9988-9992
The strong influence of structure polymorphism on the conductivity of peptide fibrils	Denis Ivnitski, Amit Moran, Ohad Silberbush, Yoav Raz, Jayanta Nanda, Rivika Luria, Yifat Miller, Gonen Ashkenasy and Nurit Ashkenasy	Chemistry- A European Journal	22	19	2016	6687-6694
Cobalt nanoparticles as reusable catalysts for reduction of 4-nitrophenol under mild conditions	A. Mondal, A. Mondal, B. Adhikary, D. K. Mukherjee	Bulletin of Materials Science	40	2	2017	321-328

Title	Authors	Journal	Volume	Issue	Year	Pages
Observation of enhanced photocurrent response in M–CuInS2(M = Au, Ag) heteronanostructures: phase selective synthesis and application	A. B. Ghosh, N. Saha, A. Sarkar, A. K. Dutta, S. K. Maji, B. Adhikary	New J. Chem	41	2	2017	692-701
Facile synthesis of nickel oxide thin films from PVP encapsulated nickel sulfide thin films: an efficient material for electrochemical sensing of glucose, hydrogen peroxide and photodegradation of dye	Sumanta Jana, Gopinath Mondal, Bibhas Chandra Mitra, Pulakesh Bera, Biswajit Chakraborty, Anup Mondal and Ashutosh Ghosh	New J. Chem.	41		2017	14985
Reusable iron sulfide nanospheres towards promoted photocatalytic and electrocatalytic activities	Bibhutibhushan Show, Nillohit Mukherjee, Anup Mondal	New J. Chem.	41		2017	10083
Efficient charge separation in mixed phase Cu7S4-CuO thin film: Enhanced photocatalytic reduction of aqueous Ni (II) under visible-light	Amrita Ghosh and Anup Mondal	Thin Solid Films	628		2017	68–74
Influence of substrate heating on structural, optical and electrical properties of CdS thin film deposited from precursor solutions	Arindam Basak, Udai P. Singh, Saswat Soumya Mishra, Anup Mondal	J. Mater Sci: Mater Electron.	28		2017	6560–6565
Vanadium(V) complexes of some bidentate hydrazone ligands and their bromoperoxidase activity,	P. Adak, B. Ghosh, B. Pakhira, R. Sekiya, R. Kuroda, S. K. Chattopadhyay	Polyhedron	127		2017	135-143
Ruthenium(II/III) complexes of redox non-innocent bis(thiosemicarbazone) ligands: Synthesis, X-ray crystal structures, electrochemical, DNA binding and DFT studies	B. Ghosh, P. Adak, S. Naskar, B. Pakhira, P. Mitra, S. K. Chattopadhyay	Polyhedron	131		2017	74-85
Ruthenium(II) complexes of thiosemicarbazones: Synthesis, X-ray crystal structures, spectroscopy, electrochemistry, DFT studies and fluoride sensing properties	B. Ghosh, P. Adak, S. Naskar, B. Pakhira, P. Mitra, R. Dinda, S. K. Chattopadhyay	Inorg. Chim. Acta,	459		2017	1-14
Cubane-like tetranuclear Cu(II) complexes bearing a Cu_4O_4 core: crystal structure, magnetic properties, DFT calculations and phenoxazinone synthase like activity	S. Sagar, S. Sengupta, A. J. Mota, S. K. Chattopadhyay, A. E. Ferao, E. Riviere, W. Lewis, S. Naskar	Dalton Trans.	46		2017	1249-1259

Ci-Symmetry, [2 × 2] grid, square copper complex with the N4,N5-bis(4-fluorophenyl)-1H-imidazole- 4,5-dicarboxamide ligand: structure, catecholase activity, magnetic properties and DFT calculations	A. Parween, S. Naskar, A. J. Mota, A. E. Ferao, S. K. Chattopadhyay, E. Rivière, W. Lewis, S. Naskar	New. J. Chem.	41	20	2017	11750-11758
Lithium enhanced second hyperpolarizability of inverse sandwich compounds (M-C4X4-M; X = H, Li) of beryllium, magnesium and calcium	A. Mondal, K. Hatua, S. Ghosh, B. Dey and P.K. Nandi	Comp. Theo. Chem.	1112		2017	46 - 51
Successive lithiation of acetylene, ethylene and benzene: a comprehensive computational study of large static second hyperpolarizability	A. Mondal, K. Hatua, R. Sinha Roy and P. K. Nandi	Phys. Chem. Chem. Phys.	19	6	2017	4768 - 4777
First hyperpolarizability of cyclooctatetraene modulated by alkali and alkaline earth metals	R. Sinha Roy, A. Mondal and P. K. Nandi	J. Mol. Model	23	3	2017	93 - 100
Static Second Hyperpolarizability of Diffuse Electron Compound M_2X (M=Li, Na; X=H, F): Ab-initio Study of Basis Set Effect and Electron Correlation	K. Hatua, A. Mondal, and P.K. Nandi	Chem. Phys. Lett.	686		2017	001 - 006
Effect of charge and spin multiplicity on hyperpolarizabilities of donor- acceptor substituted polyenes	S. Ghosh, R. Sinha Roy, P. Banerjee, A. Mondal, K. Hatua and P. K. Nandi	Indian J. Chem.	56A		2017	756-766
A benzopyrylium–phenothiazine conjugate of a flavylium derivative as a fluorescent chemosensor for cyanide in aqueous media and its bioimaging	Sanchita Mondal, Syed Samim Ali, Srimanta Manna, Kalipada Maiti, Md. Raihan Uddin, Sukhendu Mandal, Debasish Mandal and Ajit Kumar Mahapatra	New Journal of Chemistry	41	21	2017	12581-12588
A chromogenic and ratiometric fluorogenic probe for rapid detection of a nerve agent simulant DCP based on a hybrid hydroxynaphthalene -hemicyanine dye	Syed Samim Ali, Ankita Gangopadhyay,Kalipada Maiti, Sanchita Mondal, Ajoy Kumar Pramanik, Uday Narayan Guria, Md. Raihan Uddin, Sukhendu Mandal, Debasish Mandal and Ajit Kumar Mahapatra	Organic and Biomolecular Chemistry	15	28	2017	5959-5967
A Thienyl-Pyridine-based Hantzsch Ester Fluorescent Probe for the Selective Detection of Nitric Oxide and Its Bio-imaging Applications	Syed Samim Ali, Ajoy Kumar Pramanik, Sandip Kumar Samanta, Uday Narayan Guria and Ajit Kumar Mahapatra	Journal of Indian Chemical Society	94	7	2017	791-800

Simple Bisthiocarbonohydrazone as a Sensitive, Selective, Colorimetric, and Ratiometric Fluorescent Chemosensor for Picric Acids	Kalipada Maiti, Ajit Kumar Mahapatra, Ankita Gangopadhyay, Rajkishor Maji, Sanchita Mondal, Syed Samim Ali, Sujoy Das, Ripon Sarkar, Pallab Datta, and Debasish Mandal	ACS Omega	2	4	2017	1583-1593
A reactive primary fluorescence switch-on sensor for Hg2+ and the generated fluorophore as secondary recognition receptor toward Cu2+ in aqueous acetonitrile solution	Srimanta Manna, Parthasarathi Karmakar, Kalipada Maiti, Syed Samim Ali, Debasish Mandal, Ajit Kumar Mahapatra	Journal of Photochemistry and Photobiology A: Chemistry	343		2017	7-16
Phenanthroline-fluorescein molecular hybrid as a ratiometric and selective fluorescent chemosensor for Cu2+ via FRET strategy: synthesis, computational studies and in vitro applications	Sanchita Mondal, Saikat Kumar Manna, Kalipada Maiti, Rajkishor Maji, Syed Samim Ali, Srimanta Manna, Sukhendu Mandal, Md Raihan Uddin & Ajit Kumar Mahapatra	Supramolecular Chemistry	29	8	2017	616-626
Carbazole-driven ratiometric fluorescence turn on for dual ion recognition of Zn and Hg by thiophene-pyridyl conjugate in HEPES buffer medium: spectroscopy, computational, microscopy and cellular studies	Ajit Kumar Mahapatra, Rajkishor Maji, Kalipada Maiti, Sanchita Mondal, Syed Samim Ali, Saikat Kumar Manna & Prithidipa Sahoo	Supramolecular Chemistry	29	3	2017	215-228
Benzthiazole-derived chromogenic, fluorogenic and ratiometric probes for detection of hydrazine in environmental samples and living cells	Ajit Kumar Mahapatra, Parthasarathi Karmakar, Srimanta Manna, Kalipada Maiti, Debasish Mandal	Journal of Photochemistry and Photobiology A: Chemistry	334		2017	1-12
Installation of dual-quenching groups of a fluorescent probe for the specific detection of cysteine and homocysteine over glutathione in solution and imaging of living cells	Ajit Kumar Mahapatra, Srimanta Manna, Parthasarathi Karmakar, Kalipada Maiti, Debasish Mandal Md. Raihan Uddin and Sukhendu Mandal	Supramolecular Chemistry	29	1	2017	59-68
Improved virtual orbitals in state specific multireference perturbation theory for prototypes of quasidegenerate electronic structure	Sinha Ray, S., Ghosh, P., Chaudhuri, R. K., and Chattopadhyay, S.	Journal of Chemical Physics	146		2017	064111
Four-Component Relativistic State-Specific Multireference Perturbation Theory with a Simplified Treatment of Static Correlation	Ghosh, A., Sinha Ray, S., Chaudhuri, R. K., and Chattopadhyay, S.	Journal of Physcial Chemistry A	127		2017	1487-1501
Viewing the ground and excited electronic structures of platinum and its ion through the window of relativistic coupled cluster method	Sinha Ray, S., Chaudhuri, R. K., and Chattopadhyay, S.	Journal of Chemical Physics	146		2017	11102

A confinement induced spectroscopic study of noble gas atoms using equation of motion architecture: Encapsulation within fullerene's voids	Chaudhuri, S. K., Chaudhuri R. K., Mukherjee, and P. K., Chattopadhyay, S.	Journal of Chemical Physics	147		2017	34111
Description of C2 dissociation using a naive treatment of dynamical correlation in the presence of quasidegeneracy of varying degree	Sinha Ray, S., Manna, S., Chaudhuri, R. K., and Chattopadhyay, S.	Molecular Physics	115		2017	2789
A simplified ab initio treatment of diradicaloid structures produced from stretching and breaking chemical bonds	Sinha Ray, S., Ghosh, A., Shit, A., Chaudhuri, R. K., and Chattopadhyay, S.	Physcial Chemical Chemical Physics	19		2017	22282
Combined complete active space configuration interaction and perturbation theory applied to conformational energy prototypes: Rotation and inversion barriers	Sinha Ray, S., Mahapatra. U. S. , Chaudhuri, R. K., and Chattopadhyay, S.	Computational and Theoritical Chemistry	1120		2017	56-78
Enhanced P53-Dependent Growth Inhibition of Human Glioblastoma Cells by Combinatorial Treatment Of Temozolomide And Novel Purified Natural Carbohydrate Of Pleurotus Florida	P.Maji, R. Chatterjeeb, S. Basu, B. P. Choudhury, U. Chatterji and J. Ganguly	. Int J Pharm Pharm Sci	9	6	2017	189
Structural and immunochemical relatedness suggests a conserved pathogenicity motif for 2 secondary cell wall polysaccharides in Bacillus anthracis and infection-associated Bacillus 3 cereus	N. Kamal, J. Ganguly, E. Saile, S. R. Klee, A. Hoffmaster, R. W. Carlson, L. S. Forsberg, E. L. Kannenberg and C. P. Quinn	Plos One	23		2017	1
Temperature controlled fabrication of chemically synthesized cubic In$_2$O$_3$ crystallites for improved photoelectrochemical water oxidation	Debasis Sariket, Sanjib Shyamal, Paramita Hajra, Harahari Mandal, Aparajita Bera, Arjun Maity, Sukumar Kundu, Chinmoy Bhattacharya	Materials Chemistry and Physics	201	17 (1 November 2017)	2017	7-17
Photo-induced electronic properties in single quantum well system: effect of excitonic lifetime	J. Patwari, H. Ghadi, S. Sardar, J. Singhal, B. Tongbram, S. Shyamal, C. Bhattacharya, S. Chakrabarti and S.K. Pal	Materials Research Express	4	1	2017	16301
Sensitized ZnO nanorod assemblies to detect heavy metal contaminated phytomedicines: spectroscopic and simulation studies	D. Bagchi, T.K. Maji, S. Sardar, P. Lemmens, C. Bhattacharya, D. Karmakar and S.K. Pal	Physical Chemistry Chemical Physics	19	3	2017	2503-2513

Redox Noninnocent Azo-Aromatic Pincers and Their Iron Complexes. Isolation, Characterization, and Catalytic Alcohol Oxidation	Suman Sinha, Siuli Das, Rina Sikari, Seuli Parua, Paula Brandão, Serhiy Demeshko, Franc Meyer, and Nanda D. Paul	*Inorg. Chem.*	56	22	2017	14084
One-pot Cascade Synthesis of Quinazolin-4(3H)-ones via Nickel-Catalyzed Dehydrogenative Coupling of o-Aminobenzamides with Alcohols	Seuli Parua, Siuli Das, Rina Sikari, Suman Sinha, and Nanda D. Paul	*J. Org. Chem.*	82	14	2017	7165
Diastereoselective Radical-Type Cyclopropanation of Electron-Deficient Alkenes Mediated by the Highly Active Cobalt(II) Tetramethyltetraaza[14]annulene Catalyst	Andrei Chirila, Braja Gopal Das, Nanda D. Paul, and Bas de Bruin	*ChemCatChem*	9	8	2017	1413
Enzymatic Electrocatalysis of CO_2 Reduction	P. Majumdar, MK Bera, D. Pant, S. Patra	Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry		1	2017	1-13
Targeting low-cost type-II heterostructures: synthesis, structure and photoreactivity.	Kar, A., Sain, S., Rossouw, D., Knappett, B., Pradhan, S., Botton, G. A., Wheatley, A.	Journal of Alloys and Compounds	698		2017	944-956
Emergence of native peptide sequences in prebiotic replication networks	Jayanta Nanda¥, Boris Rubinov¥, Denis Ivnitski, Rakesh Mukherjee, Elina Shtelman, Yair Motro, Yifat Miller, Nathaniel Wagner, Rivka Cohen-Luria, and Gonen Ashkenasy, [¥ indicating equal contribution]	Nature Communications	8	1	2017	434 (1-8)
Two-dimensional sp2 carbon–conjugated covalent organic frameworks	E. Jin, M. Asada, Q. Xu, S. Dalapati, M. Addicoat, M. A Brady, H. Xu, T. Nakamura, T. Heine, Q. Chen, D. Jiang	Science	357	6352	2017	673-676
Two- and three-dimensional covalent organic frameworks (COFs)	Q. Chen, S. Dalapati, D. Jiang	Comprehensive Supramolecular Chemistry II (book chapter)	7		2017	271-291
Facile Fabrication of Novel Hetero-Structured Organic–Inorganic High-Performance Nanocatalyst: A Smart System for Enhanced Catalytic Activity toward Ciprofloxacin Degradation and Oxygen Reduction	P. Mondal, J. Satra, U. K. Ghorui, N. Saha, D. N. Srivastava, B. Adhikary	ACS Appl. Nano Mater.	DOI: 10.1021/ acsanm. 8b00937	NA	2018	NA
Advanced catalytic performance of amorphous MoS2 for degradation/reduction of organic pollutants in both individual and simultaneous fashion	N. Saha, A. Sarkar, A. B. Ghosh, P. Mondal, J. Satra, B. Adhikary	Ecotoxicology and Environmental Safety	160	NA	2018	290-300

Newly Designed Amperometric Biosensor for Hydrogen Peroxide and Glucose Based on Vanadium Sulfide Nanoparticles	A. Sarkar, A. B. Ghosh, N. Saha, G. R. Bhadu, B. Adhikary	ACS Appl. Nano Mater.	1	3	2018	1339-1347
Single source precursor driven phase selective synthesis of Au–CuGaS2 heteronanostructures: an observation of plasmon enhanced photocurrent efficiency	A. B. Ghosh, N. Saha, A. Sarkar, A. K. Dutta, J. Satra, B. Adhikary	Dalton Trans	47	4	2018	1071-1081
Post-growth annealing effect on the performance of Cu2SnSe3 solar cells	Arindam Basak, Anup Mondal, Udai P. Singh	Materials Research Express	In press		2018	-----
Impact of post-deposition annealing in Cu2SnS3 thin film solar cells prepared by doctor blade method	A. Basak , H. Deka, A. Mondal , U. P. Singh	Vacuum	In press		2018	-----
Enhanced photocatalytic activity of ternary CuInS2 nanocrystals synthesized from the combination of a binary Cu(I)S precursor and InCl3	Gopinath Mondal, Ananyakumari Santra, Sumanta Jana, Nimai Chand Pramanik, Anup Mondal, Pulakesh Bera	J. Nanopart. Res.	In press		2018	----
Fabrication of stable NiO/Fe2O3 heterostructure: A versatile hybrid material for electrochemical sensing of glucose, methanol and enhanced photodecomposition and/or photoreduction of water contaminants	Sumanta Jana, Anup Mondal, Ashutosh Ghosh	Applied Catalysis B: Environmental	232		2018	26–36
Turn on Fluorogenic Chemosensor for Fe3+ and Schottky Barrier Diode with Frequency Switching Device Applications	Habib Ali Molla, Rahul Bhowmick, Abu Saleh Musha Islam, Bibhutibhushan Show, Nillohit Mukherjee, Anup Mondal, Mahammad Ali	Photochemical & Photobiological Sciences	17		2018	465-473
Diamond-like nanocomposite: A novel promising carbon based thin film as antireflection and passivation coating for silicon solar cell	Sukhendu Jana, Sayan Das, Debasish De, Anup Mondal, Utpal Gangopadhyay	Mater. Res. Express	5		2018	025601
Effect of Substrate on the Structural, Optical and Electrical Properties of SnS Thin Films Grown by Thermal Evaporation Method	Arindam Basak, Arjyabha Hati, SK Taheruddin, Anup Mondal, Udai P Singh	Thin Solid Films	645		2018	97–101
Turn on ESIPT based chemosensor for histidine: Applications in urine analysis and live cell imaging	C. Das, B. Pakhira, A. L. Rheingold, S. K. Chattopadhyay	Inorg. Chim. Acta	482		2018	292-298

Mn(III) and Cu(II) complexes of 1-((3-(dimethylamino)propylimino)methyl)naphthalen-2-ol): Synthesis, characterization, catecholase and phenoxazinone synthase activity and DFT-TDDFT study	S. Sengupta, B. Naath Mongal, S. Das, T. K. Panda, T. K. Mandal, M. Fleck, S. K. Chattopadhyay, S. Naskar	J. Coord. Chem.	71	8	2018	1214-1233
Cu(II) complexes of a tridentate N,N,O-donor Schiff base of pyridoxal: Synthesis, X-ray structures, DNA-binding properties and catecholase activity	S. Mondal, M. Chakraborty, A. Mondal, B. Pakhira, A. J. Blake, E. Sinn, S. K. Chattopadhyay	New. J. Chem.	42	42	2018	9588-9597
Diffuse electrons of alkali metals (Li, Na, K) or diffuse electron pair of alkaline earth metals (Be, Mg, Ca) which predict larger second hyperpolarizability? A comprehensive study of M…NH$_3$ model compounds	K. Hatua, A. Mondal, P. Banerjee and P.K. Nandi	Chem. Phys. Lett.	692		2018	160 - 165
Hydrides, alkalides and halides of calcium metal chain: electronic structure and NLO property	P. Banerjee and P.K. Nandi	Struct. Chem.	29	3	2018	859 - 870
Static second hyperpolarizability of inverse sandwich compounds (M1-C5H5-M2) of alkali (M1=Li, Na, K) and alkaline earth metals (M2= Be, Mg, Ca)	K. Hatua, A. Mondal, P. Banerjee and P.K. Nandi	Phys. Chem. Chem. Phys.	20	19	2018	13331-1339
Electronic structure and large second-order non-linear optical property of COT derivatives - A theoretical exploration	R. Sinha Roy and and P.K. Nandi	Phys. Chem. Chem. Phys.	20	27	2018	18744 - 18755
Comparative studies on the properties of magnetron sputtered transparent conductive oxide thin films for the application in solar cell	Rajesh Das, Himadri Sekhar Das, Prasanta Kumar Nandi, Sajal Biring	Applied Physics A (2018) 124:631	124		2018	631 - 638
Dibenzo[a,c]phenazine based donor-acceptor (D-A) tetra branched molecules: Fine tuning of optical properties	S. Boxi, D. Jana, P. P. Parui, B. K. Ghorai	Chemistry Select	3		2018	6953-6959
Functionalized chitosan with self-assembly induced and subcellular localization-dependent fluorescence 'switch on' property	K. Mandal, D. Jana, B. K. Ghorai, N. R. Jana	New J. Chem	42		2018	5774-5784
Supramolecular Aggregates of Tetraphenylethene Cored AIEgen towards Mechanoluminescent and Electroluminescent Devices	3. S. Biswas, D. Jana, G. Kumar, S. Maji, P. Kundu, U. Ghorai, R. Giri, B. Das, N. Chattopadhyay, B. K. Ghorai, S. Acharya	ACS Appl. Mater. Interfaces	10		2018	14966–14977

Equation of motion approach for describing allowed transitions in Ne and Al3+ under classical and quantum plasmas	Chaudhuri, S. K., Mukherjee, P. K., Chaudhuri, R. K., and Chattopadhyay, S.	Physics of Plasmas	25		2018	42705
On the conversion XCN ↔ XNC via an efficient and economic perturbative wave function approach	Manna, S., Sinha Ray, S., Ghosh, P., Chaudhuri, R. K., and Chattopadhyay, S.	Molecular Physics	116		2018	2147-2161
Description of quasidegenerate electronic states exhibiting avoided crossing	Chattopadhyay, S.	Molecular Physics	116		2018	2343-2363
The effect of substituents on energy splitting in organic radicals: Quantitative cognizance from ab initio studies	Chattopadhyay, S.	Chemical Physics	513		2018	230-240
Green synthesis and swelling behavior of Agnanocomposite semi-IPN hydrogels & its drug delivery using Dolichos biflorus Linn	S. Basu, H. S. Samanta and J. Ganguly	Soft Materials	16	6	2018	7
Polysaccharides from Dolichos biforus Linn and Trachyspermum ammi Linn seeds: isolation, characterization and remarkable antimicrobial activity	S. Basu, M. Ghosh , R. K. Bhunia, J. Ganguly and B. K. Banik	Chemistry Central Journal	11	1	2017	
A dynamic sugar based bio-inspired, self-healing hydrogel exhibiting ESIPT	S. Maity, A. Chatterjee, N. Chakraborty and J. Ganguly	New Journal of Chemistry	42	8	2018	5946
Characterization of a fluorescent hydrogel synthesized using chitosan, polyvinyl alcohol and 9-anthraldehyde for the selective detection and discrimination of trace Fe 3+ and Fe 2+ in water for live-cell imaging	S. Maity, N. Parshi, C. Prodhan, K. Chaudhuri and J. Gangul	Carbohydrate Polymer	193	1	2018	119
Sugar-Based Self-Assembly of Hydrogel Nanotubes Manifesting ESIPT: Theoretical Insight and Application in Live Cell Imaging	S. Maity, A. Chatterjee, N. Chakraborty and J. Ganguly	ChemistrySelect	3	23	2018	6575
Eu modified Cu_2O thin films: Significant enhancement in efficiency of photoelectrochemical processes through suppression of charge carrier recombination	S. Shyamal, P. Hajra, H. Mandal, A. Bera, D. Sariket, A.K. Satpati, M.V. Malashchonak, A.V. Mazanik, O.V. Korolik, A.I. Kulak, E.V. Skorbe, A. Maity, E.A. Streltsov, C. Bhattacharya	Chemical Engineering Journal	335	5 (1 March 2018)	2018	676-684
Halide-Modulated Functionality of Wide Band Gap Zinc Oxide Semiconductor Nanoparticle	T.K. Maji, P. Kar, H. Mandal, C. Bhattacharya, D. Karmakar, S.K. Pal	Chemistry Select	3	23	2018	6382-6393

Improvement of photocatalytic activity of surfactant modified In$_2$O$_3$ towards environmental remediation	D. Sariket, S. Shyamal, P. Hajra, H. Mandal, A. Bera, A. Maity and C. Bhattacharya	New Journal of Chemistry	42	4	2018	2467-2475
Solvent Effects on the Photoelectrochemical Water Oxidation Behaviour of TiO$_2$ Semiconductors	A. Bera, P. Hajra, S. Shyamal, H. Mandal, D. Sariket, S. Kundu, S. Mandal, C. Bhattacharya	Materials Today: Proceedings	5	3	2018	10161-10168
Highly chemoselective hydrogenation of nitroarenes catalyzed by 3,6-di(pyridin-2-yl)-1,2,4,5-s-tetrazine capped‑silver nanoparticles in aqueous medium at room temperature	Shounak Ray, Papu Biswas	Catalysis Communication			2018	
Mesoporous silica supported samarium as recyclable heterogeneous catalyst for synthesis of 5-substituted tetrazole and 2-substituted benzothiazole	Partha Kumar Samanta, Rima Biswas, Trisha Das, Mahasweta Nandi, Bibhutosh Adhikary, Ryan M. Richards, Papu Biswas	Journal of Porous Materials			2018	
3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz)-capped silver nanoparticles (TzAgNPs) inhibit biofilm formation of Pseudomonas aeruginosa: a potential approach toward breaking the wall of biofilm through reactive oxygen species (ROS) generation	Poulomi Chakraborty, Sutapa Joardar, Shounak Ray, Papu Biswas, Debasish Maiti, Prosun Tribedi	Folica Microbiologica	63		2018	763-772
Mesoporous silica supported ytterbium as catalyst for synthesis of 1,2- disubstituted benzimidazoles and 2- substituted benzimidazoles	Partha Kumar Samanta, Rumeli Banerjee, Ryan M. Richards, Papu Biswas	Applied Organometallic Chemistry	32		2018	e4507
Visible light driven amide synthesis in water at room temperature from Thioacid and amine using CdS nanoparticles as heterogeneous Photocatalyst	Sudipto Das, Shounak Ray, Abhisek Brata Ghosh, Partha Kumar Samanta, Suvendu Samanta, Bibhutosh Adhikary, Papu Biswas	Applied Organometallic Chemistry	32		2018	e4198
Accessing Polysubstituted Quinazolines via Nickel Catalyzed Acceptorless Dehydrogenative Coupling	Seuli Parua, Rina Sikari, Suman Sinha, Gargi Chakraborty, Rakesh Mondal and Nanda D. Paul	*J. Org. Chem.*	83	18	2018	11154
Cu(II)-Complex of 1, 10-Phenanthroline Based Pincer as Efficient Catalyst for Oxidative Cross Dehydrogenative Coupling of Carboxylic Acids with Unactivated Alkane	Upasona Jash, Gargi Chakraborty, Suman Sinha, Rina Sikari, Rakesh Mondal and Nanda D. Paul	*Asian Journal of Organic Chemistry*	7	8	2018	1681

Title	Authors	Journal	Volume	Issue	Year	Pages
Redox Induced Interconversion and Ligand Centered Hemilability in NiII-Complexes of Redox Noninnocent Azo-aromatic Pincers	Siuli Das, Suman Sinha, Upasona Jash, Rina Sikari, Anannya Saha, Suman Barman, Paula Brandaõ, and Nanda D. Paul	*Inorg. Chem.*	57	10	2018	5830
[Co(MeTAA)] Metalloradical Catalytic Route to Ketenes via Carbonylation of Carbene Radicals	Andrei Chirila, Kaj M. van Vliet, Nanda D. Paul, and Bas de Bruin	*Eur. J. Inorg. Chem.*	20-21		2018	2251
Nickel Catalyzed Acceptorless Dehydrogenative Approach to Quinolines	Seuli Parua, Rina Sikari, Suman Sinha, Siuli Das, Gargi Chakraborty, and Nanda D. Paul	*Org. Biomol. Chem.*	16	2	2018	274
Recent advances on the optical properties of Eu^{3+} ion in nano-systems	Kar, A., Patra, A	Reviews in Nanoscience and Nanotechnology	18		2018	8047–8069
A new triazine based π-conjugated mesoporous 2D covalent organic framework: its in vitro anticancer activities	S. K. Das, S. Mishra, K. Manna, U. Kayal, S. Mahapatra, K. Das Saha, S. Dalapati, G. P. Das, A. A. Mostafa, A. Bhaumik	Chemical Communications	54	81	2018	11475-11478
Long-chain solid organic polysulfide cathode for high-capacity secondary lithium batteries	Q. (Ray) Zeng, Y. Lib, K.-H. Wu, N. Huang, S. Dalapati, B.-J. Su, L.-Y. Jang, I. R. Gentle, D. Jiang, D.-W. Wang	Energy Storage Materials	12		2018	30-36
Transition metal catalyzed asymmetric cyclopropanation via diazo decomposition: Ligand architecture defining stereoselectivity	Roy, A., Goswami, S.P., Sarkar, A.	Synthetic Communications	48	16	2018	2003-2036
Synthesis, structure, theoretical studies and electrochemistry of Ru(II)–N heterocyclic carbenes	Maity, L., Das Adhikary, S., Mondal, A., (...), Gosw	Inorganica Chimica Acta	479		2018	141-147
Sensing study of quinoxaline analogues with theoretical calculation, single-crystal X-ray structure and real application in commercial fruit	Chakraborty, S., Goswami, S., Quah, C.K., Pakhira	Royal Society Open Science	5	6	2018	180149
A concise treatment of pterins: Some recent synth	Goswami, S., Das, M.K., Sain, D., Goswami, B.	Pteridines	29	1	2018	15-41
Facile synthesis and thermoelectric properties of a	Mitra, M., Kargupta, K., Ganguly, S., Goswami, S.	Synthetic Metals	228		2017	25-31
2-Hydroxy-1-naphthaldehyde: A versatile buildin	Das, A.K., Goswami, S.	Sensors and Actuators, B: Chemical	245		2017	1062-1125
Discrimination of tabun mimic diethyl cyanophosphonate from sarin mimic diethyl chlorophosphate: Via Zn(II)-triggered photoinduced electron transfer-decoupled excited state intramolecular proton transfer processes	Manna, A., Jana, K., Guchhait, N., Goswami, S.	New Journal of Chemistry	41	14	2017	6661-6666
FRET based selective and ratiometric detection o	Manna, A., Sain, D., Guchhait, N., Goswami, S.	New Journal of Chemistry	41	23	2017	14266-14271
A novel sensor to estimate the prevalence of hypo	Ghoshal, K., Das, S., Aich, K., (...), Chowdhury, S.	Clinica Chimica Acta	458		2016	144-153
A remarkable case of pterin specific oxidative coupling: unequivocal synthesis of 6,7-alkoxypterins and 1,4-dioxanopterin with ceric ammonium nitrate	Das, M.K., Goswami, S., Quah, C.K., Fun, H.-K.	Tetrahedron Letters	57	30	2016	3277-3280

Title	Authors	Journal	Vol	Issue	Year	Pages
Relay recognition of F-and a nerve-agent mimic diethyl cyano-phosphonate in mixed aqueous media: Discrimination of diethyl cyanophosphonate and diethyl chlorophosphate by cyclization induced fluorescence enhancement	Das, A.K., Goswami, S., Quah, C.K., Fun, H.-K.	RSC Advances	6	22	2016	18711-18717
Single excited state intramolecular proton transfer (ESIPT) chemodosimeter based on rhodol for both Hg2+and OCl-: Ratiometric detection with live-cell imaging	Manna, A., Sarkar, D., Goswami, S., Quah, C.K., F	RSC Advances	6	62	2016	57417-57423
FRET-based fluorescence ratiometric and colorimetric sensor to discriminate Fe3+from Fe2+	Das, S., Aich, K., Goswami, S., Quah, C.K., Fun, F	New Journal of Chemistry	40	7	2016	6414-6420
Synthesis of 7-methyl-6-indolopterin and 7-methyl-6-indoloquinoxaline	Goswami, S., Das, M.K., Maity, A.C., Quah, C.K.,	Synthetic Communications	46	18	2016	1529-1536
Carbazole-benzimidazole based dyes for acid responsive ratiometric emissive switches	Aich, K., Das, S., Goswami, S., (...), Mondal, T.K.,	New Journal of Chemistry	40	8	2016	6907-6915
A highly sensitive fluorescent probe for detection of hydrazine in gas and solution phases based on the Gabriel mechanism and its bioimaging	Maji, R., Mahapatra, A.K., Maiti, K., (...), Quah, C	RSC Advances	6	75	2016	70855-70862
Effect of different surfactants and thicknesses on electrodeposited films of bismuth telluride and its thermoelectric performance	Kulsi, C., Mitra, M., Kargupta, K., (...), Banerjee, I	Materials Research Express	2	10	2015	106403
A remarkable ratiometric fluorescent chemodosimeter for very rapid detection of hydrogen sulfide in the vapour phase and living cells	Paul, S., Goswami, S., Das Mukhopadhyay, C.	New Journal of Chemistry	39	11	2015	8940-8947
Studies on crystal engineering networks of amido	Dey, S., Kumar, A., Sain, D., (...), Fun, H.-K., Isik,	Letters in Organic Chemistry	12	8	2015	584-590
ESIPT and CHEF based highly sensitive and sele	Das, S., Goswami, S., Aich, K., (...), Bhattacharyya	New Journal of Chemistry	39	11	2015	8582-8587
Cd2+ Triggered the FRET "ON": A New Molecu	Aich, K., Goswami, S., Das, S., (...), Quah, C.K., F	Inorganic Chemistry	54	15	2015	7309-7315
A differentially selective molecular probe for dete	Paul, S., Manna, A., Goswami, S.	Dalton Transactions	44	26	2015	11805-11810
Neighbouring group participation of thiol through aldehyde group assisted thiolysis of active ether: Ratiometric and vapor phase fast detection of hydrogen sulfide in mixed aqueous media	Das, A.K., Goswami, S., Quah, C.K., Fun, H.-K.	New Journal of Chemistry	39	7	2015	5669-5675
Ratiometric detection of hypochlorite applying the restriction to 2-way ESIPT: Simple design for "naked-eye" tap water analysis	Manna, A., Goswami, S.	New Journal of Chemistry	39	6	2015	4424-4429

Title	Authors	Journal	Volume	Issue	Year	Pages
A new visible-light-excitable ICT-CHEF-mediated fluorescence 'turn-on' probe for the selective detection of Cd2+ in a mixed aqueous system with live-cell imaging	Goswami, S., Aich, K., Das, S., (...), Sarkar, D., M	Dalton Transactions	44	12	2015	5763-5770
Fast and ratiometric "naked eye" detection of hydrazine for both solid and vapour phase sensing	Goswami, S., Paul, S., Manna, A.	New Journal of Chemistry	39	3	2015	2300-2305
Rapid detection of hydrazine in a naphthol-fused chromenyl loop and its effectiveness in human lung cancer cells: Tuning remarkable selectivity via the reaction altered pathway supported by theoretical studies	Goswami, S., Das, A.K., Saha, U., (...), Khanra, K.	Organic and Biomolecular Chemistry	13	7	2015	2134-2139
An azodye-rhodamine-based fluorescent and colorimetric probe specific for the detection of Pd2+in aqueous ethanolic solution: Synthesis, XRD characterization, computational studies and imaging in live cells	Mahapatra, A.K., Manna, S.K., Maiti, K., (...), Qua	Analyst	140	4	2015	1229-1236
Synthesis and anion sensing properties of novel N	Mahapatra, A.K., Maji, R., Maiti, K., (...), Quah, C	Sensors and Actuators, B: Chemical	207(Part A)		2015	878-886
Fluorescent chemodosimeter based on spirobenzo	Goswami, S., Das, S., Aich, K.	RSC Advances	5	37	2015	28996-29001
A new ICT and CHEF based visible light excitab	Aich, K., Goswami, S., Das, S., Mukhopadhyay, C.	RSC Advances	5	39	2015	31189-31194
A concentration dependent auto-relay-recognition by the same analyte: A dual fluorescence switch-on by hydrogen sulfide via Michael addition followed by reduction and staining for bio-activity	Das, A.K., Goswami, S., Dutta, G., (...), Khanra, K	Organic and Biomolecular Chemistry	14	2	2015	570-576
Reduced graphene oxide-polyaniline composites	Mitra, M., Kulsi, C., Chatterjee, K., (...), Banerjee,	RSC Advances	5	39	2015	31039-31048
ESIPT based Hg2+and fluoride chemosensor for	Goswami, S., Maity, S., Maity, A.C., (...), Bhattach	RSC Advances	5	8	2015	5735-5740
A triphenyl amine-based solvatofluorochromic dy	Goswami, S., Aich, K., Das, S., (...), Fun, H.-K., S	Chemistry - An Asian Journal	10	3	2015	694-700
Synergistic Combination of Pd and Co Catalyst Nanoparticles over Self-Designed MnO2 Structure: Green Synthetic Approach and Unprecedented Electrode Kinetics in Direct Ethanol Fuel Cell	De, A., Datta, J.	ACS Sustainable Chemistry and Engi	6	11	2018	13706-13718
Improved stability toward photo-electrochemical behavior of multi-chalcogenide CdSeS thin films	Hazra, M., Jana, A., Datta, J.	Applied Surface Science	454		2018	334-342
Cost effective and energy efficient catalytic support of Co and Ni in Pd matrix toward ethanol oxidation reaction: Product analysis and mechanistic interpretation	Mondal, A., De, A., Datta, J.	Applied Catalysis A: General	561		2018	87-95

Title	Authors	Journal	Vol	Issue	Year	Pages
Multi-elemental chalcogenide: N -BiCdSe films grown under controlled depth voltammetry: Improved photo-electrochemical behaviour toward energy conversion	Hazra, M., Chatterjee, S., Datta, J.	New Journal of Chemistry	42	12	2018	9837-9846
Periodic voltammetry as a successful technique for synthesizing CdSe semiconductor films for photo-electrochemical application	Jana, A., Hazra, M., Datta, J.	Journal of Solid State Electrochemistry	21	11	2017	3083-3091
Proactive role of carbon nanotube-polyaniline conjugate support for Pt nano-particles toward electro-catalysis of ethanol in fuel cell	De, A., Adhikary, R., Datta, J.	International Journal of Hydrogen Energy	42	40	2017	25316-25325
SPR effect of AgNPs decorated TiO2 in DSSC using TPMPI in the electrolyte: Approach towards low light trapping	Pal, A., Jana, A., Bhattacharya, S., Datta, J.	Electrochimica Acta	243		2017	33-43
CdTe nanoparticles decorated titania for dye sensitized solar cell: A novel co-sensitizer approach towards highly efficient energy conversion	Bhattacharya, S., Datta, J.	New Journal of Chemistry	41	16	2017	8663-8672
Optimal level of Au nanoparticles on Pd nanostructures providing remarkable electro-catalysis in direct ethanol fuel cell	Dutta, A., Mondal, A., Broekmann, P., Datta, J.	Journal of Power Sources	361		2017	276-284
Synthesis and characterization of CdS nanoparticles decorated TiO2matrix for an efficient N3 based dye sensitized solar cell (DSSC)	Bhattacharya, S., Pal, A., Jana, A., Datta, J.	Journal of Materials Science: Materials	27	12	2016	12438-12445
Sequential electro-deposition of Bi2 S3 /CdS films as co-sensitizer photoanodes for liquid junction solar cell	Jana, A., Hazra, P., Hazra, M., Datta, J.	Materials Chemistry and Physics	183		2016	173-180
Catalytic Intervention of MoO3 toward Ethanol Oxidation on PtPd Nanoparticles Decorated MoO3 -Polypyrrole Composite Support	De, A., Datta, J., Haldar, I., Biswas, M.	ACS Applied Materials and Interfaces	8	42	2016	28574-28584
A novel ruthenium sensitizer with -OMe substituted phenyl-terpyridine ligand for dye sensitized solar cells	Mongal, B.N., Bhattacharya, S., Sengupta, S., (...),	Solar Energy	134		2016	107-118
Voltammetric deposition of BiCdTe composite films with improved functional properties for photo-electrochemical cells	Hazra, P., Jana, A., Datta, J.	New Journal of Chemistry	40	4	2016	3094-3103

Energy conversion using Pt-Pd/C anode catalyst in direct 2-propanol fuel cell	Mahapatra, S.S., Datta, J.	Carbon - Science and Technology	8	2	2016	83-91
Ruthenium Complexes of Substituted Terpyridine and Pyridyl–quinoline Based Ligands with Ancillary Ligands: Synthesis, Characterization, Electrochemical Study and DFT Calculation	Mongal, B.N., Naskar, S., Pal, A., (...), Datta, J., Na	ChemistrySelect	1	12	2016	3276-3287
Synthesis, characterisation, electrochemical study and photovoltaic measurements of a new terpyridine and pyridine-quinoline based mixed chelate ruthenium dye	Mongal, B.N., Pal, A., Mandal, T.K., Datta, J., Nas	Polyhedron	102		2015	615-626
Tuning of platinum nano-particles by Au usage in their binary alloy for direct ethanol fuel cell: Controlled synthesis, electrode kinetics and mechanistic interpretation	Dutta, A., Mondal, A., Datta, J.	Journal of Power Sources	283		2015	104-114
Giant ooids in a Neoproterozoic carbonate shelf,	Thorie, A., Ananya Mukhopadhyay, Banerjee, T., Mazumdar. P.	Marine and Petroleum Geology	98	DOI: 10.1016/j.marpetg	2018	582-696
Stromatolites: a guideline for development of a carbonate ramp, Basantpur Formation, Neoproterozoic Simla Group in Lesser Himalaya, India.	Ananya Biswas, Banerjee, T.	Arabian Journal of Geosciences	9	8	2016	
A new 'superassemblage' model explaining proximal-to-distal and lateral facies changes in fluvial environments, based on the Proterozoic Sanjauli Formation (Lesser Himalaya, India).	Ananya Biswas, Mazumdar, P., van loon, A.J.	Journal of Paleogeography	5	4	2016	391-408
Comparative study of two relatives, MISS and Stromatolites: example from the Proterozoic Kunihar Formation, Simla Group, Lesser Himalaya.	Ananya Biswas, Thorie, A.	Arabian Journal of Geosciences	9	9	2016	
A Geospatial approach to determine Lake Depth and Configuration of Reingkhyongkine (Pukur Para) Lake, Rangamati Hill District, Bangladesh with Multi-Temporal Satellite data	BiswajitNath, Shukla Acharjee, Atin Kumar Mitra, DebabrataMajumder and Beniamino Murgante.	Journal of Environmental Accounting and Management	3	3	2015	243-258

Observation of short-term variations in Clay Minerals Ratio in 2015 Chile Great Earthquake (8.3 Mw) Using Landsat 8 OLI Data	Nath, B., Niu, Z., Mitra, A. K	Journal of Earth System Science	Accepted			
Development of tectonic fabrics in rocks: a theoretical and experimental investigation	Saikat Sinha, Atin Kumar Mitra, Nibir Mandal	5th Conference and workshop on Rock Deformation and Structures (RDS-V), 4th to 6th October, 2018, Department of Geology, University of Delhi, North Campus, 34, Chhatra Marg, Delhi-110007				68
Development of buckle folds in shear zones: a field and experimental study	Nandan Roy, Nandani Choudhury, Atin Kumar Mitra, Nibir Mandal	5th Conference and workshop on Rock Deformation and Structures (RDS-V), 4th to 6th October, 2018,				66
A study of bioerosion of belemnites and taphonomy of cephalopods from Kuldhar Member of Jurassic Jaisalmer Formation from Jaisalmer, Rajasthan	Paul, S, Gangopadhyay, T.K., Mal, U.	Journal of Geological Society Of India	91		2018	687-694
A Reappraisal of stratigraphy of Bagh Group of rocks in Dhar district, Madhya Pradesh with an outline of origin of nodularity of Nodular Limestone Formation	Ruidas, D.K., Paul, S., Gangopadhyay, T.K.	Journal of Geological Society Of India	92		2018	19-26
Bioeroded belemites and differently disposed stephanoceratid ammonites from Kuldhar Member Jaisalmer Formation, Rajasthan, India: A tool for specific palaeoenvironmental refinement	Paul, S., Gangopadhyay, T. K.	Geological Society Of America Annual Meeting	307		2017	11
Discovery of a juvenile mass mortality bed of freshwater viviparid gastropods in Deccan Intertrappean horizon of Barga Madhya Pradesh, India	Paul, S., Gangopadhyay, T. K.	Geological Society Of America Annual Meeting	272		2018	06
New finding of *Trigonioides* bivalve in the Deccan Intertraps of Madhya Pradesh, India and its stratigraphic implications	Paul, S., Gangopadhyay, T. K.	Geological Society Of America Annual Meeting	272		2018	12
A Self-Capacitance Grading Approach to suppress Winding Resonance in EHV Transformers under Oscillatory Terminal Disturbances	S. De, A. De and G. Bandyopadhyay	IET High Voltage Journal	DOI: 10.1049/ hve.2018 .5028	--	2018	1-6

Title	Authors	Publication	Vol/DOI	Issue	Year	Pages
Waveform Analysis Based Intelligent Fault Classifier with Novel Fault-Zone Segregations for Real-Time Application in Large Power Networks	S. Jana and A. De	Electric Power Components & Systems (Taylor & Francis)	DOI: 10.1080/15325008.2018.1510447	--	2018	1-14
A Novel Zone Division Approach for Power System Fault Detection Using ANN-Based Pattern Recognition Technique	S. Jana and A. De	Canadian Journal of Electrical and Computer Engineering (IEEE Canada Transaction)	40	4	2017	275-283
Demand response governed swarm intelligent grid scheduling framework for social welfare	S. Sen, S. Chanda, S. Sengupta, A. De	International Journal of Electrical Power and Energy Systems (Elsevier)	78	--	2016	783–792
Transmission Line Fault Pattern Recognition using Decision Tree based Smart Fault Classifier in a Large Power Network	S. Jana and A. De	IEEE Calcutta Conference (CALCON 2017)	December	--	2017	
Low Cost Surge Voltage Linearization Methods for Small Rating Power Transformers	S. De and A. De	IEEE Calcutta Conference (CALCON 2017)	December	--	2017	
Model Predictive Control for Power System Dynamic Security Enhancement	A. Panda, R. Mukherjee, A. De, S. Chakraborty	19th National Power System Conference (NPSC-2016)	December		2016	
An Intelligent Energy Management System to Optimise Demand Response in Smart Micro Grids	S. Chanda and A. De	2nd International Conference on Control, Instrumentation, energy and Communication, 2016 (CIEC16, IEEE)			2016	
Quality testing of staple yarn by an instrument with dual sensing and comparative study with capacitive sensing	Subhasish Roy, Anindita Sengupta, Surajit Sengupta	Indian Journal of Fibre and Textile Research(NISCAIR)	43	September	2018	269-276
Tracking of periodic reference signal: A Parameterized Finite Dimensional Repetitive Control approach	Ujjwal Mondal, Anindita Sengupta, Naiwrita Dey,	Transactions of the Institute of Measurement and Control(Sage)	40	13	2018	3640-3650
Design and development of an instrument for testing electrical insulation of technical textiles	Surajit Sengupta, Sanjoy Debnath, Anindita Sengupta	Indian Journal of Fibre and Textile Research(NISCAIR)	Accepted		2018	
Design and application of discrete wavelet packet transform based multiresolution controller for liquid level system	Rimi Paul, Anindita Sengupta	ISA Transaction(Elsevier)	71		2017	585-598
Performance Study of Optical sensor for parameterisation of staple yarn	Subhasis Roy, Anindita Sengupta, Surajit Sengupta	Measurement(Elsevier)	109		2017	394-407

Title	Authors	Publication	Vol	Issue	Year	Pages
Discrete Wavelet packet transform based controller for liquid level system and its performance analysis	Rimi Paul,Anindita Sengupta	Measurement(Elsevier)	97		2017	226-233
Fabric bending behaviour testing instrument for technical textiles	Surajit Sengupta, Sanjay Debnath, Anindita Sengupta	Measurement(Elsevier)	87		2016	205-215
Repetitive controller: an advanced servomechanism for periodic reference input	U Mondal, Anindita Sengupta, A Roy	International Journal of Dynamics and Control(Springer)	4	4	2016	428-437
A Comparison between Bio-Inspired and Music-Inspired Smith Predictor for Control of Time Delay Systems	Neelbrata Roy, Anindita Sengupta, Ashoke Sutradhar	IEEE Calcutta Conference (CALCON 2017)	December		2017	
Evolutionary Smith Predictor for Control of Time Delay Systems	Neelbrata Roy, Anindita Sengupta, Ashoke Sutradhar	Association for the Advancement of Modelling and Simulation Techniques in Enterprises MS 17			2017	
Design of bacterial foraging optimization algorithm based Adaptive Sliding Mode Controller for Inverted Pendulum	Rajeev Ranjan Pathak,Anindita Sengupta	Association for the Advancement of Modelling and Simulation Techniques in Enterprises MS 17			2017	
Parameter Selection Strategy for Robust Sliding Mode Controller and its implementation in real time system	A Sen,Anindita Sengupta	IEEE International conference on Power electronics, Intelligent Control and Energy Systems(ICPEICES-2016)			2016	
Position Control of a DC Motor System for Tracking Periodic Reference Inputs in a Data Driven Paradigm	U Mondal, Anindita Sengupta, S. khan, A. Paul, T Sil, A. Basu, R. Tiwari, S. Mukherjee	IEEE International conference on Intelligent Control Power and Instrumentation,(ICICPI 2016)			2016	
Performance study of Multiresolution PI Controller for Third Order System	Rimi Paul,Anindita Sengupta	IEEE First International conference on Control, Measurement and Instrumentation(CMI 16)			2016	
Design and Implementation of Flexible Over Current Relay On FPGA	S.Mitra, P. Chattopadhyay	International Journal of Electric Power and Energy Systems (Elsevier)	104		2018	797-806
Amorphous Graphene- Transformer Oil Nano Fluids with Superior Thermal and Insulating Properties	M. Bhunia, K. Panigrahi, S. Das, K. K. Chattopadhyay, P. Chattopadhyay	CARBON (Elsevier)	139		2018	1010-1019
Improved Classification by Non Iterative and Ensemble Classifiers in Motor Fault Diagnosis	P. Panigrahi, P. Chattopadhyay	Advances in Electrical and computer Engineering	18	1	2018	95-104

Title	Authors	Journal/Conference	DOI		Year	
A Cascaded Signal Processing Approach for Incipient Broken RotorBar Fault Detection	P. Panigrahi, P. Chattopadhyay	International Journal for Computation and Mathematics in Electrical and Electronic Engineering , COMPEL	doi.org/10.1108/COMPEL-11-2017-0476		2018	
Feature Engineering In Fault Diagnosis of Induction Motor	P. Panigrahi, D. Santra, P. Chattopadhyay	IEEE- CATCON 2017			2017	
Automatic Number Plate Recognition Using CNN Based Self Synthesized Feature Learning	M. Mondal, P. Mondal,N. Saha and P. Chattopadhyay	IEEE-CALCON 2017			2017	
Enhancement of thermal conductivity of transformer oil by exfoliated white graphene nanosheets	M. Bhunia, S. Das, S. Das, K. K. Chattopadhyay, P. Chattopadhyay	16th IEEE International Conference on Environment and Electrical Engineering (EEEIC), 2016			2016	
FPGA Friendly Fault Detection Technique for Inverter Fed Induction Motor	P. S. Panigrahy, S. Mitra, P. Konar, P. Chattopadhyay	2nd International Conference on Control, Instrumentation, Energy & Communication (CIEC-2016)			2016	
Condition Monitoring of Electrical Equipment using Thermal Image Processing	T. Dutta, P. Chattopadhya	IEEE First International Conference on Control, Measurement and Instrumentation (CMI-2016)			2016	
Application of Data Mining in Fault Diagnosis of Induction Motor	P. Panigrahi, P. Konar, P. Chattopadhyay	IEEE First International Conference on Control, Measurement and Instrumentation (CMI-2016)			2016	
Quasi 1D CNN Based Fault Diagnosis of Induction motor	R. Mukhapadhyay, P. Panigrahi, G. Misra, P. chattopadhyay	IEEE- EPECS, 2018			2018	
A Smart Approach for Development of an Adaptive Over Current Relay	S. Mitra, G. Misra, P. Chattopadhyay	IEEE-EAIT, 2018			2018	
Study of Nonlinear Phenomena in a Free-Running Current Controlled C'uk Converter	P. Chaudhuri and S. Parui	2016 First International Conference on Advancement of Computer Communication and Electrical Technology				
A Comparative Study on Oscillation in C'uk Converter Under Non-Autonomous and Autonomous Modes of Operation	S. Parui, B. Basak and P. Chaudhury	International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT' 2017)				
Dynamical Behavior of Cuk Converter fed from a Photovoltaic Source	A. Bandyopadhyay and S. Parui	2017 IEEE Calcutta Conference (CALCON)				
Exploration of Nonlinear Behaviour in V2 Controlled Buck Converter	S. Saha and S. Parui	IEEE 3rd International Conference for Convergence in Technology (I2CT) 2018				

Bifurcation Behavior of Photovoltaic Panel fed C'uk Converter Connected to Different Types of Loads	A. Bandyopadhyay and S. Parui	2018 International Symposium on Devices, Circuits and Systems (ISDCS)				
Torque ripple Modeling and Minimization for Interior PMSM Considering Magnetic Saturation	Chunyan Lai, G. Feng, K. L. V. Iyer, K. Mukherjee, and N. C. Kar	IEEE Transactions on Power Electronics	33	3	2018	2417-2429
Investigation of a Six-phase Interior Permanent Magnet Synchronous Machine for Integrated Charging and Propulsion in EVs	K.L.V. Iyer, C. Lai, S. Mukundan, H. Dhulipati, K. Mukherjee, and N. C. Kar	SAE International Journal of Alternative Powertrains	https://doi.org/10.4271/08-07-02-0006		2018	
Generic Algorithm-Based Current Optimization for Torque Ripple Reduction of Interior PMSMs	Chunyan Lai, G. Feng, K. L. V. Iyer, K. Mukherjee, and N. C. Kar	IEEE Transactions on Industry Applications	53	5	2017	4493-4503
Online PMSM Magnet Flux-Linkage Estimation for Rotor Magnet Condition Monitoring Using Measured Speed Harmonics	Guodong Feng, C. Lai, K. Mukherjee, N. C. Kar	IEEE Transactions on Industry Applications	53	3	2017	2786-2794
Torque Ripple Minimization for Interior PMSM with Consideration of Magnetic Saturation Incorporating Online Parameter Identification	Chunyan Lai, G. Feng, K. Mukherjee, V. Loukanov, and N. Kar	IEEE Transactions on Magnetics	53	6	2017	Article Sequence No. 8105904
Investigations of the Influence of PMSM Parameter Variations in Optimal Stator Current Design for Torque Ripple Minimization	Chunyan Lai, G. Feng, K. Mukherjee, and N. C. Kar	IEEE Transactions on Energy Conversion	32	3	2017	1052-1062
Comparative Performance Analysis of 3-phase IPMSM Rotor Configurations with Dampers for Integrated Charging Application in EV	S. Mukundan, H. Dhulipati, K. L. V. Iyer, C. Lai, K. Mukherjee, and N. C. Kar	Proceedings of the 43rd IEEE Annual Conference of Industrial Electronics Society, IECON 2017, Beijing, China			2017	1856-1861
Accurate inductances and magnet flux linkage estimation in interior PMSM employing speed harmonic measurements	Guodong Feng, C. Lai, K. Mukherjee, N. C. Kar	Proceedings of the 43rd IEEE Annual Conference of Industrial Electronics Society, IECON 2017, Beijing, China			2017	1771-1776
A novel hybrid approach towards drive-cycle based design and optimization of a fractional slot concentrated winding SPMSM for BEVs	P. Korta, K. L. V. Iyer, C. Lai, K. Mukherjee, J. Tjong, and N. C. Kar	Proceedings of the IEEE Energy Conversion Congress and Exposition, Ohio, USA			2017	2086-2092

Comparison of Inductance Determination Methods of PMSMs for EV Application	S. Mukundan, H. Dhulipati, K. L. V. Iyer, N. C. Kar and K. Mukherjee	Proceedings of the 30th IEEE Canadian Conference on Electrical and Computer Engineering, Windsor, Canada			2017	1-4
Investigation of Integrated Charging and Discharging Incorporating Interior Permanent Magnet Machine with Damper Bars for Electric Vehicles	Xiaomin Lu, K.L.V. Iyer, Kaushik Mukherjee and N. C. Kar	IEEE Transactions on Energy Conversion	31	1	2016	260-269
Current Injection-Based Online Parameter and VSI Nonlinearity Estimation for PMSM Drives Using Current and Voltage DC Components	Guodong Feng, Chunyan Lai, Kaushik Mukherjee and N.C. Kar	IEEE Transactions on Transportation Electrification	2	2	2016	119-128
Design and Testing of a Multi-port Sustainable DC Fast-charging System for Electric Vehicles	Xiaomin Lu, K. L. V. Iyer, Chunyan Lai, Kaushik Mukherjee and N. C. Kar	Journal of Electric Power Components and Systems (Taylor & Francis)	44	14	2016	1576 - 1587
Design, Modeling and Software Implementation of a Current-Perturbed Maximum Power Point Tracking Control in a DC-DC Boost Converter for Grid-Connected Solar Photovoltaic Applications	Abhisek Maiti, Kaushik Mukherjee and Prasid Syam	Proceedings of the 2016 IEEE First International Conference on Control, Measurement and Instrumentation (CMI 2016), Kolkata, India			2016	paper ID 30
Speed Control of A Grid Connected Doubly-Fed Induction Generator System for Maximum Power Point Tracking with Improved Input Power Factor Employing Matrix Converter as a Slip Power Exchanger	Abhinandan Basak, Kaushik Mukherjee and Prasid Syam	Proceedings of the 2016 IEEE First International Conference on Control, Measurement and Instrumentation (CMI 2016), Kolkata, India			2016	paper ID 31
Design Methodology, Control and Performance of a Three-Phase Grid-Tie PV Inverter under Maximum Power Point Tracking	Abhisek Maiti, Kaushik Mukherjee and Prasid Syam	Proceedings of the 2016 IEEE Second International Conference on Control, Instrumentation, Energy & Communication (CIEC-2016), Kolkata, India			2016	paper ID 73
Dynamic Adjustments of the D-Q axes Reference Voltage Limits during Flux Weakening and Maximum Torque Per Ampere Control of an IPMSM Drive for an EV Application	Tanmoy Dey, Kaushik Mukherjee and Prasid Syam	Proceedings of the 2016 IEEE Second International Conference on Control, Instrumentation, Energy & Communication (CIEC-2016), Kolkata, India			2016	paper ID 74

Effect of Matrix Converter on the Speed Control Scheme of a Grid Connected Doubly-Fed Induction Generator System	Abhinandan Basak, Kaushik Mukherjee and Prasid Syam	Proceedings of the 2016 IEEE Second International Conference on Control, Instrumentation, Energy & Communication (CIEC-2016), Kolkata, India			2016	paper ID 59
Investigation of 6-Phase Surface PM Machines with Concentrated Windings for Reduction in Space Harmonics, Leakage Inductance and Magnet Loss in Direct-Drive EV	H. Dhulipati, K. L. V. Iyer, S. Mukundan, K. Mukherjee, J. Tjong, and N. C. Kar	Proceedings of the 22nd IEEE International Conference on Electrical Machines, ICEM 2016 Switzerland			2016	811-817
Response Surface Methodology based optimization of surface PM Machine Incorporating Stator Slotting and PM Sizing Effects to Extend the Operating Limits for Direct-drive EV Application	S. Mukundan, K. L. V. Iyer, H. Dhulipati, K. Mukherjee, J. Tjong, and N. C. Kar	Proceedings of the 22nd IEEE International Conference on Electrical Machines, ICEM 2016 Switzerland			2016	2045-2051
Design Approach Incorporating MTPA and Winding Function Theories for On-board Direct-Drive Surface PM Machines with Concentrated Windings in EVs	K. L. V. Iyer, H. Dhulipati, S. Mukundan, K. Mukherjee, J. Tjong, and N. C. Kar	Proceedings of the 22nd IEEE International Conference on Electrical Machines, ICEM 2016 Switzerland			2016	1499-1505
On-board Direct-Drive Surface Permanent Magnet Synchronous Machine with Fractional-Slot Concentrated Windings for Electric Vehicles	K. L. V. Iyer, B. Minaker, K. Mukherjee, J. Tjong, and N. C. Kar	Proceedings of the 2016 IEEE Canadian Conference on Electrical & Computer Engineering, Vancouver, Canada			2016	1-6
An ant colony system based control of shunt capacitor banks for bulk electricity consumers	Arijit Baral, Parna Sarkar, P.Syam, K. Das(Bhattacharya)	Journal of Applied Soft Computing, Elsevier,	Volume 43,		2016	520–534
A Review of Inverter Topologies for Single-Phase Grid-Connected Photovoltaic Systems	Joydip Jana, Konika Das(Bhattacharya), Hiranmay Saha	Journal Of Renewable & Sustainable Energy Reviews, Elsevier	Volume 72		2017	1256–1270
Estimation of Curve tracing Time in Supercapacitor based PV Characterization"	Sudipta BasuPal, Dipankar Mukherhee, K.Das(Bhattacharya)	Journal of The Institution of Engineers (India): Series B, Springer Publication			2017	385-391
Electrical Characterisation of PV Modules Employing Supercapacitors---A Scalable Method for Field Metrology	Sudipta BasuPal, K.Das(Bhattacharya), D.Paul, Dipankar Mukherhee,	Renewable Energy and Power Quality Journal	ISSN2172-038,	XNo15	2017	
Interfacing Solar PV Power Plant with Rural Distribution Grid: Challenges and Possible Solutions	Tathagata Sarkar; AnjanKumar, Dan; Saikat Ghosh; Konika Das Bhattacharya; Hiranmay Saha;	International Journal Of Sustainable Energy,Taylor and Fransis,UK			2017	

Energy Non Availability in Distribution Grid with Heavy Penetration of	Tathagata Sarkar, AnkurBhattacharjee, Kanak Mukhopadhyay, Konika Das Bhattacharya	Sustainable Energy A section of Energies .	ISSN 1996-1073		2018	
Design and development of high efficiency five stage battery charge controller with improved MPPT performance for Solar PV Systems	Joydip Jana, Hiranmay Samanta, Konika Das Bhattacharya, Hiranmay Saha,	International Journal of Renewable Energy Research-IJRER	Vol.8, No.2		2018	
A Smart Technology Enabled Knowledge Society- interfaced with the Industry Academia Innovation Platform	Joydip Jana	IEEE R10 Humanitarian Technologies Conference, Dhaka, Bangladesh,			2017	
A Reliability estimate for a Roof-Top PV during Early Monsoon in Eastern India	S. BasuPal, D.mukherjee, K.Das(Bhattacharya)	AUPEC 2017, Melbourne, Australia			2017	
Trends and Challenges of Next Generation Grid-Connected Photo-Voltaic Inverter	J.Jana, K.Das(Bhattacharya), H.Saha	AUPEC 2017, Melbourne, Australia			2017	
A Four Stage Battery Charge Controller Working on a Novel Maximum Power Point Tracking Based Algorithm for Solar PV System",	H.Samanta, J.Jana, K.Das(Bhattacharya), H.Saha	21st Century Energy Needs Materials, Systems and Applications (ICTFCEN) , IIT KGP,			2016	
A Three-Layer Supply Chain EPQ Model for Price- and Stock-Dependent Stochastic Demand with Imperfect Item Under Rework	Shilpi Pal, G. S. Mahapatra, G.P.Samanta	Journal of Uncertainty Analysis and Applications	DOI 10.1186/ s40467-016-0050-3		2016	
On the stability and Hopf-bifurcation of a multidelayed competitive population system affected by toxic substances with imprecise biological parameters	D. Jana, P. Dolai, A.K.Pal, G.P.Samanta	Modeling Earth Systems and Environment	DOI 10.1007/ s40808-016-0156-0		2016	1 - 16
Analysis of the Dynamics of a Tumor-Immune System with Chemotherapy and Immunotherapy and Quadratic Optimal Control	Swarnali Sharma, G.P.Samanta	Differential Equations and Dynamical Systems	Vol. 24	2	2016	149–171
Stability and bionomic analysis of fuzzy prey-predator harvesting model in presence of toxicity: A dynamic approach	D. Pal, G. S. Mahapatra, G.P.Samanta	Bulletin of Mathematical Biology	Vol. 78	7	2016	1493–1519
Dynamics of a food chain model with herd behaviour of the prey	S. P. Bera , A. Maiti, G.P.Samanta	Modeling Earth Systems and Environment	DOI 10.1007/ s40808-016-0189-4		2016	1 - 9

Title	Authors	Journal	Vol	Issue	Year	Pages
Effects of fuzzy harvesting on logistic growth models for uncertain ecological parameter	D.Pal, G.S. Mahapatra, G.P.Samanta	Journal of Interdiscipli-nary Mathematics	Vol. 19	3	2016	433-451
Deterministic and stochastic analysis of a prey–predator model with herd behaviour in both	Alakes Maiti, Prosenjit Sen, G.P.Samanta	SYSTEMS SCIENCE & CONTROL ENGINEERING	Vol. 4		2016	259-269
A delayed epidemic model of diseases through droplet infection and direct contact with saturation incidence and pulse vaccination	G.P.Samanta, Prosenjit Sen & Alakes Maiti	SYSTEMS SCIENCE & CONTROL ENGINEERING	Vol. 4		2016	320-333
A Predator-Prey System with Herd Behaviour and Strong Allee Effect	Alakes Maiti, Prosenjit Sen, Debasis Manna, G.P.Samanta	Nonlinear Dynamics and Systems Theory	Vol. 16	1	2016	86–101
Ecological dynamics of age selective harvesting of fish population: Maximum sustainable yield and its control strategy	Debaldev Jana , Rashmi Agrawal, Ranjit Kumar Upadhyay, G.P.Samanta	Chaos, Solitons and Fractals	Vol. 93		2016	111–122
Stochastic Analysis of a Prey-Predator Model with Herd Behavior of Prey	S.P.Bera, A.Maiti, G.P.Samanta	Nonlinear Analysis: Modelling and Control	Vol.21	3	2016	345-361
A nonlinear irreversible investment model with von-bertalanffy law of growth	Debasis Manna, G.P.Samanta	International Journal of Mathematics and Statistics	Vol. 17	1	2016	67-90
Analysis of the dynamics of thin isotropic cylindrical shell in asymptotic approach	Aritra Bhattacharyya and B. Mukhopadhyay	Applied Mathematical Modelling	40	10	2016	5324-5334
Rheological consequence of the behavior of thermoviscoelastic subtstances in the presence of a point heat source	M.Mondal and B. Mukhopadhyay	Journal of Engineering Physics and Thermophys	89	1	2016	280-288
Erratum of the paper entitled, "Analysis of the dynamics of thin isotropic cylindrical shell in asymptotic approach" [Applied Mathematical Modelling	Aritra Bhattacharyya and B. Mukhopadhyay	Applied Mathematical Modelling	40	10	2016	8842-8846
Theory of fractional ordered thermoelastic diffussion	S. Shaw and B. Mukhopadhyay	European Physical Journal Plus	131	6	2016	183
A thermodynamic framework for th evaluation of microdameges in functionally graded medium	S. Shaw and B. Mukhopadhyay	Journal of Thermal Stresses	39	10	2016	1268-1276
Impacts of invasive species on the sustainable use of native exploited species	P. Paul, T.K. Kar	Ecological Modelling	340		2016	106-115
Ecotourism and fishing in a common fishing ground of two interacting species	P. Paul, T.K. Kar, A.Ghorai	Ecological Modelling	328		2016	1--13
Complex dynamics of an SIR epidemic model with saturated incidence rate and treatment	S. Jana, S.K. Nandi, T.K. Kar	Acta Biotheoretica	64		2016	65-84

Title	Authors	Journal	Vol	Issue	Year	Pages
Optimal control and stability analysis of an epidemic model with population dispersal	S.Jana, P. halder, T.K. Kar	Chaos, Solitons and Fractals	83		2016	67-81
Complex dynamics of an epidemic model with vaccination and treatment control	S. Jana, P. Halder, T.K. Kar	Int. J. Dynamics and Control	4	3	2016	318-329
Correspondence of F-essence with Holographic and New Agegraphic Dark Energy Models	Sayani Maity and Ujjal Debnath	International Journal of Theoretical Physics	55	2	2016	698 - 705
Study of Entropy-Corrected Logarithmic and Power-Law Versions of Pilgrim Dark Energy	Pameli Saha and Ujjal Debnath	International Journal of Theoretical Physics	55	3	2016	1285-1299
Effects of Thermal Fluctuations on the Thermodynamics of Modified Hayward Black Hole	Behnam Pourhassan, Mir Faizal and Ujjal Debnath	European Physical Journal C	76		2016	145 (1-6)
Co-existence of Modified Chaplygin Gas and other Dark Energies in the Framework of Fractal Universe	Sayani Maity and Ujjal Debnath	International Journal of Theoretical Physics	55	5	2016	2668-2681
Entropy Bound of Horizons for Accelerating, Rotating and Charged Plebanski-Demianski Black Hole	Ujjal Debnath	Annals of Physics	372		2016	449-456
Study of Tachyon Warm Intermediate and Logamediate Inflationary Universe Model from Loop Quantum Cosmological Perspective	Jyotirmay Das Mandal and Ujjal Debnath	Communications in Theoretical Physics	66	2	2016	256-262
Reconstructions of f(T) Gravity from Entropy Corrected Holographic and New Agegraphic Dark Energy Models in Power-law and Logarithmic Versions	Pameli Saha and Ujjal Debnath	European Physical Journal C	76		2016	491(1-14)
Correspondence between Yang-Mills condensate dark energy with various kinds of scalar field models of dark energy	Pameli Saha and Ujjal Debnath	Communications in Theoretical Physics	66	5	2016	579-588
Dynamics of Particles Around a Regular Black Hole with Non-linear Electrodynamics	Abdul Jawad, Farhad Ali , Mubasher Jamil and Ujjal Debnath	Communications in Theoretical Physics	66	5	2016	509-516
Multi-objective structural design problem optimization using parameterized t-norm based fuzzy optimization programming technique	Samir Dey,Tapan Kumar Roy	Journal of Intelligent & Fuzzy Systems	30	2	2016	971-982

Title	Authors	Journal	Vol	Issue	Year	Pages
A new approach to solve fully fuzzy transportation problem using triangular fuzzy number	Dipankar Chakraborty,Dipak Kumar Jana,Tapan Kumar Roy	International Journal of Operational Research	26	2	2016	153 - 179
Intuitionistic fuzzy T-sets based optimization technique for production-distribution planning in supply chain management	Arindam Garai,Palash Mandal,Tapan Kumar Roy	OPSEARCH	53	4	2016	950–975
Expected value of intuitionistic fuzzy number and its application to solve multi-objective multi-item solid transportation problem for damageable items in intuitionistic fuzzy environment	Dipankar Chakraborty,Dipak Kumar Jana, Tapan Kumar Roy	Journal of Intelligent & Fuzzy Systems	30	2	2016	1109-1122
Optimization of Industrial Wastewater Treatment Using Intuitionistic Fuzzy Goal Geometric Programming Problem	Payel Ghosh, Tapan Kumar Roy,Chanchal Majumder	Fuzzy Information and Engineering	8	3	2016	329-343
Concavity of maximum entropy through modified Burg's entropy subject to its prescribed mean.	Amritansu Ray, Sanat Kumar Majumder	International Journal of Mathematics in Operational Research	8	4	2016	393-405
A Note on Burg's Modified Entropy in Statistical Mechanics.	Amritansu Ray, Sanat Kumar Majumder	Mathematic s(MDPI)	4	1	2016	10
A new contractive mapping principal in fuzzy metric spaces	Saha, P., Choudhury, B. S., Das, P.	Bolletino dell Unione Matematica Italiana	8	4	2016	287-296
Weak Coupled Coincidence Point Results Having a Partially Ordering in Fuzzy Metric Spaces	Saha, P., Choudhury, B.S., Das, P.	Fuzzy Information of Engineering	8	2	2016	199-216
A hyers-ulam-rassias stability result for functional equations in intuitionistic fuzzy banach spaces	Kayal, N.C., Samanta, T.K., Saha, P., Choudhury, B.S.	Iranian Journal of Fuzzy Systems	13	5	2016	87-96
End Point Results in Metric Spaces Endowed with a Graph	Choudhury, B. S., Metiya, N., Debnath, P.	Journal of Mathematics	2016		2016	ID 9130107, 7 pages
Coupled coincidence point results for probabilistic phi-contractions	Choudhury, Binayak S.; Das, Pradyut; Saha, P.	Cogent Mathematics	3		2016	Article Number: UN SP 1204069, 12 pages
Best proximity results for proximal contractions in metric spaces endowed with a graph	Choudhury, Binayak S.; Metiya, Nikhilesh	Cogent Mathematics	3		2016	Article Number: UN SP 1252455, 9 pages
A new contractive mapping principal in fuzzy metric spaces	Saha, P., Choudhury, B. S., Das, P.	Bolletino dell Unione Matematica Italiana	8	4	2016	287-296

Kannan-type cyclic contraction results in 2-Menger space	Choudhury, B. S., Bhandari, S. K.	Mathematica Bohemica	141	1	2016	37-58
Best proximity point results in set-valued analysis	Choudhury, B. S., Maity, P., Metiya, N.	Nonlinear Analysis: Modelling and Control	21	3	2016	293-305
A Bidirectional Teleportation Protocol for Arbitrary Two-qubit State Under the Supervision of a Third Party	Choudhury, B.S., Dhara, A.	International Journal of Theoretical Physics	55	4	2016	2275-2285
A probabilistic quantum communication protocol using mixed entangled channel	Choudhury, B.S., Dhara, A.	Physics of Particles and Nuclei Letters	13	3	2016	336-341
An entanglement concentration protocol for cluster states using CNOT gate operation	Choudhury, B.S., Dhara, A.	Pramana-Journal of Physics	86	5	2016	973-983
Weak Coupled Coincidence Point Results Having a Partially Ordering in Fuzzy Metric Spaces	Saha, P., Choudhury, B.S., Das, P.	Fuzzy Information of Engineering	8	2	2016	199-216
P-Cyclic C-contraction result in menger spaces using a control function	Choudhury, B.S., Bhandari, S.K.	Demonstratio Mathematica	49	2	2016	213-223
Coupled coincidence point results in partially ordered generalized fuzzy metric spaces with applications to integral equations	Choudhury, Binayak S.; Das, Pradyut	Mathematical Sciences	10	1_2	2016	23-32
Best Proximity Point Results in Generalized Metric Spaces	Choudhury, B.S., Maity, P.	Vietnam Journal of mathematics	44	2	2016	339-349
Teleportation Protocol Of Three-Qubit State Using Four-Qubit Quantum Channels	Choudhury, B.S., Dhara, A.	International Journal of Theoretical Physics	55	7	2016	3393-3399
Coupled Meir–Keeler Type Contraction in Metric Spaces with an Application to Partial Metric Spaces	Choudhury, B.S., Bandyopadhyay, C.	Vietnam Journal of mathematics	44	3	2016	623-636
A hyers-ulam-rassias stability result for functional equations in intuitionistic fuzzy banach spaces	Kayal, N.C., Samanta, T.K., Saha, P., Choudhury, B.S.	Iranian Journal of Fuzzy Systems	13	5	2016	87-96
Best proximity results: optimization by approximate solutions	Choudhury, B.S., Metiya, N., Maniu, G., Konar, P.	Fixed Point Theory and Applications	2016	1	2016	Article ID 79, 13 pages
Fixed set of set valued mappings with set valued domain in terms of start set on a metric space with a graph	Debnath, P., Choudhury, B.S., Neog, M.	Fixed Point Theory and Applications	2017	1	2016	Article ID 5, 8 pages
Probabilistically teleporting arbitrary two-qubit states	Choudhury, B.S., Dhara, A.	Quantum information Processing	15	12	2016	5063-5071

Chaos to order: effect of random predation in a holling type IV tri-trophic food chain system with closure terms	Pritha Das, Partha Ghosh and Debasis Mukherjee	Int. J. Biomathematics, World Scientific	9	5	2016	18
Impulsive Effect on Tri-Trophic Food Chain Model with Mixed Functional Responses under Seasonal Perturbations	Pritha Das, Chandrima Banerjee	Differential Equations and Dynamical Systems, Springer	26	1-3	2016	157-176
Persistence and stability of a seasonally perturbed three species stochastic model of Salmonoid aquaculture	Pritha Das, Partha Ghosh and Debashis Mukherjee	Differential Equations and Dynamical Systems, Springer	10.1007/ s12591- 016- 0283-0	-	2016	1-17
Impulsive Control on Seasonally Perturbed General Holling Type Two-Prey One-Predator Model	Pritha Das, Chandrima Banerjee	Discrete Dynamics in Nature and Society, Hindawi	Article ID 9268257	-	2016	20
Stability, bifurcations and synchronization in a delayed neural network model of n-identical neurons	Pritha Das, Amitava Kundu and A. B. Roy	Mathematics and Computers in Simulation, Elsevier.	121	-	2016	12-33
Shrimp Fry (meen) Farmers of Sundarban: A Tale of Ecological Damage and Economic Hardship	Pritha Das,Souvonic Roy	Ajman 4th Int. Env. Conf. UAE, Int. J. Agri. & Food Res.	5	2	2016	28-41
Dynamics of a Delayed Competitive System Affected by Toxic Substances with Imprecise Biological Parameters	A.K.Pal, P.Dolai, G.P.Samanta	Filomat	Vol. 31	16	2017	5271–5293
Degree of prey refuges: Control the competition among prey and foraging ability of predator	Debaldev Jana , Aniket Banerjee, G.P.Samanta	Chaos, Solitons and Fractals	Vol. 104		2017	350–362
Analysis of a hand-foot-mouth disease model, International Journal of Biomathematics	Swarnali Sharma, G.P.Samanta	International Journal of Biomathematics	Vol. 10	2	2017	1750016 (47 pages)
Parameter uncertainty in biomathematical model described by one-prey two-predator system with mutualism	D.Pal, G.S. Mahapatra, G.P.Samanta	International Journal of Biomathematics	Vol. 10	6	2017	1750082 (36 pages)
Selective harvesting of two competing fish species in the presence of toxicity with time delay	D. Pal, G.S.Mahapatra, G.P.Samanta	Applied Mathematics and Computation	Vol. 313		2017	74-93
A Michaelis–Menten type food chain model with strong Allee effect on the prey	Debasis Manna, Alakes Maiti, G.P.Samanta	Applied Mathematics and Computation	Vol. 311		2017	390-409

DYNAMICS OF A SYMBIOTIC MODEL WITH HERD BEHAVIOUR AND STRONG ALLEE EFFECT	Prosenjit Sen, Alakes Maiti, G.P.Samanta	Neural, Parallel, and Scientific Computations	Vol. 25		2017	149-164
Analysis of a mathematical model of periodically pulsed chemotherapy treatment	G.P.Samanta, Ricardo Gómez Aíza and Swarnali Sharma	International Journal of Dynamics and Control	Vol.5	3	2017	842 - 857
Rayliegh surface wave propagation in orthotropic thermoelastic solid under three phase lag model	S. Biswas, B. Mukhopadhyay and S. Shaw	Journal of Thermal Stresses	40	4	2017	403-419
Thermal shock response in magneto thermoelastic orthotropic medium with three phase lag model	S. Biswas, B. Mukhopadhyay and S. Shaw	Journal of electromagnetic waves and applications	31	9	2017	879-897
A discontinuity analysis of generalized thermoelasticity theory with memory-dependent derivatives	S. Shaw and B. Mukhopadhyay	Acta Mechanica	228	7	2017	2675-2689
Global dynamics of a SEIRS epidemic model with saturated disease transmission rate and vaccination control.	S. Jana, P. Halder, S.K. Nandi, T.K. Kar	Int. J. Applied and Comput. Math.	3	1	2017	43-64
Optimal harvesting of a prey-predator model with variable carrying capacity	C. Ganguli, T.K. Kar	International Journal of Biomathematics	10	5	2017	1750069
Global dynamics of a tritrophic food chain model	U. Pahari., C. Ganguli, T.K. Kar, U. Das	International Journal of Ecological economics and statistics	38	1	2017	
Mathematical analysis of an epidemic model with isolation and optimal controls	S. Jana, P. Haldar, T.K. Kar	International Journal of Computer Mathematics	94	7	2017	1318-1336
Biological conservation through marine protected areas in the presence of alternative stable states	B. Ghosh, D. Pal, T.K. Kar, J.C.Valverde	Mathematical Biosciences	286		2017	49-57
Analysing Hessence Intermediate and Logamediate Universe in Loop Quantum Cosmological Background	Jyotirmay Das Mandal and Ujjal Debnath	International Journal of Theoretical Physics	56	6	2017	1771-1783
A Note on Equivalence Among Various Scalar Field Models of Dark Energies	Jyotirmay Das Mandal and Ujjal Debnath	International Journal of Theoretical Physics	56	8	2017	2413-2422
Dynamical System Analysis of Interacting Hessence Dark Energy in f(T) Gravity	Jyotirmay Das Mandal and Ujjal Debnath	Advances in High Energy Physics	2017		2017	2864784 (1-14)
Some Operations and Properties of Neutrosophic Cubic Soft Set	S. Pramanik, S. Dalapati, S. Alam and TK Roy	Global Journal of Research and Review	4	2	2017	1-8
Neutrosophic Cubic MCGDM Method Based on Similarity Measure	S. Pramanik, S. Dalapati, S. Alam, TK Roy and F. Smarandache	Neutrosophic Sets and Systems	16	NA	2017	44-56
TODIM Method for Group Decision Making under Bipolar Neutrosophic Set Environment	S. Pramanik, S. Dalapati, S. Alam and TK Roy,	New Trends in Neutrosophic Theory and Applications	2	NA	2017	1-16

Title	Authors	Journal	Vol	Issue	Year	Pages
NC-TODIM-Based MAGDM under a Neutrosophic Cubic Set Environment	S. Pramanik, S. Dalapati, S. Alam and TK Roy,	Information (switzerland)	8	4	2017	1-21
Mathematical model of glucose-insulin regulatory system on diabetes mellitus in fuzzy and crisp environment	A. Mahata, S. Mondal , S. Alam and B. Roy	Ecological Genetics and Genomics	2	NA	2017	25-34
Application of ordinary differential equation in glucose-insulin regulatory system modeling in fuzzy environment	A. Mahata, B. Roy, S. Mondal and S. Alam	Ecological Genetics and Genomics	3	5	2017	60-66
A Hollander–Proschan type test when ageing is not monotone	Ghosh, S., Mitra, M.	Statistics and Probability Letters	121	0167-7152	2017	119-127
A test for detecting Laplace order dominance and related Bahadur efficiency issues	Majumder, P., Mitra, M.	Statistical Papers	Article in Press	0932-5026	2017	1-17
A weighted integral approach to testing against HNBUE alternatives	Ghosh, S., Mitra, M.	Statistics and Probability Letters	129	0167-7152	2017	58-64
Multipollutant Air Quality Management Strategies: T-Sets Based Optimization Technique Under Imprecise Environment	Arindam Garai,Palash Mandal,Tapan Kumar Roy	International Journal of Fuzzy Systems	19	6	2017	1927–1939
Solution of second order linear fuzzy ordinary differential equation by Lagrange multiplier method with application in mechanics	Sankar Prasad Mondal, Tapan Kumar Roy	OPSEARCH	54	4	2017	766–798
Arithmetic Behaviors of P-Norm Generalized Trapezoidal Intuitionistic Fuzzy Numbers with Application to Circuit Analysis	Sanhita Banerjee,Tapan Kumar Roy	International Journal of Fuzzy System Applications (IJFSA)	6	3	2017	1--58
A three-layer supply chain inventory model for non-instantaneous deteriorating item with inflation and delay in payments in random fuzzy environment	Dipankar Chakraborty, Totan Garai, Dipak Kumar Jana, Tapan Kumar Roy	Journal of Industrial and Production Engineering	34	6	2017	407-424
Multi Objective Mean-Variance-Skewness Model with Burg's Entropy and Fuzzy Return for Portfolio Optimization.	Amritansu Ray, Sanat Kumar Majumder	OPSEARCH	55	1	2017	107-133
Unique fixed points of p-cyclic kannan type probabilistic contractions	Choudhury, B.S., Bhandari, S.K., Saha, P.	Bolletino dell Unione Matematica Italiana	10	2	2017	179-189
Fixed point results for couplings on metric spaces	Choudhury, B.S., Maity, P., Konar, P.	UPB Scientific Bulletin, Series A: Applied mathematics and Physics	79	1	2017	77-88
Simultaneous perfect teleportation of three 2-qubit states	Choudhury, Binayak S.; Samanta, Soumen	Quantum information Processing	16	9	2017	Article Number: UN SP 230, 13 pages

Title	Authors	Journal	Vol.	Issue	Year	Pages
Stability results for fixed point sets of $\alpha* - \psi$ contractive multivalued mappings	Choudhury, B.S., Bandyopadhyay, C., Pant, R.	Filomat	31	12	2017	3665-3670
Existence and stability results for coincidence points of nonlinear contraction	Choudhury, Binayak S.; Metiya, Nikhilesh; Kundu, Sunirmal	Facta Universities-Series Mathematics And Informatics	32	4	2017	469-483
A best proximity point theorem using discontinuous functions	Choudhury, B.S., Maity, P., Sadarangani, K.	Journal of convex Analysis	24	1	2017	41-53
Unique fixed points of p-cyclic kannan type probabilistic contractions	Choudhury, B.S., Bhandari, S.K., Saha, P.	Bolletino dell Unione Matematica Italiana	10	2	2017	179-189
Teleportation of five-qubit state using six-qubit state	Choudhury, B.S., Dhara, A., Samanta, S.	Physics of Particles and Nuclei Letters	14	4	2017	644-646
Simultaneous perfect teleportation of three 2-qubit states	Choudhury, B.S., Samanta, S.	Quantum information Processing	16	9	2017	Article ID 230, 13 pages
Coupled multivalued fixed points and stability	Choudhury, B.S., Bandyopadhyay, C.	Nonlinear Functional Analysis and Applications	22	3	2017	543-553
Asymmetric Bidirectional $3 \Leftrightarrow 2$ Qubit Teleportation Protocol Between Alice and Bob Via 9-qubit Cluster State	Choudhury, B.S., Samanta, S.	International Journal of Theoretical Physics	56	10	2017	3285-3296
Influence of dispersal and strong Allee effect on a two-patch predator-prey model	Sangeeta Saha, G.P.Samanta	International Journal of Dynamics and Control	DOI: 10.1007/ s40435-018-0490-3		2018	
Effects of fear and additional food in a delayed predator - prey model	Sudeshna Mondal, Alakes Maiti, G.P.Samanta	Biophysical Reviewes and Letters	DOI: 10.1142/ S179304 8018500 091		2018	
Modeling the fear effect on a stochastic prey–predator system with additional food for the predator	Amartya Das, G.P.Samanta	Journal of Physics A: Mathematical and Theoretical	Vol. 51		2018	465601(26pp)
Stochastic prey–predator model with additional food for predator	Amartya Das, G.P.Samanta	Physica A	Vol. 512		2018	121–141
A Michaelis-Menten Predator-Prey Model with Strong Allee Effect and Disease in Prey Incorporating Prey Refuge	Sangeeta Saha , Alakes Maiti, G.P.Samanta	International Journal of Bifurcation and Chaos	Vol. 28	6	2018	1850073 (21 pages)

Title	Authors	Journal	Volume	Issue	Year	Pages
Deterministic and stochastic analysis of a predator–prey model with Allee effect and herd behaviour	Debasis Manna , Alakes Maiti, G.P.Samanta	Simulation	DOI: 10.1177/ 0037549 7187794 45		2018	1-11
A STUDY of BIFURCATION of PREY-PREDATOR MODEL with TIME DELAY and HARVESTING USING FUZZY PARAMETERS	D.Pal, G.S. Mahapatra, G.P.Samanta	Journal of Biological Systems	Vol. 26	2	2018	339-372
Effects of dispersal speed and strong Allee effect on stability of a two-patch predator–prey model	D. Pal, G.P.Samanta	International Journal of Dynamics and Control	DOI10.1 007/s404 35-018- 0407-1		2018	
Significance of prey harvesting in prey-predator system in discrete time scale using interval parameters	Debaldev Jana, G.P.Samanta	International Journal of Ecological Economics and Statistics	Vol. 39	2	2018	46-60
Stability analysis of a prey-predator fractional order model incorporating prey refuge	Meghadri Das, Alakes Maiti, G.P.Samanta	Ecological Genetics and Genomics	Vol. 7-8		2018	33-46
Analysis of a Chlamydia epidemic model with pulse vaccination strategy in a random environment	G.P.Samanta, Shyam Pada Bera	Nonlinear Analysis: Modelling and Control	Vol. 23	4	2018	457–474
Stability analysis and optimal control of avian influenza virus A with time delays	S. Sharma, A. Mondal , A. K. Pal, G.P.Samanta	International Journal of Dynamics and Control	Vol. 6, No. 3		2018	1351-1366
Analysis of a predator-prey model for exploited fish populations with schooling behavior	Debasis Manna, Alakes Maiti, G.P.Samanta	Applied Mathematics and Computation	Vol. 317		2018	35-48
New approach for stability and bifurcation analysis on predator–prey harvesting model for interval biological parameters with time delays	D.Pal, G.S. Mahapatra, G.P.Samanta	Computationl and Applied Mathematics	Vol. 37, No. 3		2018	3145-3171
Dynamical behaviour of age-selective harvesting of a prey-predator system	Swarnali Sharma, G.P.Samanta	International Journal of Dynamics and Control	Vol. 6	2	2018	550-560

Title	Authors	Journal	Vol	Issue	Year	Pages
Analysis of a harvested predator–prey system with schooling behaviour	Debasis Manna , Alakes Maiti, G.P.Samanta	International Journal of Dynamics and Control	Vol.6	2	2018	881-891
Eigenfunction expansion method to analyze thermal shock behavior in magneto-thermoelastic orthotropic mdium under three theories	S. Biswas and B. Mukhopadhyay	Journal of Thermal Stresses	41	3	2018	366-382
The general solution for dynamical problem of rectangular micro-polar beam vibrating at high frequency	Aritra Bhattacharyya and B. Mukhopadhyay	Applied Mathematics and Computation	332		2018	376-389
Eigenfunction expansion method to characterize Rayleigh wave propagation in orthotropic medium with phase-lags	S. Biswas and B. Mukhopadhyay	Waves in random and complex media			2018	
Rayleigh waves in Thermo-Orthotropic Medium: A Dynamical analysis	S. Biswas, B. Mukhopadhyay and S. Shaw	Computational Thermal Sciences	10	6	2018	1-18
Rayleigh surface wave propagation in transversely isotropic medium with three-phase-lag model	S. Biswas and B. Mukhopadhyay	Journal of Solid Mechanics	10	1	2018	175-185
Memory response on thermal wave propagation emanating from a cavity in an unbounded elastic solid	S. Banerjee, S. Shaw and B. Mukhopadhyay	Journal of Thermal Stresses			2018	
Effect of rotation in magneto thermoelastic transversely isotropic hollow cylinder with three phase lag model.	S. Biswas, B. Mukhopadhyay and S. Shaw	Mechanics based design of structures and mechanics, An international journal	Accepted for publication		2018	
Harvesting unduced stability and instability in a tri-trophic food chain.	B. Ghosh, D. Pal, T. Legovic, T.K. Kar	Mathematical Biosciences	304		2018	89-99
Dynamics of tuberculosis transmission with exogenous reinfections and endogenous reactivation	S. Khajanchi, D. K. Das, T.K. Kar	Physica A: Statistical Mechanics and its Applications	497		2018	52-71
Impact of marine reserve on maximum sustainable yield in a traditional prey-predator system	P. Paul, T.K. Kar, A. Ghorai	Commun. Nonl. Sci. Numer. Simult.	54		2018	34-49
Analysis of a fuzzy epidemic model with saturated treatment and disease transmission	S.K.Nandi, S. Jana, M. Mandal, T.K. Kar	International Journal of Biomathematics	11	1	2018	185 0002
Analysis of Interacting Entropy-Corrected Holographic and New Agegraphic Dark Energies	Chayan Ranjit and Ujjal Debnath	International Journal of Modern Physics D	27	4	2018	1850035 (1-23)
VIKOR based MAGDM strategy under bipolar neutrosophic set environment	S. Pramanik, S. Dalapati, S. Alam and TK Roy	Neutrosophic Sets and Systems	19		2018	57-69

Title	Authors	Journal	Volume	ISSN/Issue	Year	Pages
NC-VIKOR based MAGDM strategy under neutrosophic cubic set environment	S. Pramanik, S. Dalapati, S. Alam and TK Roy	Neutrosophic Sets and Systems	20		2018	95-108
Identifiability issues in dynamic stress–strength modeling	Bhuyan, P., Mitra, M., Dewanji, A.	Annals of the Institute of Statistical Mathematics	70(1)	0020-3157	2018	63-81
SHARP BOUNDS FOR SURVIVAL PROBABILITY WHEN AGEING IS NOT MONOTONE	Khan, R.A., Mitra, M.	Probability in the Engineering and Informational Sciences	Article in Press	0269-9648	2018	1-15
On an ageing class based on the moment generating function order	Ghosh, S., Mitra, M.	Journal of Applied Probability	55(2)	0021-9002	2018	402-415
On the non-monotonic analogue of a class based on the hazard rate order	Majumder, P., Mitra, M.	Statistics and Probability Letters	139	0167-7152	2018	135-140
A new test for exponentiality against HNBUE alternatives	Ghosh, S., Mitra, M.	Communications in Statistics - Theory and Methods	Accepted	0361-0926	2018	--
NS-Cross Entropy-Based MAGDM under Single-Valued Neutrosophic Set Environment	Surapati Pramanik,Shyamal Dalapati,Shariful Alam,Florentin Smarandache and Tapan Kumar Roy	Information Theory and Applications	9	2	2018	01-21
Generalization of Seikkala derivative and differential transform method for fuzzy Volterra integro-differential equations	Suvankar Biswas, Tapan Kumar Roy	Journal of Intelligent & Fuzzy Systems	34	4	2018	2795-2806
A multi-item generalized intuitionistic fuzzy inventory model with inventory level dependent demand using possibility mean, variance and covariance	Totan Garai, Dipankar Chakraborty, Tapan Kumar Roy	Journal of Intelligent & Fuzzy Systems	35	1	2018	1021-1036
A semianalytical method for fuzzy integro-differential equations under generalized Seikkala derivative	Suvankar Biswas,Tapan Kumar Roy	Soft Computing	22		2018	1–17
Two-warehouse partial backlogging inventory model with ramp type demand rate, three-parameter Weibull distribution deterioration under inflation and permissible delay in payments	DipankarChakraborty,Dipak Kumar Jana,Tapan Kumar Roy	Computers & Industrial Engineering	123		2018	157-179
Adaptive strategies for system of fuzzy differential equation: application of arms race model	Sankar Prasad Mondal, Najeeb Alam Khanb, , Oyoon Abdul Razzaqc, Suklal Tudud, Tapan Kumar Roy	Journal of Mathematics and Computer Science (JMCS)	18		2018	192-205
Optimization of Welded Beam Structure Using Neutrosophic Optimization Technique: A Comparative Study	Mridula Sarkar,Tapan Kumar Roy	International Journal of Fuzzy Systems	20	3	2018	847–860
NC-Cross Entropy Based MADM Strategy in Neutrosophic Cubic Set Environment	Surapati Pramanik, Shyamal Dalapati, Avishek Chakraborty, Tapan Kumar Roy	mathematic s(MDPI)	6	5	2018	1-29

Title	Authors	Journal	Volume	Issue	Year	Pages
Different forms of triangular neutrosophic numbers, de-neutrosophication techniques, and their applications	Chakraborty, A., Mondal, S.P., Ahmadian, A., (...), Alam, S., Salahshour, S.	Symmetry	10	8	2018	327
Probabilistic p-cyclic contractions using different types of t-norms	Choudhury, B.S., Bhandari, S.K., Saha, P.	Random Operators and Stochastic Equations	26	1	2018	39-52
Approximating distance between sets by multivalued coupling with application to uniformly convex Banach spaces	Choudhury, B.S., Maity, P., Metiya, N., Postolache, M.	Journal of Inequalities and Application	2018		2018	Article ID130, 15 pages
Simultaneous Teleportation of Arbitrary Two-qubit and Two Arbitrary Single-qubit States Using A Single Quantum Resource	Choudhury, B.S., Dhara, A.	International Journal of Theoretical Physics	57	1	2018	1_8
Remote Preparation of Some Three Particle Entangled States Under Divided Information	Choudhury, B.S., Samanta, S.	International Journal of Theoretical Physics			2018	Article in Press
Simultaneous determination of distance between sets by multivalued kannan type coupling	Choudhury, Binayak S.; Maity, Pranati; Metiya, Nikhilesh; et al.	International journal of analysis and applications	16	5	2018	712-732
Probabilistic p-cyclic contractions using different types of t-norms	Choudhury, B.S., Bhandari, S.K., Saha, P.	Random Operators and Stochastic Equations	26	1	2018	39-52
Some dynamical aspects of interacting quintessence model	Choudhury, B.S., Mondal, H.S., Chatterjee, D.	Pramana-Journal of Physics	90	4	2018	Article ID 55, 9 pages
Generalised pata type result with multivalued rational type maps	Choudhury, B.S., Bandyopadhyay, C., Maity, P., Pati, K.C.	Indian Journal of Mathematics	60	1	2018	153-169
A multi-hop teleportation protocol of arbitrary four-qubit states through intermediate nodes	Choudhury, B.S., Samanta, S.	International Journal of Quantum Imformation	16	3	2018	Article ID1850026
Perfect joint remote state preparation of arbitrary six-qubit cluster-type states	Choudhury, B.S., Samanta, S.	Quantum information Processing	17	7	2018	Article ID 175, 12 pages
A perfect multi-hop teleportation scheme for transfer of five-qubit entangled states using intermediate nodes	Choudhury, B.S., Samanta, S.	Journal of Modern Optics	65	12	2018	1479-1485
A Teleportation Protocol For Transfer of Arbitrary GHZ-states Using Intermediate Nodes	Choudhury, B.S., Samanta, S.	International Journal of Theoretical Physics	57	9	2018	2665-2675
Stability and Permanence of a Discrete-time Two-Prey One-Predator System with Holling Type-III Functional Response	Pritha Das, Ritwick Banerjee and Debasis Mukherjee	Chaos, Solitons & Fractals, Elsevier	117		2018	240-248

Title	Authors	Journal	Volume	Issue	Year	Pages
Stochastic Non-Autonomous Holling Type-III Prey-Predator Model with Predator's Intra-Specific Competition	Pritha Das, Sampurna Sengupta, and Debasis Mukherjee	Discrete and Continuous Dynamical Systems Series B AIMS	23	8	2018	3275-3296
Effect of environmental variation in a prey-predator fishery with harvesting in presence of toxicity	Pritha Das, Partha Ghosh and Debasis Mukherjee	World Journal of Modelling and Simulation	14	3	2018	181-191
Delayed Feedback Controller based Finite-time Synchronization of discontinuous Neural Networks with Mixed Time-varying Delays	Pritha Das, Parthasakha Das	Neural Processing Letters, Springer	DOI No.10.1007/s11063-018-9850-4		2018	1-17
Modelling and optimal control of HIV/AIDS prevention through PrEP and limited treatment	Sangeeta Saha, G.P.Samanta	Physica A	Vol. 516		2019	280-307
Unipolar resistive switching followed by Oscillat	U Ghanta, M. Ray, **S.M.Hossain**	Nanotechnology	27	45	2016	455702
Black silicon solar cell: analysis optimization and evolution towards a thinner and flexible future	AB Roy, A Dhar, M Choudhuri, S Das, **SM Hossain**, A Kundu,	Nanotechnology	27	30	2016	305302
Structure of 132 52 Te80: The two-particle and two-hole spectrum of 132 50 Sn82	S. Biswas, R. Palit, A. Navin, M. Rejmund, **Abhijit Bisoi**, M. Saha Sarkar, S. Sarkar, S. Bhattacharyya, D. C. Biswas, M. Caamaño, M. P. Carpenter, D. Choudhury, E. Clément, L. S. Danu, O. Delaune, F. Farget, G. de France, S. S. Hota, B. Jacquot, A. Lemasson, S. Mukhopadhyay, V. Nanal, R. G. Pillay, S. Saha, J. Sethi, Purnima Singh, P. C. Srivastava, and S. K. Tandel	PHYSICAL REVIEW C	93		2016	034324
Shape coexistence in 153Ho	Dibyadyuti Pramanik, **S. Sarkar**, M. Saha Sarkar, Abhijit Bisoi, Sudatta Ray, Shinjinee Dasgupta, A. Chakraborty, Krishichayan, Ritesh Kshetri, Indrani Ray, S. Ganguly, M. K. Pradhan, M. Ray Basu, R. Raut, G. Ganguly, S. S. Ghugre, A. K. Sinha, S. K. Basu, S. Bhattacharya, A. Mukherjee, P. Banerjee, and A. Goswami	PHYSICAL REVIEW C	94		2016	024311

Title	Authors	Journal	Vol	Issue	Year	Pages
Shears mechanism and development of collectivity in 141Sm	S. Rajbanshi, Sajad Ali, **Abhijit Bisoi,** Somnath Nag, S. Saha, J. Sethi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, A. K. Singh, T. Trivedi, and A. Goswami	PHYSICAL REVIEW C	94		2016	044318
Synthesis of a-Fe2O3-functionalised graphene oxide nanocomposite by a facile low temperature method and study of its magnetic and hyperfine properties	Sanchyita Nag, Anirban Roychowdhury, Dipankar Das, **Sampad Mukherjee**	Materials Research Bulletin	74		2016	109–116
Temperature Dependent Dielectric Properties of Self Standing and Flexible poly(vinylidene fluoride) Films Infused with Er3+ doped GeO2 and SiO2 Nanoparticles	Epsita Kar, Navonil Bose, Sukhen Das, Nillohit Mukherjee, **Sampad Mukherjee**	Journal of Applied Polymer Science	133	40	2016	44016
Compact Stars in f(R,T) gravity	Amit Das, Farook Rahaman, **B.K.Guha** and Saibal Ray	European Physics Journal C	76		2016	654
Effect of Processing Parameters on Thermal Cycling Behaviour of Alumina-Alumina Brazed Joints,	Nandadulal Dandapat, Sumana Ghosh, **Bichitra Kumar Guha,** Someswar Datta and Vamsi Krishna Balla,	Metallurgical and Materials Transactions, V	47 B	3	2016	
Anisotropic stars with non-static conformal symmetry	Dibyendu Shee, Farook Rahaman, **B. K. Guha** and Saibal Ray	Astrophysics Space Sci	361		2016	167
Facile electrochemical deposition of Cu7Te4 thin films with visible-light driven photocatalytic activity and thermoelectric performance	Amrita Ghosh, Mousumi Mitra, **Dipali Banerjee**, Anup Mondal,	RSC Advances	6		2016	22803-22811,
Galvanic synthesis of Cu2-XSe thin films and their photocatalytic and thermoelectric properties	Amrita Ghosh, Chiranjit Kulsi, **Dipali Banerjee** and Anup Mondal	Applied Surface Science	369		,2016	525-534
Study of parabolic self-similar optical pulse generation in single mode fibers using variational approximation for the LP01 mode -	Debasruti Chowdhury, Dipankar Ghosh, **Mousumi Basu**, Hiranmayee Mohapatra, Shaikh Iqbal Hosain	Optik	127		2016	8386–8393
Performance of different normal dispersion fibers to generate triangular optical pulses-	D. Chowdhury, Navonil Bose Dipankar Ghosh and **Mousumi Basu**	Opt Quant Electron	294,	49	2017	
Designing suitable dispersion decreasing active fibers to generate parabolic pulses in presence of macrobending -	Dipankar Ghosh and **Mousumi Basu**	Opt Quant Electron	49	8	2017	
Electrical Transport through Array of Electrochemically-etched Silicon Nanorods	U. Ghanta, S. Singh, M. Ray, N. R. Bandyopadhyay, S. Ganapathy and **S. M. Hossain,**	Physica status solidi (a)	214	6	2017	0879
Gold-Silver Nanostructures: Plasmon Plasmon Interaction,	Atrayee Hazraa, , **Syed Minhaz Hossain**, , Ashit Kumar Pramanick, , Mallar Ray	Vacuum	146		2017	437-443

Optical and electrical effects of thin reduced graphene oxide layers on textured wafer-based c-Si solar cells for enhanced performance,	Nandi, A., Majumdar, S., Datta, S.K., Saha, H., **Hossain, S.M.**	Journal of Materials Chemistry C	5	8	2017	1920-1934
Evidence of antimagnetic rotation in an odd-odd nucleus: The case of 142Eu	Sajad Ali, S. Rajbanshi, B. Das, S. Chattopadhyay, M. Saha Sarkar, A. Goswami, R. Raut, Abhijit Bisoi, Somnath Nag, S. Saha, J. Sethi, R. Palit, G. Gangopadhyay, T. Bhattacharjee, S. Bhattacharyya, G. Mukherjee, A. K. Singh, and T. Trived.	Physical Review C	96		2017	021304
Facile synthesis and thermoelectric properties of aluminum doped zinc oxide/polyaniline (AZO/PANI) hybrid	Mousumi Mitra**,** Kajari Kargupta, Saibal Ganguly, Shyamaprosad Goswami and **Dipali Banerjee**	Synthetic Metals	**228**		2017	25–31
Enhanced photo catalytic performance of nickel doped bismuth selenide under visible light irradiation	Chiranjit Kulsi, Amrita Ghosh, Anup Mondal, Kajari Kargupta, Saibal Ganguly and **Dipali Banerjee**	Mater. Res. Express	4		2017	035902
Polyaniline–single walled carbon nanotube composite – a photocatalyst to degrade rose bengal and methyl orange dyes under visible-light illumination	Mukulika Jana Chatterjee, Amrita Ghosh, Anup Mondal and **Dipali Banerjee**	RSC Adv.	7		2017	36403
Enhanced thermoelectric performance of n-type bismuth selenide doped with nickel	Chiranjit Kulsi, Kajari Kargupta, Saibal Ganguly, **Dipali Banerjee**	Current Applied Physics	17		2017	1609-1615
Facile synthesis of aluminium doped zinc oxide-polyaniline hybrids for photoluminescence and enhanced visible-light assisted photo-degradation of organic contaminants	Mousumi Mitra, Amrita Ghosh, Anup Mondal, Kajari Kargupta, Saibal Ganguly, **Dipali Banerjee**	Applied Surface Science	402		2017	418-428
Remarkable photo-catalytic degradation of malachite green by nickel doped bismuth selenide under visible light irradiation	C. Kulsi, A. Ghosh, A. Mondal, K. Kargupta, S. Ganguly and **D Banerjee**	Applied Surface Science	392		2017	540-548
Graphene-Rich G-Co-Ni Nanomatrix: An Optimized Heterogeneous Catalyst for Hydrogen Generation Based on Morphology-Performance Mapping	Shubhanwita Saha, Ananya Saha, Lyang-om Lepcha, Saibal Ganguly, **Dipali Banerjee**, and Kajari Kargupta	Chemistry Select	2		2017	4309-4319
Poly(vinylidene fluoride)/submicron graphite platelet composite: A smart, lightweight flexible material with significantly enhanced β polymorphism, dielectric and microwave shielding properties	E. Kar, N. Bose, B. Dutta, N.Mukherjeec, **S. Mukherjee**	Eur. Polym. J.,	90		2017	442-445

Smart, lightweight, flexibleNiO/poly(vinylideneflouride) nanocomposites film with significantlyenhanced dielectric,piezoelectric and EMI shielding properties	B. Dutta, N. Bose, E. Kar, S. Das, **S. Mukherjee**	J Polym. Res.	24		2017	220
Neutral collective excitation in fractional quantum Hall effect at Jain series -	Debashis Das, Moumita Indra, **Dwipesh Majumder**	Solid State Communications	260	19-22	2017	
Gravastars in f(R,T) gravity,	Amit Das, Shounak Ghosh, **B.K.Guha**, Swapan Das, Farook Rahaman and Saibal Ray	Physical Review D	95		2017	124011
Compact star in pseudo-spherical spacetime,	D. Shee, S. Ghosh, F. Rahaman, **B.K.Guha** and Saibal Ray,	Astrophysics Space Sci	352		2017	114
Charged gravastars in higher dimensions,	S. Ghosh, F. Rahaman, **B. K. Guha** and Saibal Ray,	Physics Letters B	767		2017	380-385.
Relativistic mdels for anisotropic strangestars,	Debabrata deb, Sourav Roy Chowdhury, Saibal ray, Farook Rahaman and **B. K. Guha**,	Annals of Physics,	387		2017	239
In vitro killing of mycobacteria by low temperature atmospheric pressure plasma and dielectric barrier discharge plasma for treatment of tuberculosis,	Georg Daeschlein, Matthias Napp, **Abhijit Majumdar**, Klaus D. Weltmann, M. Jünger,	Clinical Plasma Medicine	5		2017	1–7
Strain Effects by Surface Oxidation of Cu3N Thin Films Deposited by DC Magnetron Sputtering,	**Abhijit Majumdar**, S. Drache, H. Wulff, A. K Mukhopadhyay, C. A. Helm, R. Hippler,	Coatings	7	64	2017	
Phase pure epitaxial growth of BiFeO3 films: An effect of oxygen partial pressure,	Sadhan Chandra Das, **Abhijit Majumdar**, Sumant Katiyal, Bommareddy Poojitha, Surajit Saha and T. Shripathi,,	Solid State Communication	264,		2017	10-15
Study of autocorrelation function of polymer and polymer–nanocomposite solutions using dynamic light scattering method -	**Mojammel H. Mondal**	J of Polym. Res.	24	218	2017	
	2018					

Spectroscopy of low lying states in 150Sm	**A.Saha, T.Bhattacharjee, S.S.Alam, D.Banerjee, M.SahaSarkar, S.Sarkar, J.B.Gupta, P.Das, SoumikBhattacharya, DeepakPandit, R.Guin, S.K.Das, S.R.Banerjee.**	Nuclear Physics A .	1		2018	976
	Sudipta Chakrabarty, Sourav Mandal, Susmita Biswas, Ashit Kumar Pramanick, Mallar Ray, **Syed,Minhaz Hossain**	IEEE Transactions on Device and Materials Reliability	09/TDMR.2018.287		2018	just accepted
Application of hybrid rGO-ITO bilayer TCO on a-Si solar cell for performance enhancement,	Anupam Nandi, Sourav Mandal, Sugato Ghosh, Sukanta Dhar, Sanhita Majumdar, Hiranmay Saha and **Syed Minhaz Hossain,**	IEEE Journal of Photovoltaics	PHOTOV.2018.287		2018	just accepted
Multi-parametric Optical Glucose Sensor based on Surface Functionalized nano-Porous Silicon	D. Basu, T. Sarkar, K. Sen, **S.M. Hossain,** J. Das,	IEEE Sensors Journal	doi:10.1109/JSEN.2018.2872846		2018	just accepted
Development of Graphene Capped Silicon-Silicon oxide Core-Shell Nano-structure: Charge trapping characteristics at the Interfaces",	Anupam Nandi, Susmita Biswas, Sudipta Chakrabarty, Sanhita Majumdar, Hiranmay Saha, Mahesh Saini and **Syed Minhaz Hossain,**	Applied Materials Today	13		2018	370-380
Effect of phonon confinement on photoluminescence from colloidal silicon nanostructures	U. Ghanta, M. Ray, S. Biswas, S. Sardar, T. K. Maji, S. K. Pal, N. R. Bandyopadhyay, B. Liu and **S. M. Hossain,**	Journal of Luminescence	201		2018	338-344
Cluster states at low excitation energy in 34S	Abhijit Bisoi, Ananya Das, M. Saha Sarkar, and **S. Sarkar**	PHYSICAL REVIEW C	97		2018	044317
Slow fission of highly excited plutonium nuclei	A. K. Sikdar, A. Ray, Deepak Pandit, B. Dey, Sarmishtha Bhattacharyya, Soumik Bhattacharya, **Abhijit Bisoi**, A. De, S. Paul, Srijit Bhattacharya, and A. Chatterjee	PHYSICAL REVIEW C	98		2018	024615
Excited negative parity bands in 160 Yb	A Saha, T Bhattacharjee, D Curien, I Dedes, K Mazurek, S R Banerjee, S Rajbanshi, **Abhijit Bisoi**, G de Angelis, Soumik Bhattacharya, S Bhattacharyya, S Biswas, A Chakraborty, S Das Gupta, B Dey, A Goswami, D Mondal, D Pandit, R Palit, T Roy, R P Singh, M Saha Sarkar, S Saha and J Sethi.	Physica Scripta	93		2018	034001

Title	Authors	Journal	Volume	Issue	Year	Pages
Spectroscopy of low lying states in 150Sm	A.Saha, T.Bhattacharjee, S.S.Alam, D.Banerjee, M.SahaSarkar, **S.Sarkar**, J.B.Gupta, P.Das, SoumikBhattacharya, DeepakPandit, R.Guin, S.K.Das, S.R.Banerjee.	Nuclear Physics A	976		2018	1
Visible-Light Influenced Photocatalytic Activity of Polyaniline - Bismuth Selenide Composite for the Degradation of Methyl Orange, Rhodamine B and Malachite Green dyes	Mukulika Jana Chatterjee , Sk Taheruddin Ahamed , Mousumi Mitra , Chiranjit Kulsi , Anup Mondal, **Dipali Banerjee**	Applied surface science				
Thermoelectric properties of nanostructured bismuth telluride (Bi_2Te_3) with annealing time and its composite with reduced graphene oxide (RGO)	Chiranjit Kulsi, Mousumi Mitra, Kajari Kargupta, **Dipali Banerjee**	Journals of Material Science: Materials in electronics				
Enhancement of thermoelectric performance in oligomeric PEDOT-SWCNT nanocomposite via band gap tuning	Shilpa Maity; Nayim Sepay; Chiranjit Kulsi; Arpan Kool; Sukhen Das; **Dipali Banerjee**; Krishanu Chatterjee	Chemistry Select	**3**		2018	8992-8997
Composite of Polyaniline-Bismuth Selenide with Enhanced Thermoelectric Performance	Mousumi Mitra, Chiranjit Kulsi, Kajari Kargupta, Saibal Ganguly, **Dipali Banerjee**	Journal of Applied Polymer Science			**2018**	
Lithium assisted enhanced hydrogenation of reduced graphene oxide-PANI nanocomposite at room temperature	Shubhanwita Saha, , Mousumi Mitra , Ananta Sarkara, **Dipali Banerjee** , Saibal Ganguly , Kajari Kargupta	Diamond & Related Materials	**84**		2018	103–111
Portable smart highly proton conductive all inorganic gel paste electrolyte with optimum phosphorous to silicon ratio for enhanced, durable operation of fuel cell	Priyanka Ghosh, Chandan Kumar Dhole, Saibal Ganguly, **Dipali Banerjee** and Kajari Kargupta	Sustainable Energy & Fuels	**2**	8	2018	1737–1748
Salt-leaching technique for the synthesis of porous poly(2,5-benzimidazole) (ABPBI) membranes for fuel cell application	Annesha Das, Priyanka Ghosh, Saibal Ganguly, **Dipali Banerjee**, Kajari Kargupta	Journal of Applied Polymer Science	135		2018	45773
NiO@SiO2/PVDF: A Flexible Polymer Nanocomposite for High Performance Human Body Motion Based Energy Harvester And Tactile e-skin Mechanosensor	B. Dutta, E. Kar, N. Bose, **S. Mukherjee**	ACS Sustainable Chem. Eng	6		2018	10505-10516
MWCNT@SiO2 heterogeneous nano filler based polymer composites: A single key to the high performance piezoelectric nanogenerator and X-band microwave shield	E. Kar, N. Bose, B. Dutta, N.Mukherjee, **S. Mukherjee**	ACS Appl. Nano. Mater.	1		2018	4005-4018
Structural and magnetic properties of erbium (Er3+) doped nickel zinc ferrite prepared by sol-gel auto- combustion method	Sanchayita Nag, Anirban Roychowdhury, Dipankar Das, Sukhen Das, **Sampad Mukherjee**,	Journal of Magnetism and Magnetic Materials,	466		2018	172-178

Title	Authors	Journal	Vol	Issue	Year	Pages
Application of GeO2 nanoparticle as electrically erasable memory and its photo catalytic behavior	Mrinal Seal, Navonil Bose, **Sampad Mukherjee**	Materials Research Express	5		2018	065007
Study of partially polarized fractional quantum Hall states -	Moumita Indra, Debashis Das, **Dwipesh Majumder**	Physics Letters A	382	40	2018	2984-2988
Roton minimum at _ = 1=2 _lled fractional quantum Hall e_ect of Bose particles -	Debashis Das, Saswata Sahu, **Dwipesh Majumde**r	Physica B: Condensed Matter	534		2018	173183
Strange stars in f(R,T) gravity,	Debabrata Deb, Farook Rahaman, Saibal Ray and **B. K. Guha,**	J. Como and Astropart. Phys.	1475		2018	44
Heat transport in an anharmonic crystal -	Shiladitya Acharya and **Krisnendu Mukherjee,**	Int. J. Mod. Phys, B	32		2018	1850126
Anisotropic strange stars under simplest minimal matter-geometry coupling in the f(R,T) grravity,	Debabrat Deb, **B. K. Guha**, Rahaman and Saibal Ray.	Physical Review D	97		2018	84026
Relativistic compact stars in f(T) gravity admitting conformal motion	Amit Das, F. Rahaman, **B. K. Guha** and S. Ray	Astrophys Space Science	358	2	2018	36
Anisotropic Strange stars with Tolman V potential	D. Shee, D. Deb, S. Ghosh, S. Ray and **B. K. Guha**	Int. J. of Mod. Phys. D			2018	1850089
Gravastars with higher dimensional spacetimes	S. Ghosh, S. Ray, F. Rahaman and **B. K. Guha**	Annals of Physics	394		2018	230
Anisotropic strange stars in the Einstein Maxwell space time	D. Deb, M. Khlopov, F. Rahaman, S. Ray and **B. K. Guha**	European Physics Journal C	78	6	2018	465
Estimation of Time Delay and Wavelength Shift for Highly Nonlinear Multilayer Waveguide by Using Time Transformation Approach	Roshmi Chatterjee and **Mousumi Basu**	Optics & Laser Technology	99		2018	138-144
Prospective use of a normally dispersive step-index chalcogenide fiber in nonlinear pulse reshaping	Binoy Krishna Ghosh, Dipankar Ghosh, and **Mousumi Basu**	Applied Optics	57	13	2018	3348-3356

Title	Authors	Publication	Vol	Issue	Year	Page
An efficient way of third-order dispersion compensation for reshaping parabolic pulses through normal dispersion fiber amplifier	Debasruti Chowdhury , Dipankar Ghosh and **Mousumi Basu**	J. Opt. (IOP Publishing)	20		2018	095503
Development of power supply for atmospheric pressure plasma jet at room temperature for bio-medical applications",	Sadhan Chandra Das, **Abhijit Majumdar**, Subroto Mukherjee, Sumant Katiyal, T. Shripathi,	IEEE Xplore	978	9	2016	3805-4421
Thermoelectric Performance of Polypyrrole and Single Walled Carbon Nanotube Composite	Mukulika Jana Chatterjee, Mousumi Mitra and Dipali Banerjee	International Conference on Functional Nanomaterials (IC-FNM), 28-29 September			2016	
Preparation and thermoelectric properties of reduced graphene oxide-polypyrrole composite	Mousumi Mitra, Dipali Banerjee, Kajari Kargupta and Saibal Ganguly	International Conference on Organic and Hybrid Thermoelectrics (ICOT 2016), Kyoto, Japan, 18-20th January			2016	
Thermoelectric performance of structurally ordered polyaniline–carbon nanotube composite	Mukulika Jana Chatterjee, Krishanu Chatterjee and Dipali Banerjee	International Conference on Organic and Hybrid Thermoelectrics (ICOT 2016), Kyoto, Japan, 18-20th January			2016	
Enhanced Dielectric Properties of Hydrothermally Synthesized Copper Oxide Nanoparticles Loaded Self-standing Flexible PVDF Films	Biplab Dutta, Epsita Kar, Navonil Bose, Sampad Mukherjee	International conference on Multifunctional Materials for Device Applications			2016	
Enhancement of Dielectric Properties of flexible Poly(vinylidene fluoride) thin films by loading Er3+ ions incorporated SiO2 nanoparticles	Epsita Kar, Biplab Dutta, Navonil Bose, Nillohit Mukherjee, Sampad Mukherjee	International conference on Multifunctional Materials for Device Applications			2016	78
Shell Model Calculation of Cluster correlation in 36Ar and 34S	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.			2016	106
High spin states in 38K	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	61		2016	216
Search for unobserved transitions in 142Eu	Abhijit Bisoi	Proceedings of the DAE Symp. on Nucl. Phys	61		2016	228
Shell-model studies of nuclei around A ~ 130	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	61		2016	238
Predicting low - lying level structure of exotic nuclei using Pandya theorem	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	61		2016	256
Observation of band structure and new isomeric levels in 204 At	Abhijit Bisoi	Proceedings of the DAE Symp. on Nucl. Phys.	61		2016	304

Title	Authors	Proceedings			Year	
Predicting nuclear structure in the exotic neutron-rich nuclei using the purity of (7/2)n - configuration	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	61		2016	82
High spin states in 37Ar	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	61		2017	84
Isomers in 117,118Sn and role of neutron 1h 11/2 orbit	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	62		2017	190
Un-even transition strengths in A =35 mirror nuclei: A role of isospin mixing	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	62		2017	196
Assignment of multipolarity for $\Delta I = 0$ γ transitions from Polarization measurements	Abhijit Bisoi	Proceedings of the DAE Symp. on Nucl. Phys.	62		2017	200
Decay spectroscopy of 118mSb	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	62		2017	
Choice of normally dispersive chalcogenide optical fibers in view of parabolic pulse generation	Binoy Krishna Ghosh, Dipankar Ghosh and Mousumi Basu	Proc. of 41st OSI-ICAOP-2017, November, 2017.			2017	230
Effect of Solvents on the Structuraland Dielectric Properties of Bare and SiO2 Nanoparticles Loaded PVDF Film	E. Kar, B. Dutta, N. Bose, N. Mukherjee, S. Mukherjee	YSC 2017, MRSI Kolkata	62		2017	110040
Effect of nickel doping on thermoelectric properties of Bismuth selenide	Chiranjit Kulsi, Kajari Kargupta, and Dipali Banerjee	AIP Conference Proceedings			2017	
Chemically synthesized bismuth selenide/polyaniline composite for polymer-based thermoelectric applications	Mousumi Mitra, Chiranjit Kulsi, Dipali Banerjee	International Conference on Thermoelectrics (ICT 2017), Pasadena, California, USA, 31st July-3rd August	1832		2017	272
Lifetime measurement for a dipole band in 142Eu	Abhijit Bisoi	Proceedings of the DAE Symp. on Nucl. Phys.			2017	280
Proton induced reactions of 27Al at low energies	Abhijit Bisoi & S Sarkar	Proceedings of the DAE Symp. on Nucl. Phys.	62		2017	
Trap Assisted Transport in Silicon Nanorods	U. Ghanta and S. M. Hossain,	International Conference on Emerging Trends in Engineering and Science (ETES-2018)	62		2018	
Automated Technique based on Image Processing for Accurate Diagnosis of Finger Clubbing,	K. Sen, A. Sen, D. Basu, S.M. Hossain, J. Das.	Proceedings, International Conference on IEEE Sensors 2018, New Delhi, 28-31 October,	accepted		2018	9866-9870
Graphene Oxide Based Fruit Ripeness Sensing e-Nose	M. Mallick, S.M. Hossain, J. Das,	Materials Today: Proceedings	accepted	3	2018	
Band calculation of 2D square lattice using the method of successive-over relaxation	Shayari Basu, Syed Minhaz Hossain	"Lecture Notes on Network and Systems" (Springer)	5		2018	9790

Title	Authors	Journal	Vol	Issue	Year	Pages
Current Controlled Switching in Si/PS/a-Si Heterostructure	Sudipta Chakrabarty, Sourav Mandal, Ujjwal Ghanta, Jayoti Das, and Syed Minhaz Hossain,	Materials Today: Proceedings,	accepted	3	2018	10154–10160
Luminescent Silicon Nanocrystal embedded Sodium Silicate Glass	Bhaskar Dasa, Syed Minhaz Hossain and Mallar Ray	Materials Today: Proceedings	5,	3	2018	
Negative Differential Resistance in Random Array of Silicon Nano-Rods	Sudipta Chakrabarty, Syed Minhaz Hossain	Lecture Notes in Networks and Systems (Springer).(2018)	5		2018	10028-10033
Effect of centrifugation time on the optical properties of colloidal silicon nanoparticle	Biswas, S. Nandi, A., Dhara, A., Baral, A., Saha, H., Mukherjee, N., Hossain, S.M.	Materials Today: Proceedings	accepted	3	2018	10104-10109
Study on plasmon-plasmon coupling through Coulombic interaction	Hazra, A., Hossain, S.M., Ray, M.	Materials Today: Proceedings	5	3	2018	9743-9748
Thermoelectric Performance of Polypyrrole and Single Walled Carbon Nanotube Composite	Mukulika Jana Chatterjee, Mousumi Mitra, Dipali Banerjee	Materials Today Proceedings	5		2018	
Self-Polarized Flexible SiO2encapsulated SnO2 nanosheet/PVDF Nanocomposite: An Excellent Material for PiezoelectricEnergy Harvester	E. Kar, B. Dutta, N. Bose, N. Mukherjee, S. Mukherjee	ISFM-2018	5		2018	
PVDF/CuO Nanocomposites Film: An excellent Lightweight Flexible material for Microwave Shielding Application	Biplab Dutta, Navonil Bose, Epsita Kar, Sampad Mukherjee	International Conference on Current Trends in Materials Science and Engineering (CTMSE-2018)			2018	
Enhanced Dielectric Properties of Hydrothermally Synthesized Zinc Oxide Nanoparticles Loaded Self-standing Flexible Poly(vinylidene fluoride)Films	Biplab Dutta, Navonil Bose, Epsita Kar, Sampad Mukherjee	International Conference on Facets of Basic Sciences & Applications (FBSA),			2018	
Methelene Blue/PVA Thin Film Composites: A Broad Scale Cut-Off Optical Filter	Debopriyo Ghoshal, Debapriya Bhattacharya, Navonil Bose, Sukhen Das and Mousumi Basu	Proc. of UGC-CPE sponsered International Conference on FBSA 2018.			2018	
Designing Normal Dispersion Chalcogenide Optical Fibers for Efficient Parabolic Pulse Generation," Proc. of UGC-CPE sponsered International Conference on FBSA 2018.	Binoy Krishna Ghosh, Dipankar Ghosh and Mousumi Basu	Proc. of UGC-CPE sponsered International Conference on FBSA 2018.			2018	
Fluorine substituted nano hydroxyapatite: Synthesis, bio-activity and antibacterial response study	Purnendu Nasker, Mayuri Mukherjee, Shashi Kant, Sucheta Tripathy, Arijit Sinha, Mitun Das	Ceramics International	44	17	2018	22008-22013
A novel study on mechanically alloyed Al–Mg system by X-ray diffraction technique	Shubhadeep Maity, Arijit Sinha, Supriya Bera	Nano-Structures & Nano-Objects	16		2018	63-68

Title	Authors	Journal	Vol/DOI	Issue	Year	Pages
Influence of over-aging and sub-zero temperature rolling on strength-ductility balance in AA6061 alloy	Souriddha Sanyal, Subhranshu Chatterjee, Sumit Chabri, Nandagopal Bhowmik, Arijit Sinha	Engineering Science and Technology, an International Journal	doi.org/10.1016/j.jestch.2018.10.003		2018	
Strontium doped hydroxyapatite from Mercenaria clam shells: Synthesis, mechanical and bioactivity study	Anindya Pal, Purnendu Nasker, Sudeep Paul, Amit Roy Choudhury, Arijit Sinha, Mitun Das	Journal of the Mechanical Behavior of Biomedical Materials	doi.org/10.1016/j.jmbbm.2018.10.027		2018	
Assessing Nanoscratch Behavior of Epoxy Nanocomposite Toughened with Silanized Fullerene	Subhankar Das, Sudipta Halder, Arijit Sinha, Muhammad Ali Imam, Nazrul Islam Khan	ACS Applied Nano Materials	1	7	2018	3653-3662
Effect of copper incorporation on the mechanical and thermal behavior of jute fiber reinforced unsaturated polyester composites	Bhabatosh Biswas, Sumit Chabri, Pravin Sawai, Bhairab Chandra Mitra, Kunal Das, Arijit Sinha	Polymer Composites	39	S3	2018	E1315-1330
Synthesis, characterization and bioactivity of SrTiO3 incorporated titanium coating	Souvik Sahoo, Mitun Das, Arijit Sinha, Vamsi Balla	Journal of Materials Research	33	14	2018	2087-2095
Effect of Aluminum Addition on the Mechanical and Thermal Behavior of Unsaturated Polyester/Jute Composites	Bhabatosh Biswas, Sumit Chabri, Pravin Sawai, Bhairab Chandra Mitra, Kunal Das, Arijit Sinha	Advances in Polymer Technology	37	3	2018	810-821
Effect of trace elements on the sintering effect of fish scale derived hydroxyapatite and its bioactivity	Mitun Das Sudeep Paul, Anindya Pal, Amit Roy Choudhury, Subhadip Bodhak, Vamsi Krishna Balla, Arijit Sinha	Ceramics International	43	17	2017	15678-15684
Synthesis of hydroxyapatite from Lates calcarifer fish bone for biomedical applications	Arijit Sinha, Anindya Pal, Sudeep Paul, Amit Roy Choudhury, Vamsi Krishna Balla, Mitun Das	Materials Letters	203		2017	89-92
An Efficient Approach Towards the Photodegradation of Indigo Carmine by Introducing ZnO/CuO/Si Ternary Nanocomposite as Photocatalyst	Arnab Dhara, Apurba Baral, Sumit Chabri, Arijit Sinha, Nil Ratan Bandyopadhyay, Nillohit Mukherjee	Journal of The Institution of Engineers (India): Series D	98	1	2017	1-8
Effect of Copper/Graphite Addition on Electrical Conductivity and Thermal Insulation of Unsaturated Polyester/Jute Composites	Bhabatosh Biswas, Sumit Chabri, Bhairab Chandra Mitra, Kunal Das, Nil Ratan Bandyopadhyay, Arijit Sinha	Journal of The Institution of Engineers (India): Series D	98	1	2017	19-25
Mechanochemical synthesis of nanocrystalline hydroxyapatite from Mercenaria clam shells and phosphoric acid	Mitun Das, Arijit Sinha Anindya Pal, Shubhadeep Maity, Sumit Chabri, Supriya Bera, Amit Roy Chowdhury	Biomedical Physics & Engineering Express	3	1	2017	
Correlation Between Morphology and Nanomechanical Behavior of ZnO Thin Films	Arijit Sinha, Nillohit Mukherjee	Journal of The Institution of Engineers (India): Series D	98	2	2016	189-193

Title	Authors	Journal	Volume	Issue	Year	Pages
Tribological behavior of thermomechanically treated Al–Mg–Si alloy by nanoscratch measurements	Souriddha Sanyal, Sumit Chabri, Subhranshu Chatterjee, Nandagopal Bhowmik, Avijit Kumar Metya, Arijit Sinha	Tribology International	102		2016	125-132
Core-shell CuO-ZnO p-n heterojunction with high specific surface area for enhanced photoelectrochemical (PEC) energy conversion	Nillohit Mukherjee Arnab Dhara, Bibhutibhushan Show, Apurba Baral, Sumit Chabri, Arijit Sinha, Nil Ratan Bandyopadhyay	Solar Energy	136		2016	327-332
Mechanical behaviour of aluminium dispersed unsaturated polyester/jute composites for structural applications	Bhabatosh Biswas, Sumit Chabri, Bhairab Chandra Mitra, Nil Ratan Bandyopadhyay, Arijit Sinha	Journal of The Institution of Engineers (India): Series C	99	5	2016	525-530
Deformation, decomposition and hardening behavior of nano Al7075 alloy prepared by mechanical milling and hot pressing	Tuhin Das, R Karunanithi, Arijit Sinha, KS Ghosh, Supriya Bera	Advanced Powder Technology	27	4	2016	1874-1877
Micromechanical behavior of β-Al3Mg2-dispersed aluminum composite prepared by high-energy ball milling and hot pressing	Shubhadeep Maity, Sumit Chabri, Subhranshu Chatterjee, Supriya Bera, Arijit Sinha	Journal of Composite Materials	doi.org/10.1177/00219983 16673705		2016	
Mesoporous CuO–ZnO p–n heterojunction based nanocomposites with high specific surface area for enhanced photocatalysis and electrochemical sensing	Sumit Chabri, Arnab Dhara, Bibhutibhushan Show, Deepanjana Adak, Arijit Sinha, Nillohit Mukherjee	Catalysis Science & Technology	6	9	2016	3238-3252
Effect of phonon confinement on photoluminescence from colloidal silicon nanostructures	Ujjwal Ghanta, Mallar Ray, Susmita Biswas, Samim Sardar, Tuhin Kumar Maji, Samir Kumar Pal, Nil Ratan Bandyopadhyay, Bo Liu, Syed Minhaz Hossain	Journal of Luminescence	201		2018	338-344
Quasi-Two-Dimensional Luminescent Silicon Nanosheets	Debosmita Karar, Nil Ratan Bandyopadhyay, Ashit Kumar Pramanick, Debanjan Acharyya, Gavin Conibeer, Niladri Banerjee, Olga E Kusmartseva, Mallar Ray	The Journal of Physical Chemistry C	122	33	2018	18912-18921
Effect of Precipitation Morphology on the Second Harmonic Generation of Ultrasonic Wave During Tempering in P92 Steel	Minati Kumari Sahu, J Swaminathan, Nil Ratan Bandyopadhyay, Sarmistha Palit Sagar	Journal of The Institution of Engineers (India): Series D	98	2	2017	211-217
Electrical transport through array of electrochemically etched silicon nanorods	Ujjwal Ghanta, Sujay Singh, Mallar Ray, Nil Ratan Bandyopadhyay, Sambandamurthy Ganapathy, Syed Minhaz Hossain	physica status solidi (a)	214	6	2017	
Unipolar resistive switching and tunneling oscillations in isolated Si–SiO x core–shell nanostructure	Ujjwal Ghanta, Mallar Ray, Nil Ratan Bandyopadhyay, Syed Minhaz Hossain	Nanotechnology	27	45	2016	1-8

Title	Authors	Journal	Volume	Issue	Year	Pages
Comparative assessment of cyclic JR curve determination by different methods in a pressure vessel steel	Tamshuk Chowdhury, S Sivaprasad, HN Bar, S Tarafder, NR Bandyopadhyay	Journal of Nuclear Materials	472		2016	55-64
Surface Resistance of Jute Fibre/Polylactic Acid Biocomposite to Wet Heat	Clio Zandvliet, NR Bandyopadhyay, Dipa Ray	Journal of The Institution of Engineers (India): Series D	97	1	2016	55-58
Studies of nutrient rich edible leaf blend and its incorporation in extruded food and pasta products	Priyadarshini Chakraborty, Ananya Bhattacharya, DK Bhattacharyya, NR Bandyopadhyay, Minakshi Ghosh	Materials Today: Proceedings	3	10	2016	3473-3483
Trap-assisted Switching in Silicon Nanocrystal based p-i-n Device	Sudipta Chakrabarty, Sourav Mandal, Susmita Biswas, Ashit Kumar Pramanick , Mallar Ray, Syed Minhaz Hossain	IEEE Transactions on Device and Materials Reliability	DOI: 10.1109/ TDMR.2 018.287 8466		2018	
Amorphous Carbon Dots and their Remarkable Ability to Detect 2,4,6-Trinitrophenol	Abu Bakar Siddique, Ashit Kumar Pramanick, Subrata Chatterjee, Mallar Ray	Scientific Reports	8	1	2018	9770
A Two-dimensional Assembly of Luminescent Silicon Nanocrystals at Air-Water Interface	Chayanika Josh, Madhumita Choudhuri, Mallar Ray, Debasree, Chowdhury, P.P.Chattopadhyay, Alokmay Datta	Materials Today: Proceedings	5	3	2018	10143
Study on plasmon-plasmon coupling through Coulombic interaction	AtrayeeHazra, Syed Minhaz Hossain, Malla rRay	Materials Today: Proceedings	5	3	2018	10104
Luminescent Silicon Nanocrystal embedded sodium silicate glass	Bhaskar Das, Syed Minhaz Hossain, Mallar Ray	Materials Today: Proceedings	5	3	2018	10154
Stacked films of silicene like quasi-2D crystalline silicon	Debosmita Karara, Mallar Ray	Materials Today: Proceedings	5	3	2018	10137
Facile synthesis and versatile application of amorphous carbon dot	A. B. Siddique, Vishwa Pratap Singh, S.Chatterjee, AshitKumar Pramanik, Mallar Ray	Materials Today: Proceedings	5	3	2018	10077
Gold-Silver nanostructure: plasmon-plasmon interaction	Atrayee Hazra, Syed Minhaz Hossain, Ashit Kumar Pramanick, Mallar Ray	Vacuum	146		2017	437-443
Enhanced photoluminescence from gold nanoparticle decorated polyaniline nanowire bundle	Aniruddha Samanta, Rupali Gangopadhyay, Chandan Kumar Ghosh and Mallar Ray	RSC Advance	7	44	2017	27473
Mechanical and Chemical Approaches to fabricate luminescent Silicon Nanoparticles	Bhaskar Das, Syed Minhaz Hossain and Mallar Ray	BNS J. Science	3	1	2016	133-138
Thermoelectric properties of Si Nanoparticle-Polyaniline composites	Sayak Dutta Gupta, J.B.M. Krishna, Mallar Ray	IEEE Xplore	DOI: 10. 1109/IE MENTE CH.2017 .807693 4		2017	

Title	Authors	Journal/Source	Vol	Issue	Year	Pages
Silicon based core-shell nanostructures	Atrayee Hazra, Sayak Dutta Gupta, Mallar Ray,	K. Sattler Ed. Silicon Nanomaterials Sourcebook. Taylor & Francis	ISBN 9781498 761918		2017	
Fabrication of chitosan/PEO nanofiber mats with mica by electrospinning	Qi Chen, Zhen Xiang Xin, Prosenjit Saha, Jin Kuk Kim	JOURNAL OF POLYMER ENGINEERING	37	5	2017	461-470
Rapid methylene blue adsorption using modified lignocellulosic materials	Suvendu Manna, Debasis Roy, Prosenjit Saha, Deepu Gopakumar, Sabu Thomas	PROCESS SAFETY AND ENVIRONMENTAL PROTECTION	107		2017	346-356
Functionalized reduced graphene oxide (fRGO) for removal of fulvic acid contaminant	Soumya Kanta Ray, Chanchal Majumder, Prosenjit Saha	RSC ADVANCES	7	35	2017	21768-21779
Fixed bed column study for water defluoridation using neem oil-phenolic resin treated plant bio-sorbent	Suvendu Manna, Prosenjit Saha, Debasis Roy, Basudam Adhikari, Papita Das	JOURNAL OF ENVIRONMENTAL MANAGEMENT	212		2018	424-432
Electrospun chitosan/polycaprolactone-hyaluronic acid bilayered scaffold for potential wound healing applications	Amit Chanda, Jaideep Adhikari, Aritri Ghosh, Sougata Roy Chowdhury, Sabu Thomas, Pallab Datta, Prosenjit Saha	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	116		2018	774-785
Tuning of microstructure in engineered poly (tri methylene terephthalate) based blends with nano inclusion as multifunctional additive	Ajitha A.R, Geethamma V.G, Lovely Mathew, Prosenjit Saha, Nandakumar Kalarikkal, Sabu Thomas, Michał Strankowski	POLYMER TESTING	68		2018	395-404
Devulcanization of waste rubber powder using	Xiaojie Zhang, Prosenjit Saha, Lan Cao, Huan Li,	WASTE MANAGEMENT	78		2018	980-991
Effect of functionalized metal oxides addition on the mechanical, thermal and swelling behaviour of polyester/jute composites	Jaideep Adhikari, Bhabatosh Biswas, Sumit Chabri, Nil Ratan Bandyapadhyay, Pravin Sawai, Bhairab Chandra Mitra, Arijit Sinha	ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH	20	2	2017	760-774
Mechanical properties of metal oxide dispersed jute fiber reinforced polyester biocomposites	Jaideep Adhikari, Bhabatosh Biswas, Sumit Chabri, Nil Ratan Bandyopadhyay, Sudipta Halder, Bhairab Chandra Mitra, Arijit Sinha	POLYMER COMPOSITES	39	S1	2018	E101-E112
Reeb graph based segmentation of articulated components of 3D digital objects	Karmakar N., Biswas A., Bhowmick P.	Theoretical Computer Science	624		2016	25-40
Shape matching of 3D topologically segmented objects	Karmakar N., Biswas A.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9667		2016	170-179
Construction of an approximate 3D orthogonal convex skull	Karmakar N., Biswas A.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9667		2016	180-192

Title	Authors	Publication	Vol	Issue	Year	Pages
Finding largest rectangle inside a digital object	Sarkar A., Biswas A., Dutt M., Bhattacharya A.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9667		2016	157-169
Finding shortest triangular path in a digital object	Sarkar A., Biswas A., Mondal S., Dutt M.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9647		2016	206-218
Long-bone fracture detection in digital X-ray images based on digital-geometric techniques	Bandyopadhyay O., Biswas A., Bhattacharya B.B.	Computer Methods and Programs in Biomedicine	123		2016	Feb-18
A linear-time algorithm to compute the triangular hull of a digital object	Sarkar A., Biswas A., Dutt M., Bhowmick P., Bhattacharya B.B.	Discrete Applied Mathematics			2016	
Selection of In-Domain Like Training Data using Perplexity Minimization for Domain Adaptation in English-Bengali PB-SMT	Koushik Pahari, Sudip Kumar Naskar and Chandan Giri	IEEE Intl. Conf. on Computing and Systms (ICCS)			2016	26-30
Fuzzy C Means based feature extraction and classification of Diabetic Retinopathy using Support Vector Machines	Sabarna Choudhury, Shreyasi Bandyopadhyay, Sk. Latib, Dipak Kole and Chandan Giri	IEEE Intl. Conf. on Communication and Signal Processing (ICCSP)			2016	1520-1525
Fuzzy Node Localization in Wireless Sensor Network	Suman Bhowmik and Chandan Giri	IEEE Intl. Conf. on wireless communications Signal Processing and Networking (WiSPNET)			2016	1112-1116
JU-USAAR : A Domain Adaptive MT System	Koushik Pahari, Alapan Kuila, Santanu Pal, Sudip Kumar Naskar, Chandan Giri, Sivaji Bandyopadhyaya, Josef van Genabith	First Conference of Machine Translation			2016	442-448
Tree Based Tracking Target in Wireless Sensor Network:	Suman Bhowmik, Sushovan Das and Chandan Giri	IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI)			2016	390-397
Selection of In-Domain Like Training Data using Perplexity Minimization for Domain Adaptation in English-Bengali PB-SMT	Koushik Pahari, Sudip Kumar Naskar and Chandan Giri	In Proc. of Intl. Conf. on Computing and Systms (ICCS)			2016	026-030
Tree Based Tracking Target in Wireless Sensor Network	Suman Bhowmik, Sushovan Das and Chandan Giri	in Fourth International Symposium on Intelligent Informatics (ISI)			2016	
A Fuzzy Communication Model of Sensor Nodes in Wireless Sensor Network	Suman Bhowmik and Chandan Giri	Intl. Journal of Sensor Network, Inderscheince	21	1	2016	1-15
Study and analysis of the effects of SiGe source and pocket-doped channel on sensing performance of dielectrically modulated tunnel FET-based biosensors	S Kanungo, S Chattopadhyay, PS Gupta, K Sinha, H Rahaman	IEEE Transactions on Electron Devices	63	6	2016	2589-2596
Reduced thickness interconnect model using GNR to avoid crosstalk effects	S Bhattacharya, D Das, H Rahaman	Journal of Computational Electronics	15	2	2016	367-380

BDD based synthesis technique for design of high-speed memristor based circuits	A Chakraborty, R Das, C Bandopadhyay, H Rahaman	VLSI Design and Test (VDAT), 2016 20th International Symposium on			2016	01-06
High-speed decoder design using memristor-based nano-crossbar architecture	M Kule, A Dutta, H Rahaman, BB Bhattacharya	6th IEEE Embedded Computing and System Design (ISED)			2016	77-81
A Device Simulation-Based Investigation on Dielectrically Modulated Fringing Field-Effect Transistor for Biosensing Applications	S Kanungo, S Chattopadhyay, K Sinha, PS Gupta, H Rahaman	IEEE Sensor Journal	17	5	2016	1399-1406
Impact of gate engineering in enhancement mode n++ GaN/InAlN/AlN/GaN HEMTs	S Adak, SK Swain, H Rahaman, CK Sarkar	Superlattices and Microstructures	100		2016	306-314
Parametric fault detection in analog circuits: A statistical approach	S Srimani, K Ghosh, H Rahaman	2016 IEEE 25th Asian Test Symposium (ATS)			2016	275-280
Optimization of test wrapper for TSV based 3D SOCs	SK Roy, C Giri, H Rahaman	Journal of Electronic Testing	32	5	2016	511-529
Design of content addressable memory cell using carbon nanotube field effect transistors	S Das, D Das, H Rahaman	IEEE TechSym			2016	131-135
Online testing of SMGF in ESOP based reversible circuit	B Mondal, C Bandyopadhyay, H Rahaman	IEEE TechSym			2016	141-146
Design of memristor-based up-down counter using material implication logic	A Chakraborty, A Dhara, H Rahaman	Advances in Computing, Communications and Informatics (ICACCI), IEEE			2016	269-274
Performance analysis of uniaxially strained monolayer black phosphorus and blue phosphorus n-MOSFET and p-MOSFET	L Banerjee, A Mukhopadhyay, A Sengupta, H Rahaman	Journal of Computational Electronics	15	3	2016	919-930
Influence of Channel Length and High-K Oxide Thickness on Subthreshold DC Performance of Graded Channel and Gate Stack DG-MOSFETs	S Adak, SK Swain, A Dutta, H Rahaman, CK Sarkar	Nano (World Scientific)	11	9	2016	1650101
An optoelectronic band-to-band tunnel transistor for near-infrared sensing applications: Device physics, modeling, and simulation	PS Gupta, H Rahaman, K Sinha, S Chattopadhyay	Journal of Applied Physics	120	8	2016	84510
Reliable logic design with defective nano-crossbar architecture	M Kule, H Rahaman, BB Bhattacharya	Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), IEEE			2016	47-52
All optical reversible design of Mach-Zehnder interferometer based Carry-Skip Adder	R Das, C Bandyopadhyay, H Rahaman	Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER),IEEE			2016	73-78
Implementation of combinational circuits via material implication using memristors	A Chakraborty, H Rahaman	Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), IEEE			2016	67-72

A Boolean expression based template matching technique for optical circuit generation	RR Chowdhury, C Bandyopadhyay, P Dutta, H Rahaman	Advances in Information Communication Technology & Computing, ACM			2016	01-35
Modeling and analysis of crosstalk induced overshoot/undershoot effects in multilayer graphene nanoribbon interconnects and its impact on gate oxide reliability	M Sahoo, H Rahaman	Microelectronics Reliability	63		2016	231-238
Reversible synthesis of symmetric functions with a simple regular structure and easy testability	A Deb, DK Das, H Rahaman, R Wille, R Drechsler, BB Bhattacharya	ACM Journal on Emerging Technologies in Computing Systems (JETC) 12 (4), 34	12	4	2016	34
Nearest-neighbor and fault-tolerant quantum circuit implementation	L Biswal, C Bandyopadhyay, A Chattopadhyay, R Wille, R Drechsler,H.Rahaman	Multiple-Valued Logic (ISMVL), 2016 IEEE 46th International Symposium on			2016	156-161
Impact of mutual inductance on the crosstalk induced effects in single-walled carbon nanotube bundle interconnects	M Sahoo, H Rahaman	Devices, Circuits and Systems (ICDCS), 2016 3rd International Conference on			2016	286-290
Investigating the applicability of graphene nanoribbon as signal and power interconnects for nanometer designs	D Das, H Rahaman	Journal of Circuits, Systems and Computers 25 (02), 1650001	25	2	2016	1650001
Design of 9-transistor content addressable memory cells using Schottky-barrier carbon nanotube field effect transistors	S.Das, D.Das, H.Rahaman	Microelectronics, Computing and Communications (MicroCom), 2016			2016	
A new heterogeneous droplet routing technique and its simulator to improve route performance in digital microfluidic biochips	R Bhattacharya, H Rahaman, P Roy	Microelectronics, Computing and Communications (MicroCom), 2016			2016	1-6
Improving the Realization of Multiple-Control Toffoli Gates Using the NCVW Quantum Gate Library	L Biswal, C Bandyopadhyay, R Wille, R Drechsler, H Rahaman	VLSI Design and 2016 15th International Conference on Embedded Systems			2016	
Analysis of temperature dependent power supply voltage drop in graphene nanoribbon and Cu based power interconnects	S Bhattacharya, D Das, H Rahaman	AIMS Materials Science	3	4	2016	1493-1506
A New FPGA and Programmable SoC Based VLSI Architecture for Histogram Generation of Grayscale Images for Image Processing Applications	S Hazra, S Ghosh, SP Maity, H Rahaman	Procedia Computer Science	93		2016	139-145
Temperature dependent IR-Drop analysis in graphene nanoribbon based power interconnect	S Bhattacharya, D Das, H Rahaman	Journal of Nano and Electronic Physics	8	1	2016	010011-010014
Mobile Sink Based Fault Diagnosis Scheme for Wireless Sensor Networks	Prasenjit Chanak, Indrajit Banerjee, R. S. Sherratt	The Journal of System Software (Elsevier)	119		2016	45–57

Title	Authors	Publication	Vol	Issue	Year	Pages
Fuzzy rule-based faulty node classification and management scheme for large scale wireless sensor networks	Prasenjit Chanak, Indrajit Banerjee	Expert Systems with Applications (Elsevier)	45		2016	307-321
Efficient Polling Point Determination and Physical Model based Throughput Maximisation in Wireless Sensor Network	Nimisha Ghosh, Indrajit Banerjee	Accepted in 24th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2016)			2016	
mSTROKE: a crowd-powered mobility towards stroke recognition	R. Tibrewal, A. Singh and M. Bhattacharyya	18th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)	-	-	2016	645-650
Identifying microRNAs related to Alzheimer's disease from differential methylation signatures	A. Roy and M. Bhattacharyya	Gene Reports	4	-	2016	104-111
Identifying significant microRNA–mRNA pairs associated with breast cancer subtypes	M. Bhattacharyya, J. Nath and S. Bandyopadhyay	Molecular Biology Reports	43	7	2016	591-599
The Curse of Competitive Crowd Intelligence	M. Bhattacharyya	AAAI 2016 Spring Symposium on Intelligent Systems for Supporting Distributed Human Teamwork (Teamwork)	SS-16	-	2016	264-267
Dynamic Congestion Analysis for Better Traffic Management Using Social Media	S. Chatterjee, S. K. Mridha, S. Bhattacharyya, S. Shakhari and M. Bhattacharyya	Springer Smart Innovation, Systems and Technologies	51	2	2016	85-95
STA: A highly scalable low latency butterfly fat tree based 3D NoC design	Bose, A., Ghosal, P., Mohanty, S.P.	Proceedings of IEEE Computer Society Annual Symposium on VLSI, ISVLSI	7560247		2016	496-501
Computing in Ribosomes: Implementing Sequential Circuits using mRNA-Ribosome System	Pratima Chatterjee, Mayukh Sarkar and Prasun Ghosal	IEEE International Symposium on Nanoelectronic and Information Systems (iNIS 2016)	7829558		2016	260-265

Enterprise application security in android devices using short messaging service under unified communication framework	Chowdhury, S., Ghosal, P.	Proceedings 2015 IEEE 12th International Conference on Ubiquitous Intelligence and Computing, 2015 IEEE 12th International Conference on Advanced and Trusted Computing, 2015 IEEE 15th International Conference on Scalable Computing and Communications, 2015 IEEE International Conference on Cloud and Big Data Computing, 2015 IEEE International Conference on Internet of People and Associated Symposia/Workshops, UICATCScalComCBDComIoP 2015	7518319		2016	694-697
Addressing hardware security challenges in internet of things: Recent trends and possible solutions	Koley, S., Ghosal, P.	Proceedings 2015 IEEE 12th International Conference on Ubiquitous Intelligence and Computing, 2015 IEEE 12th International Conference on Advanced and Trusted Computing, 2015 IEEE 15th International Conference on Scalable Computing and Communications, 2015 IEEE International Conference on Cloud and Big Data Computing, 2015 IEEE International Conference on Internet of People and Associated Symposia/Workshops, UICATCScalComCBDComIoP 2015	7518319		2016	694-697

Title	Authors	Journal/Conference	Vol	Issue	Year	Pages
Minimal reversible circuit synthesis on a DNA computer	Sarkar, M., Ghosal, P., Mohanty, S.P.	Natural Computing	16	3	2016	463-472
Design of a highperformance cdmabased broadcastfree photonic multicore network on chip	Poddar, S., Ghosal, P., Rahaman, H.	ACM Transactions on Embedded Computing Systems	15	1	2016	2:1-2:30
Routing solution over a multilayered Network on Chip	Dutta, S., Ghosal, P.	2015 IEEE International Conference on Electronics, Computing and Communication Technologies, CONECCT 2015	7383943		2016	
Fuzzroute: A thermally efficient congestionfree global routing method for threedimensional integrated circuits	Roy, D., Ghosal, P., Mohanty, S.	ACM Transactions on Design Automation of Electronic Systems	21	1	2016	1
Implementing data structure using DNA: An alternative in post CMOS computing	Sarkar, M., Ghosal, P.	Proceedings of IEEE Computer Society Annual Symposium on VLSI, ISVLSI	7309591		2016	345-349
A Scalable Hierarchical Ring Based Wireless Network-on-Chip	Munshi Mostafijur Rahaman, Prasun Ghosal, Siddhartha Biswas	15th International Conference on Information Technology (ICIT)			2016	154-159
A Provably Good Method to Generate Good DNA Sequences	Swapan Shakhari, Prasun Ghosal, Mayukh Sarkar	IEEE International Symposium on Nanoelectronic and Information Systems (iNIS 2016)			2016	134-138
Post CMOS Computing Beyond Si: DNA Computer as Future Alternative	Mayukh Sarkar, Prasun Ghosal	IEEE International Symposium on Nanoelectronic and Information Systems (iNIS 2016)			2016	129-133
Mathematics using DNA: Performing GCD and LCM on a DNA Computer	Mayukh Sarkar and Prasun Ghosal	IEEE International Symposium on Nanoelectronic and Information Systems (iNIS 2016)			2016	240-243
Computing in Ribosomes: Performing Boolean Logic Using mRNA-Ribosome System	Pratima Chatterjee, Mayukh Sarkar, Prasun Ghosal	2016 IEEE CS Annual Symposium on VLSI (ISVLSI)			2016	230-235
On Optimal Fuzzy C-Means Clustering for Energy Efficient Cooperative Spectrum Sensing in Cognitive Radio Networks	Santi P. Maity, S. Chaterjee and T. Acharya	Digital Signal Processing, Elsevier	49	February	2016	104-115
Retinal Blood Vessel Extraction using Tunable Bandpass Filter and Fuzzy Conditional Entropy	Sudeshna Sil Kar and Santi P. Maity	Journal of Computer Methods and Programs in Biomedicine, Elsevier	133		2016	111-132

Blood Vessel Extraction and Optic Disc Removal using Curvelet Transform and Kernel Fuzzy C-Means	Sudeshna Sil Kar and Santi P. Maity	Journal of Computers in Biology and Medicine, Elsevier	70	2	2016	174-189
On Adaptive Distortion Control in Reversible Watermarking using Modified Reversible Contrast Mapping,	Santi P. Maity and Hirak Maity	Multimedia Tools and Applications, Springer	75	13	2016	7931-7956
PEE based RW using Fuzzy Conditional Entropy for Image Partitioning	Hirak Maity and Santi P. Maity	Journal of Electronics and Communication, Elsevier	70	3	2016	211-224
On Energy Minimization in Cooperative Spectrum Sensing using LRT in Presence of Emulation Attack	Avik Banerjee and Santi P. Maity	IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS 2016), Bangalore			2016	
On Improved CS-SS Image Watermark Detection Over Radio Mobile Channel	Anirban Bose and Santi P. Maity	Tenth Indian Conference on Computer Vision, Graphics and Image Processing, (ICVGIP 2016), IIT Guwahati			2016	
Improved Spread Spectrum Compressive Image Watermark Detection with Distortion Minimization	Anriban Bose and Santi P. Maity	Eleventh Int. Conference on Signal Processing and Communications, IISC, Bangalore			2016	
Trade-off on Spectrum-Energy Efficiency in Cooperative Cognitive Radio Networks	S. Chatterjee, Santi P. Maity and Tamaghna Acharya	Eleventh Int. Conference on Signal Processing and Communications, IISC, Bangalore			2016	
Blood Vessel Segmentation Using Matched Filter and Laplacian of Gaussian	D. Kumar, A. Pramanik. S. Sil Kar, Santi P. Maity,	Eleventh Int. Conference on Signal Processing and Communications, IISC, Bangalore			2016	
Differential Evolution Based Optimal Clustering for Retinal Blood Vessel Extraction	S. Sil Kar and Santi P. Maity	Int. Conf. on Informatics, Electronics and Vision,, Dhaka, Bangladesh			2016	
Prediction Error Based Secret Image Transmission over Radio Mobile Channel	T. Bhattacharjee, Santi P. Maity, A. Ray	International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai-603110, India			2016	
Graph Cut Method for Automatic Tumor Detection in Prediction based Reconstructed MR Images	A. Ray and Santi P. Maity	International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai-603110, India			2016	
Reversibility of d-State Finite Cellular Automata	Kamalika Bhattacharjee and Sukanta Das	J. Cellular Automata	11	2-3	2016	213-245

Title	Authors	Journal	Vol	Issue	Year	Pages
Asynchronous Cellular Automata and Pattern Classification. Complexity	Biswanath Sethi, Souvik Roy and Sukanta Das	Complexity	21	S1	2016	370 - 386
On Synthesis of Non-uniform Cellular Automata Having only Point Attractors	Sumit Adak, Nazma Naskar, Pradipta Maji and Sukanta Das	J. Cellular Automata	12	1-2	2016	104-111
Non-uniform cellular automata	Sukanta Das, Enrico Formenti and Jarkko Kari	Theoretical Computer Science	559	1-2	2016	591-599
Pseudorandom Pattern Generation Using 3-State Cellular Automata	Kamalika Bhattacharjee, Dipanjyoti Paul, Sukanta Das	ACRI 2016			2016	3-13
Scalability of Non-uniform Cellular Automata Having only Point State Attractors	Nazma Naskar, Sukanta Das	ACRI 2016			2016	55-65
On the Use of Asynchronous Cellular Automata in Symmetric-Key Cryptography	SSCC 2016	Biswanath Sethi, Sukanta Das			2016	30-41
Vulnerability Detection and Error Minimization in Bioassay Sample Mixing and Droplet Routing for Digital Microfluidic Biochips	Ankita Singh, Tuhina Samanta	Sixth International Symposium on Embedded Computing and System Design (ISED)			2016	
A Node Deployment Mechanism Accounting Into Received Signal Strength and Frequency Diversity for a Wireless Sensor Network	Mrinmoy Sen, Indrajit Banerjee, Mainak Chatterjee, and Tuhina Samanta	in proceedings of IEEE Sensors October 2016, Florida, USA,			2016	
Algorithm for fault localization on a digital microfluidic biochip using particle swarm optimization technique	Subhamita Mukherjee, Indrajit Pan, Tuhina Samanta	IEEE International Symposium on Circuits and Systems, ISCAS 2016, Montréal, Canada			2016	602-605
Adaptive Slot Sharing based TDMA Technique for Routing in an Obstructed Wireless Sensor Network	Supantha Das, Indrajit Banerjee, Mainak Chatterjee and TuhinaSamanta	Second International Conference on Information and Communication Technology for Competitive Strategies (ICTCS, Udaipur)			2016	50
A Generic Defect Aware Heuristic Approach for Droplet Routing in a Digital Microfluidic Biochip with Minimal Pin Assignment	Subhamita Mukherjee, Indrajit Pan, and Tuhina Samanta	Second International Conference on Information and Communication Technology for Competitive Strategies (ICTCS, Udaipur)			2016	7
Design of High Performance CDMA based broadcast-free photonic Multi-core network on chip	Poddar, Soumyajit; Ghosal, Prasun; Rahaman, Hafizur	ACM TRANSACTIONS ON EMBEDDED COMPUTING SYSTEMS	15		2016	
Structural feature analysis of the vascular network in retinal images	Bandyopadhyay, O., T. Dutta, N. Dutta, A. Biswas, and B. B. Bhattacharya	Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 1-12.			2017	1-12
On Representing a Simple Polygon Perceivable to a Blind Person	Banerjee, S., B. B. Bhattacharya, B. Bhattacharya, A. Biswas, S. Das, R. Mandal, and S. Roy	Information Processing Letters 120			2017	1-5
Triangular Covers of a Digital Object.	Biswas, A., P. Bhowmick, B. B. Bhattacharya, B. Das, M. Dutt, and A. Sarkar	Journal of Applied Mathematics and Computing			2017	

Title	Authors	Publication	Vol/No		Year	Pages
A Supervised Learning Approach for Authorship Attribution of Bengali Literary Texts	Phani, S., S. Lahiri, and A. Biswas	ACM Transaction Asian Low-Resource Language Information Processing 16(4), 20-27.			2017	20-27
A Linear-Time Algorithm to Compute the Triangular Hull of a Digital Objec	Sarkar, A., A. Biswas, M. Dutt, P. Bhowmick, and B. B. Bhattacharya	Discrete Applied Mathematics 216.			2017	408-423
Does Rotation Influence the Estimated Contour Length of A Digital Object	Sabyasachi Mukherjee, Oishila Bandyopadhyay, Arindam Biswas, Bhargab B. Bhattacharya	Pattern Recognition and Machine Intelligence			2017	179-186
Extraction of Distinct Bifurcation Points from Retinal Fundus Images	Roy N.D., Suchismita Goswami, Sushmita Goswami, Sohini De, Arindam Biswas	The First International Conference on Intelligent Computing and Communication. Advances in Intelligent Systems and Computing, Springer, Singapore.	458		2017	443-450
A Study on the Properties of 3D Digital Straight Line Segments	M. Dutt, S. Saha, and A. Biswas	7th International Conference on Pattern Recognition and Machine Intelligence: PReMI'17, Kolkata			2017	212-218
A 3D Curve Skeletonization Method. In: Brimkov V., Barneva R. (eds) Combinatorial Image Analysis.	Karmakar N., Mondal S., Biswas A	Lecture Notes in Computer Science, vol . Springer	10256		2017	184-197
Balancing Energy Saving and Latency in Mobile Collector Based Delay Sensitive Wireless Sensor Network	Srijit Chowdhury and Chandan Giri	IEEE Intl. Conf. on wireless communications Signal Processing and Networking (WiSPNET)			2017	2074-2080
Design of Asynchronous Semantic Preamble Listening for Semantic Sensor Network to Avoid Early Overhearing	Sushovan Das, Suman Bhowmik and Chandan Giri	IEEE Intl. Conf. on wireless communications Signal Processing and Networking (WiSPNET)			2017	420-424
MESNET: Mobile Sink Based Energy Saving Network Management in Wireless Sensor Network	Srijit Chowdhury and Chandan Giri	Computational Intelligence, Communications, and Business Analytics (CICBA), Springer, CCIS series			2017	308-321
Faulty TSVs Identification in 3D IC using Pre-bond Testing	Dilip Maity, Surajit Kumar Roy and Chandan Giri	VLSI Design and Test (VDAT), Springer			2017	805-812
Modeling and Analysis of Transient Heat for 3D IC	Shubhajit Chatterjee, Surajit Kumar Roy, Chandan Giri and Hafizur Rahman	VLSI Design and Test (VDAT), Springer			2017	365-375
Design-for-test and test time optimisation for 3D SOCs	Surajit Kumar Roy and Chandan Giri	IEEE International Test Conference (ITC)			2017	1-10
Testing TSVs for Micro-void and Pinhole Defects using OTA	Procheta Chatterjee, Surajit Kumar Roy, Hafizur Rahaman and Chandan Giri	IEEE International Test Conference (ITC)			2017	

TSV Repairing for 3D ICs using Redundant TSVs	Sudeep Ghosh, Surajit Kumar Roy, Hafizur Rahaman and Chandan Giri	IEEE International Symposium on Embedded Computing and System Design (ISED)			2017	1-5
End Device Energy Optimization in ASPL for Semantic Sensor Network	Sushovan Das, Suman Bhowmik and Chandan Giri	IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)			2017	1-6
Energy-aware distributed routing algorithm to tolerate network failure in wireless sensor networks	Prasenjit Chanak, Indrajit Banerjee, Robert Simon Sherratt:	Ad Hoc Networks 56: 158-172 (2017)	56		2017	158-172
An efficient trajectory based routing scheme for delay-sensitive data in wireless sensor network.	Nimisha Ghosh, Riddhiman Sett, Indrajit Banerjee:	Computers & Electrical Engineering 64: 288-304 (2017)	64		2017	288-304
IoT-Based Sensor Data Fusion for Occupancy Sensing Using Dempster-Shafer Evidence Theory for Smart Buildings.	Nashreen Nesa, Indrajit Banerjee:	IEEE Internet of Things Journal 4(5): 1563-1570 (2017)	45		2017	1563-1570
A Novel Priority Based Exigent Data Diffusion Approach for Urban VANets	Chinmoy Ghorai, Indrajit Banerjee:	ICDCN 2017: 24			2017	111-124
Energy Aware Cluster Head Load Balancing Scheme for Heterogeneous Wireless Ad Hoc Network	Rupam Some, Tuhina Samanta, Indrajit Banerjee:	ICDCN 2017: 24		`	2017	135-148
A Novel Priority Based Exigent Data Diffusion Approach for Urban VANets (Accepted)	Chinmoy Ghorai, Indrajit Banerjee	18th ACM International Conference on Distributed Computing and Networking (ICDCN 2017)			2017	
A Multi-objective Data Dissemination Protocol for Intelligent Transportation Systems (Accepted)	Chinmoy Ghorai, Indrajit Banerjee	IEEE International Advance Computing Conference (IACC-2017)			2017	
Convoy Tree Based Fuzzy Target Tracking in Wireless Sensor Network	Suman Bhowmik and Chandan Giri	International Journal of Wireless Information Networks (IJWI), Springer	24	4	2017	476-486
Design-for-test and test time optimisation for 3D SOCs	Surajit Kumar Roy and Chandan Giri	IEEE International Test Conference (ITC)			2017	1-10
All optical design of cost efficient multiplier circuit using terahertz optical asymmetric demultiplexer	A Manna, S Saha, R Das, C Bandyopadhyay, H Rahaman	7th IEEE Embedded Computing and System Design (ISED)			2017	01-05
Selectivity tuning of graphene oxide based reliable gas sensor devices by tailoring the oxygen functional groups: a DFT study based approach	I Maity, K Ghosh, H Rahaman, P Bhattacharyya	IEEE Transactions on Device and Materials Reliability	17	4	2017	738-745

Title	Authors	Journal	Vol	Issue	Year	Pages
Parametric fault detection of analog circuits based on Bhattacharyya measure	S Srimani, MK Parai, K Ghosh, H Rahaman	Analog Integrated Circuits and Signal Processing	93	3	2017	477-488
Potentiality of Density-Functional Theory in Analyzing the Devices Containing Graphene-Crystalline Solid Interfaces: A Review	K Ghosh, H Rahaman, P Bhattacharyya	IEEE Transactions on Electron Devices 64 (11), 4738-4745	64	11	2017	4738-4745
Design and Investigation on Bioinverter and Bioring-Oscillator for Dielectrically Modulated Biosensing Applications	S Kanungo, SA Mondal, S Chattopadhyay, H Rahaman	IEEE Transactions on Nanotechnology	16	6	2017	974-981
Effect of temperature & phonon scattering on the drain current of a MOSFET using SL-MoS2 as its channel material	S Tiwari, S Dolai, H Rahaman, PS Gupta	Superlattices and Microstructures	111		2017	912-921
Modeling and Performance Analysis of Graphene Nanoribbon Interconnects	S Bhattacharya, D Das, H Rahaman	National Academy Science Letters	40	5	2017	325-329
A technique to incorporate both tensile and compressive channel stress in Ge FinFET architecture	K Sinha, S Chattopadhyay, PS Gupta, H Rahaman	Journal of Computational Electronics	16	3	2017	620-630
Stability Analysis in Top-Contact and Side-Contact Graphene Nanoribbon Interconnects	S Bhattacharya, D Das, H Rahaman	IETE Journal of Research	63	4	2017	588-596
Tuning of electronic properties of edge oxidized armchair graphene nanoribbon by the variation of oxygen amounts and positions	I Maity, K Ghosh, H Rahaman, P Bhattacharyya	Journal of Materials Science: Materials in Electronics	28	12	2017	9039-9047
Analysis of crosstalk-induced effects in multilayer graphene nanoribbon interconnects	M Sahoo, H Rahaman	Journal of Circuits, Systems and Computers 26 (06), 1750102	26	6	2017	1750102
A novel image encryption technique using one dimensional chaotic map and circular shift	Priyajit Biswas, Shyamalendu Kandar, Bibhas Chandra Dhara:	International Conference on Software and Computer Applications			2017	112-116
A Probabilistic Approach to Group Decision Making	Sujoy Chatterjee, Malay Bhattacharyya	Computer Human Interaction			2017	2445-2451
Judgment Analysis Based on Crowdsourced Opinions	Sujoy Chatterjee, Anirban Mukhopadhyay, Malay Bhattacharyya	International Conference on Data Engineering (ICDE)			2017	1439-1443
Identifying Unsafe Videos on Online Public Media using Real-time Crowdsourcing	Sankar Kumar Mridha, Braznev Sarkar, Sujoy Chatterjee, Malay Bhattacharyya	The Computing Research Repository (CoRR)			2017	
Quality Enhancement by Weighted Rank Aggregation of Crowd Opinion	Sujoy Chatterjee, Anirban Mukhopadhyay, Malay Bhattacharyya	The Computing Research Repository (CoRR)			2017	
Biological networks in Parkinson's disease: an insight into the epigenetic mechanisms associated with this disease	Chatterjee, Paulami; Roy, Debjani; Bhattacharyya, Malay; et al.	SPRINGER, VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS	18		2017	

Title	Authors	Journal	Vol	Issue	Year	Pages
The conserved phylogeny of blood microbiome	Bhattacharyya, Malay; Ghosh, Tuhin; Shankar, Sujit;	MOLECULAR PHYLOGENETICS AND EVOLUTION,ACADEMIC PRESS INC ELSEVIER SCIENCE	109		2017	404-408
Dependent judgment analysis: A Markov chain based approach for aggregating crowdsourced opinions	Sujoy Chatterjee, Anirban Mukhopadhyay, Malay Bhattacharyya	Information Sciences	396		2017	83-96
Constrained crowd judgment analysis"	Sujoy Chatterjee, Anirban Mukhopadhyay, Malay Bhattacharyya with Martin Vesely as coordinator	SIGWEB Newsletter	2017		2017	
Pareto optimization technique in actuation control for error minimization and reliability analysis in an operational pin-constrained digital microfluidic biochip	Subhamita Mukherjee, Indrajit Pan, Tuhina Samanta	Integration	59		2017	125-134
Energy Aware Cluster Head Load Balancing Scheme for Heterogeneous Wireless Ad Hoc Network	Rupam Some, Tuhina Samanta, Indrajit Banerjee	ICDCN			2017	
Joint Power Allocation and Route Selection for Outage Minimization in Multihop Cognitive Radio Networks with Energy Harvesting	A. Baneerjee, A. Paul, S. P. Maity	IEEE Transactions on Cognitive Communications and Networking	4	1	2017	82-92
On Optimal Sample Checkpoint for Energy Efficient Cooperative Spectrum Sensing	A. Banerjee, S. P. Maity	Digital Signal Processing Journal, Elsevier	74		2017	56-71
On Detection Improvement in MC-CDMA Image Watermarking on Fading Channel	S. P. Maity and S. Maity	Wireless Personal Communication, Springer			2017	
On CS Image Reconstruction using LDPC Code over Radio Mobile Channel	A. Pramanik, S. P. Maity	Wireless Personal Communication, Springer			2017	
Spread Spectrum Image Watermark Detection on Degraded Compressed Sensing Measurements with Distortion Minimization	A. Bose and Santi P. Maity	Multimedia Tools and Applications , Springer	77	16	2017	20783-20808
Hierarchical Secret Image Sharing Scheme in Compressed Sensing, Journal of Signal Processing	T. Bhattacharjee, Santi P. Maity, Sk. Rafiul Islam	Journal of Signal Processing: Image Communication , Elseivier			2017	
On Prediction Error Compressed Sensing Image Reconstruction for Face Recognition	S. Biswas, J. Sil, S. P. Maity	Journal of Computers and Electrical Engineering, Elsevier	70		2017	722-735
On Outage Minimization in Cognitive Radio Networks through Routing and Power Control	Anal Paul and Santi P. Maity	Wireless Personal Communication, Springer	98	1	2017	251-269
Outage analysis in two-way communication with RF energyharvesting relay and co-channel interference	Sutanu Ghosh, Tamaghna Acharya, Santi P. Maity	Transactions on Emerging Telecommunications Technologies, Wiley	28	12	2017	

Title	Authors	Journal/Conference	Vol	Issue	Year	Pages
Optimality in Distortion Control in Reversible Watermarking using Genetic Algorithms	Santi P. Maity and Hirak Maity	International Journal of Image and Graphics, World Scientific	17	3	2017	
Spread Spectrum Watermark Detection on Degraded Compressed Sensing	Anirban Bose, Santi P. Maity	IEEE Sensors Letters	1	5	2017	
Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy	Sudeshna Sil Kar, Santi P. Maity	IEEE Transactions on Biomedical Engineering	65	3	2017	608-618
An image -in -image communication scheme using scerete sharing and M-ary spread spectrum water marking	Bhattacharjee, Tapasi; Maity, Santi P.	SPRINGER, 233 SPRING ST, NEW YORK, NY 10013 USA	23	9	2017	4263-4276
Detection of Neovascularization in Retinal Images using Mutual Information Maximization	Sudeshna Sil Kar, Santi P. Maity	Journal Of Computers and Electrical Engineering, Elsevier	62		2017	194-208
Affine Boolean Classification in Secret Image Sharing for Progressive Quality Access Control	Tapashi Bhattacharjee, Ranjeet Kumar Rout, Santi P. Maity	Journal of Information Security and Applications, Elsevier	33		2017	16-29
Pre-cancer Risk Assessment in Habitual Smokers from DIC Images of Oral Exfoliative Cell using Active Contour and SVM Analysis	Sushmita Dey, Ripon Sarkar, Kabita Chakraborty, Pallab Dutta, Ananya Barui, Santi P. Maity	Journal of Tissue and Cell, Elsevier	DOI: 10.1016/j.tice.2017.01.009		2017	
On CS Image Reconstruction by High Rate Non-Binary Low Density Parity Check Code over GF(q)	Ankita Pramanik, Santi P. Maity, Arihant Sethia	Microsystem Technologies, Springer	DOI 10.1007/s00542-017-3351-7		2017	
Optimal Combining Fusion on Degraded Compressed Sensing Image Reconstruction	Sk. Rafiul Islam, Santi P. Maity, Ajoy K. Ray	Journal of Signal Processing: Image Communication, Elseivier	52		2017	173-182
Optimal Cluster Power for Joint Spectrum Sensing and Secondary Data Transmission in	Anal Paul and Santi P. Maity	IEEE International Conference on Advanced Networks and			2017	
'Residual Energy Maximization in Cooperative Spectrum Sensing with Energy Harvesting	Avik Banerjee and Santi P. Maity	National Conference on Communications NCC2017 , IIT Madras			2017	
Outage Analysis in DF Relay Assisted Two-Way Communication with RF Energy Harvesting	Sutanu Ghosh, Tamaghna Acharya, Santi P. Maity	21st International ITG Workshop on Smart Antennas, March 15-17, 2017 Berlin, Germany			2017	
On Residual Energy Maximization in Energy Harvesting Cognitive Radio Network	Avik Banerjee and Santi P. Maity, Subhabrata Ray	IEEE WCNC 2017 (Accepted), San Fransisco, CA, USA			2017	
CS Regularized SENSE pMRI Reconstruction via Interferometric Modulation	Rafiul Islam, Santi P. Maity and Ajoy Kr. Ray	International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), SSN College of Engineering, Chennai, India.			2017	

Non-Binary LDPC Codes for Compressed Sensing Image Reconstruction on AWGN Channel	Ankita Pramanik, Santi P. Maity	International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), SSN College of Engineering, Chennai, India.			2017	
Computing in Ribosome : Logic Gates Implementation using mRNA-Ribosome System	Pratima Chatterjee, Prasun Ghosal	CSI Transactions on ICT,Springer	6	1	2017	1-12
Exploring the Feasibility of a DNA Computer: Design of an ALU using Sticker Based DNA Model	Mayukh Sarkar , Prasun Ghosal, and Saraju P. Mohanty	IEEE Transactions on NanoBioscience	16	6	2017	383-399
MSM: Performance Enhancing Area and Congestion Aware Network-on-Chip Architecture	Tuhin Subhra Das, Prasun Ghosal	IEEE International Symposium on Nanoelectronic and Information Systems (iNIS 2017)			2017	257-262
Realizing All Logic Operations using mRNA-Ribosome System as a Post Si Alternative	Pratima Chatterjee, Prasun Ghosal	IEEE International Symposium on Nanoelectronic and Information Systems (iNIS 2017)			2017	40-45
Performing Mathematics using DNA: Complex Number Arithmetic using Sticker Mode	Mayukh Sarkar, Prasun Ghosal	2017 IEEE CS Annual Symposium on VLSI (ISVLSI)			2017	568-573
An IoT Enabled Real-Time Communication and Location Tracking System for Vehicular Emergency	Subha Koley, Prasun Ghosal	2017 IEEE CS Annual Symposium on VLSI			2017	671-676
Brain Computer Interfacing: A Spectrum Estimation Based Neurophysiological Signal Interpretation	Debojyoti Seth, Debashis Chakraborty, Prasun Ghosal, Salil Kumar Sanyal	4th International Conference on Signal Processing and Integrated Networks (SPIN 2007)			2017	534-539
Pseudo-random number generation using a 3-state cellular automaton	Kamalika Bhattacharjee, Dipanjyoti Paul, Sukanta Das	International Journal of Modern Physics C	28	6	2017	1750078
Distributed Mutual Exclusion Problem in Cellular Automata	Souvik Roy, Sukanta Das	Journal of Cellular Automata	12	6	2017	493-521
A novel image encryption technique using one dimensional chaotic map and circular shift technique	Biswas, P., Kandar, S., Dhara, B.C.	ACM International Conference Proceeding Series			2017	112-116
On Throughput Maximization in Cooperative Cognitive Radio Networks with Eavesdropping	Avik Banerjee, Santi P. Maity and Ritesh Kumar Das	IEEE Communication Letters (Accepted)	DOI:10.1109/LCOMM.2018.2875749		2018	

Title	Authors	Journal	DOI/Vol		Year	Pages
On Residual Energy Maximization in Cognitive Relay Networks with Eavesdropping	Avik Banjerjee and Santi P. Maity	IEEE System Journal (Accepted)	DOI: 10.1109/ JSYST.2 018.287 3891		2018	
Allocation of Optimal Energy in an Energy-Harvesting Cooperative Multi-band Cognitive Radio Network	Abhijit Bhowmik, Gopal Ch. Das, Sanjoy Dhar Ray, Sumit Kundu, Santi P. Maity	Wireless Networks, Springer Verlag (Accepted)	DOI: 10.1007/ s11276-018-1849-2		2018	
Energy efficiency in cooperative cognitive radio network in the presence of malicious users	Chatterjee, S., Maity, S.P., Acharya, T.	IEEE Systems Journal	12(3),77 90889		2018	2197-2206
Compressed Sensing Image Reconstruction by Low Density Parity Check codes and Soft Decoding of Space Time Block Codes	A. Pramanik, S. P. Maity, S. Sarkar,	Journal of Computers and Electrical Engineering (Accepted)			2018	
On Curvelet CS Reconstructed MR Images and GA based Fuzzy Conditional Entropy Maximization for Segmentation	Apurba Ray and Santi P. Maity	International Journal of Wavelets, Multiresolution and Information Processing (Accepted)	DOI: 10.1142/ S021969 1319500 036		2018	
A Smart System of 3D Liver Tumor Segmentation	Ankur Biswas, Paritosh Bhattacharya, Santi P. Maity	International Journal of Product Development, Inderscience (Accepted)			2018	
On Multi-Channel Compressed Sensing Watermarked Image Transmission with Detection Reliability	A. Bose, S. P. Maity	Microsystem Technologies (Accepted)			2018	
Gradation of Diabetic Retinopathy on Reconstructed Image using Compressed Sensing	S. Sil Kar, S. P. Maity	IET Image Processing	12	11	2018	1956-1963
Plateau limit based tri-histogram equalization for image enhancement	A. Paul, P. P. Bhattacharya, S. P. Maity, B. Bhattachrya	IET Image Processing	12	9	2018	1617-1625
On Outage Secrecy Minimization in an Energy Harvesting Relay Assisted Cognitive Radio Networks	Avik Banerjee, Santi P. Maity and Subhabrata Ray	IET Communications (Accepted)			2018	
Automatic MR Image Segmentation using Maximization of Mutual Information	Apurba Ray and Santi P. Maity	Microsystem Technologies (Accepted)			2018	

Precise Segmentation and Classification of Epithelial Rete-pegs Signature in Assessing Lower Limb Wound Healing Progression	Susmita Dey, Asmita Ra1, Narayan Chandra Maiti, Provas Banerjee, Jyotirmoy Chatterjee, Santi Prasad Maity, Amit Roychowdhury, Ananya Barui	Journal of Medical and Biological Engineering (Accepted)		2018	
Differential Evolution in PFCM Clustering for Energy Efficient Cooperative Spectrum Sensing	Anal Paul and Santi P. Maity	Advances in Intelligent Computing, Studies of Computational Intelligence, Springer		2018	
On joint maximization in energy-spectral efficiency in cooperative cognitive radio networks	Santi P. Maity, Anal Paul	Multi-objective Optimization, Springer		2018	141-157
Automated Detection of Early Oral Cancer Trends in Habitual Smokers*s*	Susmita Dey, Dewaki N. Tibarewala, Santi P. Maity and Ananya	Soft Computing Based Medical Image Analysis, Publisher: Academic Press		2018	83-107
, Classification of Sonoelastography Images of Prostate Cancer Using Transformation Based Feature Extraction Techniques	Koushik Layek, Sourav Samanta, Anup Sadhu, Santi P. Maity, Ananya Barui	Soft Computing Based Medical Image Analysis, Publisher: Academic Press		2018	245-269
On outage minimization in relay assisted cognitive radio networks with energy harvesting	Avik Banerjee and Santi P. Maity	Ad Hoc Networks, Elsevier Journal	82	2018	46-55
On Outage Secrecy Minimization Using Jammer Selection in Energy Harvesting Cognitive Radio	Avik Banerjee, Ritesh Das, Santi P. Maity	12 th Int. Conference on Signal Processing and Communication (SPCOM 2018)		2018	
On Outage Analysis in Cooperative Cognitive Radio Network with RF Energy Harvesting	Sutanu Ghosh, Tamaghna Acharya, Santi P. Maity,	12 th Int. Conference on Signal Processing and Communication (SPCOM 2018)		2018	
Affine Boolean Classification with FPGA Implementation on Secret Image Sharing	Tapashi Bhattacharjee, Hirak Maity and Santi P. Maity	12 th Int. Conference on Signal Processing and Communication (SPCOM 2018)		2018	
Optimal Geometric Active Contours: Application to Human Brain Segmentation	A Biswas, S. P. Maity, P Bhattacharya	52nd Annual Convention of the Computer Society		2018	
Bone Cancer Assessment and Destruction Pattern Analysis in Long-Bone X-ray Image.	Oishila Bandyopadhyay, Arindam Biswas, and Bhargab B Bhattacharya	Journal of Digital Imaging, Springer. (Accepted)		2018	
Readability Analysis of Bengali Literary Texts	S. Phani, S. Lahiri, and A. Biswas	Journal of Quantitative Linguistics. Taylor and Francis.		2018	
Determination of 3D curve skeleton of a digital object.	Nilanjana Karmakar, Sharmistha Mondal, and Arindam Biswas	Information Sciences, (in press)		2018	

Finding a Largest Rectangle inside a Digital Object and Rectangularization	Sarkar, A., A. Biswas, M. Dutt, and A. Bhattacharya	Journal of Computer and System Sciences, JCSS (95), pp. 204-217.			2018	
Finding Shortest Triangular Path and its Family inside a Digital Object.	Sarkar, A., A. Biswas and, M. Dutt, and S. Mondal	Fundamenta Informaticae 159(3)			2018	297-325
Graph Theoretical Characterization of Retinal Vascular Network Finding Minimum Cost Spanning Tree	Nilanjana Dutta Roy and Arindam Biswas	Computational Intelligence, Communications, and Business Analytics CICBA			2018	
Biometric Template Generation Framework using Retinal Vascular Structure	Nilanjana Dutta Roy, Arindam Biswas and Suchismita Goswami	Computational Intelligence, Communications, and Business Analytics			2018	
Construction of Simple Isothetic Polygon from a Set of Points	Raina Paul, Apurba Sarkar, and Arindam Biswas	Fifth International Conference on Emerging Applications of Information Technology			2018	
"Detection of Hemorrhagic region in Brain MRI	Ujjwal Kamila, Oishila Bandyopadhyay, and Arindam Biswas	International Conference on Communication, Computing and Networking			2018	383-391
Non-parametric sequence-based learning approach for outlier detection in IoT.	Nashreen Nesa, Tania Ghosh, Indrajit Banerjee:	Future Generation Comp. Syst.	82		2018	412-421
iGRM: Improved Grey Relational Model and Its Ensembles for Occupancy Sensing in Internet of Things Applications.	Nashreen Nesa, Tania Ghosh, Indrajit Banerjee:	ACM Transactions on Knowledge Discovery from Data	12		2018	100-147
A constrained Delaunay Triangulation based RSUs deployment strategy to cover a convex region with obstacles for maximizing communications probability between V2I.	Chinmoy Ghorai, Indrajit Banerjee:	Vehicular Communications 13: 89-103 (2018)	13		2018	89-103
Application of mobile sink in wireless sensor networks	Nimisha Ghosh, Indrajit Banerjee	10th COMSNETS 2018: Bengaluru, India			2018	507-509
Enhanced Network Coverage Based on Mobile Sink Management in Wireless sensor network	Mrinmoy Sen, Indrajit Banerjee, Tuhina Samanta:	ICDCN 2018			2018	101-150
Outlier detection in sensed data using statistical learning models for IoT.	Nashreen Nesa, Tania Ghosh, Indrajit Banerjee:	WCNC 2018: Barcelona, Spain			2018	201-206
A Permanent Fault Tolerant Dynamic Task Allocation Approach for Network-on-Chip based Multicore Systems	Suraj Paul, Navonil Chatterjee, and Prasun Ghosal	Journal of Systems Architecture, ELSEVIER,			2018	
Latency, Throughput and Power Aware Adaptive NoC Routing on Orthogonal Convex Faulty Region	Munshi Mostafijur Rahaman, Prasun Ghosal, and Tuhin Subhra Das	Journal of Circuits, Systems and Computers, World Scientific,	28	4	2019	1950055(1-21)
Correlating Fatality Rate to Road Accidents in India: A Case Study using Big Data	Subha Koley, Saket Srivastava, Prasun Ghosal	IEEE International Symposium on Smart Electronic Systems			2018	

Three Tier Architecture for IoT Driven Health Monitoring System Using Raspberry Pi	Neel Kamal, Prasun Ghosal	IEEE International Symposium on Smart Electronic Systems			2018	
Power Requirement Analysis of an mRNA-Ribosome System	Pratima Chatterjee, Prasun Ghosal	14th IEEE/ACM International Symposium on Nanoscale Architectures 2018 (NANOARCH 2018)			2018	
A Dynamic Resource Allocation Strategy for NoC Based Multicore Systems with Permanent Faults	Suraj Paul, Navonil Chatterjee and Prasun Ghosal	2018 IEEE CS Annual Symposium on VLSI (ISVLSI), [blind review], Hong Kong SAR, China			2018	
A Study of Chaos in Cellular Automata	Supreeti Kamilya and Sukanta Das	International Journal of Bifurcation and Chaos	28	3	2018	1-14
Convergence of Asynchronous Cellular Automata: Does Size Matter?	Biswanath Sethi, Souvik Roy, Sukanta Das	Journal of Cellular Automata	13	4	2018	359-371
A List of Tri-state Cellular Automata which are Potential Pseudo-random Number Generators	Kamalika Bhattacharjee and Sukanta Das:	International Journal of Modern Physics C	29	9	2018	1850088
A survey of cellular automata : types, dynamics, non-uniformity and applications	Kamalika Bhattacharjee, Nazma Naskar, Souvik Roy and Sukanta Das	Natural Computing			2018	1-29
A cellular automaton that solves distributed spanning tree problem	Souvik Roy, Arunima Ray, Sukanta Das	Journal of Computational Science	26		2018	39-54
Number Conservation Property of Binary Cellular Automata Under α-Asynchronous Update	Raju Hazari and Sukanta Das	Journal of Cellular Automata	13	3	2018	247-265
Rule 136 and its equivalents are liberal, but become conservative in their conjugal life	Raju Hazari and Sukanta Das	International Journal of Modern Physics C	29	6	2018	1850040
ECA 184 can implement Any Logic Circuits	Raju Hazari, Soma Kundu, Mahima Bhardwaj, Sukanta Das	Journal of Cellular Automata	13	4	2018	359-371
Do There Exist Non-linear Maximal Length Cellular Automata? A Study	Sumit Adak, Sukanya Mukherjee, Sukanta Das	13th International Conference on Cellular Automata for Research and Industry, ACRI 2018	11115		2018	289-297
Enhanced Network Coverage Based on Mobile Sink Management in Wireless sensor	Mrinmoy Sen, Indrajit Banerjee, Tuhina Samanta:	ICDCN	2018		2018	
Mobile sink based data collection for energy efficient coordination in wireless sensor network using cooperative game model	Ipsita Koley, Tuhina Samanta	Springer Telecommunication Systems	https://doi.org/10.1007/s11235-018-0507-4, article in press		2018	1 - 20
A network based mechanism for managing decomposable tasks via crowdsourcing.	Sankar Kumar Mridha, Malay Bhattacharyya	Electronic Commerce Research	18(4)		2018	869-881

A Weighted Rank aggregation approach towards crowd opinion analysis	Sujoy Chatterjee, Anirban Mukhopadhyay, Malay Bhattacharyya	Knowledge Based Systems	149		2018	47-60
Studying the influence of requesters in posted-price crowdsourcing	Malay Bhattacharyya, Sankar Kumar Mridha	International Conference on Management of Data (COMAD)/ACM IKDD Conference on Data Science			2018	10-Jan
Network based mechanisms for competitive crowdsourcing.	Sankar Kumar Mridha, Malay Bhattacharyya	International Conference on Management of Data (COMAD)/ACM IKDD Conference on Data Science			2018	318-321
Pairing ILVs for Monolithic 3D Integrated Circuits	Vivek Kumar Gupta, Surajit Kumar Roy and Chandan Giri	IEEE International Symposium on Devices, Circuits and Systems (ISDCS)			2018	001-005
Identification of Faulty TSV with a Built-in Self-Test Mechanism	Dilip Kumar Maity, Surajit Kumar Roy, Hafizur Rahaman and Chandan Giri	IEEE Asian Test Symposium(ATS)			2018	
Identification of Faulty TSVs in 3D IC during Pre-bond Testing	Dilip Maity, Surajit Kumar Roy and Chandan Giri	IEEE VLSI Design Conference			2018	109-114
Optimized Concurrent Testing of Digital Microfluidic Biochips	Sourav Ghosh, Hafizur Rahaman and Chandan Giri	IEEE VLSI Design Conference			2018	453-454
Pairing ILVs for Monolithic 3D Integrated Circuits	Vivek Kumar Gupta, Surajit Kumar Roy and Chandan Giri	IEEE International Symposium on Devices, Circuits and Systems (ISDCS)			2018	001-005
Identification of Faulty TSV with a Built-in Self-Test Mechanism	Dilip Kumar Maity, Surajit Kumar Roy, Hafizur Rahaman and Chandan Giri	IEEE Asian Test Symposium(ATS)			2018	
Test Diagnosis of Digital Microfluidic Biochips using Image Segmentation	Sourav Ghosh, Hafizur Rahaman and Chandan Giri	IEEE Asian Test Symposium(ATS)			2018	
An Efficeinet Method for text Encryption using Elliptic Curve Cryptography	Prasenjit Das and Chandan Giri	IEEE 8th International Advance Computing Conference (IACC)			2018	
Non-cooperative game theory based congestion control in lossy WSN	Srijit Chowdhury and Chandan Giri	IEEE Global Communications Conference (GLOBECOM)			2018	
A Novel Approach for Nearest Neighbor Realization of 2D Quantum Circuits	A Bhattacharjee, C Bandyopadhyay, R Wille, R Drechsler, H Rahaman	IEEE Computer Society Annual Symposium on VLSI (ISVLSI)			2018	305-310
Synthesis of circuits based on all-optical Mach-Zehnder Interferometers using Binary Decision Diagrams	C Bandyopadhyay, R Das, R Wille, R Drechsler, H Rahaman	Microelectronics Journal	71		2018	19-29
Analysis of simultaneous switching noise and IR-drop in side-contact multilayer graphene nanoribbon power distribution network	S Bhattacharya, D Das, H Rahaman	Journal of Circuits, Systems and Computers	27	1	2018	1850001
FPGA implementation of semi-fragile reversible watermarking by histogram bin shifting in real time	S Hazra, S Ghosh, S De, H Rahaman	Journal of Real-Time Image Processing	14	1	2018	193-221

Spin Dependent Electronic Transport in Edge Oxidized Zigzag Graphene Nanoribbon	I Maity, K Ghosh, H Rahaman, P Bhattacharyya	Materials Today: Proceedings	5	3	2018	9892-9898
Analysis of a temperature-dependent delay optimization model for GNR interconnects using a wire sizing method	S Bhattacharya, S Das, A Mukhopadhyay, D Das, H Rahaman	Journal of Computational Electronics	7	4	2018	1536-1548
A template-based technique for efficient Clifford+ T-based quantum circuit implementation	L Biswal, R Das, C Bandyopadhyay, A Chattopadhyay, H Rahaman	Microelectronics Journal 81, 58-68	81		2018	58-68
Improved Designs for All-Optical Adder Circuit Using Mach–Zehnder Interferometers (MZI) Based Optical Components	C Bandyopadhyay, P Dutta, R Das, H Rahaman	Journal of The Institution of Engineers (India): Series B	99	5	2018	451-465
Improved circuit synthesis approach for exclusive-sum-of-product-based reversible circuits	C Bandyopadhyay, S Parekh, H Rahaman	IET Computers & Digital Techniques	12	4	2018	167-175
Optimized Concurrent Testing of Digital Microfluidic Biochips	Sourav Ghosh, Hafizur Rahaman, Chandan Giri	31th IEEE VLSI DESIGN			2018	453-454
MOSFET optimization toward power efficient circuit design	A Mukhopadhyay, S Bhattacharya, T Iizuka, TK Maiti, M Miura-Mattausch, A Gau, D Navarro, H Rahaman, A Sengupta, S Yoshitomi, HJ Mattausch	IEEE ISDCS 2018			2018	1-4
Electro-thermal RF modeling and performance analysis of graphene nanoribbon interconnects	Subhajit Das, Debaprasad Das, Hafizur Rahaman	Journal of Computational Electronics			2018	1-14
Computing Fréchet Distance Metric Based L-Shape Tile Decomposition for E-Beam Lithography	Arindam Sinharay, Pranab Roy, Hafizur Rahaman	31th IEEE VLSI DESIGN			2018	313-318
Homogeneous droplet routing in DMFB: An enhanced technique for high performance bioassay implementation	R Bhattacharya, P Roy, H Rahaman	Integration, the VLSI Journal	60		2018	74-91
FPGA implementation of semi-fragile reversible watermarking by histogram bin shifting in real time	S Hazra, S Ghosh, S De, H Rahaman	Journal of Real-Time Image Processing	14	1	2018	193-221
Influence of rGO Cladding in Improving the Sensitivity and Selectivity of ZnO Nanoflowers based Alcohol Sensor	D. Acharyya, A. Saini, **P. Bhattacharyya**	IEEE Sensors Journal	18	5	2018	1820-1827
A Comparative Study on Performance Improvement of ZnO Nanotubes based Alcohol Sensor Devices by Pd and rGO Hybridization	Indranil Maity, Debanjan Acharyya, Kuoyou Huang, Peifang Chung, Monshu Ho, **Partha Bhattacharyya**	IEEE Transactions on Electron Devices	65	8	2018	3528-3534
Potentiality of Density-Functional Theory in Analyzing the Devices Containing Graphene - Crystalline Solid Interfaces: A Review	K. Ghosh, H. Rahaman, **P. Bhattacharyya**	IEEE Transactions on Electron Devices	64	11	2017	4738-4745

Highly Sensitive ppb Level Methanol Sensor by Tuning C:O Ratio of rGO-TiO2 Nanotube Hybrid Structure	Debanjan Acharyya, Snehanjan Acharyya, Kuoyou Huang, Peifang Chung, Monshu Ho, **Partha Bhattacharyya**	IEEE Transactions on Nanotechnology	16	6	2017	1122-1128
Efficient Gas Sensor Devices based on Surface Engineered Oxygen Vacancy Controlled TiO_2 Nanosheets	Basanta Bhowmik, **Partha Bhattacharyya**	IEEE Transactions on Electron Devices	64	5	2017	2357-2363
Selectivity Tuning of Graphene Oxide Based Reliable Gas Sensor Devices by Tailoring the Oxygen Functional Groups	I. Maity, K.Ghosh, H.Rahaman, **P.Bhattacharyya**	IEEE Transactions on Device and Materials Reliability	Accepted (In Press)		2017	
Resonant Frequency Tuning Technique for Selective Detection of Alcohols by TiO_2 Nanorod Based Capacitive Device	K. Dutta, B.Bhowmik, **P. Bhattacharyya**	IEEE Transactions on Nanotechnology	16	5	2017	820-825
A Proton Hopping Guided 3-D Space Charge Model for Quantitative Understanding of Humidity Dependent Gas Sensing by TiO_2 Nanoflower based Devices	B. Bhowmik, **P. Bhattacharyya**	IEEE Transactions on Nanotechnology	16	2	2017	180-188
Tuning of Electronic Properties of Edge Oxidized Armchair Graphene Nanoribbon by the Variation of Oxygen Amounts and Positions	I. Maity, K.Ghosh, H. Rahaman, **P. Bhattacharyya**	Journal of Materials Science: Materials in Electronics	28	12	2017	9039-9047
A potential gas sensor device based on Pd/RGO/TiO2 nanotube ternary hybrid junction	S. Ghosal, **P. Bhattacharyya**	Microelectronics Reliability	78		2017	299-306
Voltage Controlled Rupturing of TiO_2 Nanotubes for Gas Sensor Device Applications: Correlation with Surface and Edge Energy	K. Dutta, P. P. Chattopadhyay, **P. Bhattacharyya**	IEEE Transactions on Electron Devices	63	12	2016	4933-4938
Highly Efficient Room Temperature Gas Sensor based on TiO2 Nanotubes-Reduced Graphene Oxide Hybrid Device	Debanjan Acharyya , **Partha Bhattacharyya**	IEEE Electron Device Letters	37	5	2016	656-659
Performance Improvement of Pd/ZnO-NR/Si MIS Gas Sensor Device in Capacitive Mode: Correlation with Equivalent Circuit Elements	K. Dutta, N. Banerjee, H. Mishra, **P. Bhattacharyya**	IEEE Transactions on Electron Devices	63	3	2016	1266-1279
Ti/TiO_2 Nanotube Array/Ti Capacitive Device for Non-polar Aromatic Hydrocarbon Detection	K. Dutta, A. Hazra, **P. Bhattacharyya**	IEEE Transactions on Device and Materials Reliability	16	2	2016	235-242
Alcohol Sensing Performance of ZnO Hexagonal Nanotubes at Low Temperatures: A Qualitative Understanding	D. Acharyya, **P. Bhattacharyya**	Sensors and Actuators B (Elsevier)	228		2016	373-386

Title	Authors	Journal	Vol	Issue	Year	Pages
Hybrid 3D Structures of ZnO Nanoflowers and PdO Nanoparticles as a Highly Selective Methanol Sensor	D. Acharyya, K.Y. Huang, P.P. Chattopadhyay, M. S. Ho, H- J. Fecht, **P. Bhattacharyya**	Analyst (Royal Society of Chemistry)	141	10	2016	2977-2989
Highly Selective Low Temperature Acetone Sensor based on Hierarchical 3-D TiO_2 Nanoflowers	B. Bhowmik, V. Manjuladevi, R.K.Gupta, **P. Bhattacharyya**	IEEE Sensors Journal	16	10	2016	3488-3495
Reduction of leaky wave coupling in a superstrate loaded antenna using metamaterial	Ghosh, J., Mitra, D., Bhadra Chaudhuri, S.R.	Journal of Electromagnetic Waves and Applications	32	17	2018	2292-2303
A compact wideband flexible implantable slot antenna design with enhanced gain	Das, S., Mitra, D.	IEEE Transactions on Antennas and Propagation	66	8	2018	4309-4314
Wideband THz antenna using graphene based tunable circular reactive impedance substrate	Samanta, G., Mitra, D.	Optik	158		2018	1080-1087
Design of miniaturized, low-loss and flexible multi-band metamaterial for microwave application	Shaw, T., Mitra, D.	Applied Physics A: Materials Science and Processing	124	4	2018	348
A Compact Design of Multiband Terahertz Metamaterial Absorber with Frequency and Polarization Tunability	Bakshi, S.C., Mitra, D., Minz, L.	Plasmonics			2018	1-10
A Frequency Selective Surface Based Reconfigurable Rasorber With Switchable Transmission/Reflection Band	Bakshi, S.C., Mitra, D., Ghosh, S.	IEEE Antennas and Wireless Propagation Letters				
Mutual coupling reduction in planar antenna by graphene metasurface for THz application	Ghosh, J., Mitra, D.	Journal of Electromagnetic Waves and Applications	31	18	2017	2036-2045
Miniaturization of a patch antenna using circular reactive impedance substrate	Samanta, G., Mitra, D., Bhadra Chaudhuri, S.R.	International Journal of RF and Microwave Computer-Aided Engineering	27	8	2017	
A compact metamaterial with multi-band negative-index characteristics	Sarkhel, A., Mitra, D., Bhadra Chaudhuri, S.R.	Applied Physics A: Materials Science and Processing	122	4	2016	471
A miniaturized ring slot antenna design with enhanced radiation characteristics	Mitra, D., Ghosh, B., Sarkhel, A., Bhadra Chaudhuri, S.R.	IEEE Transactions on Antennas and Propagation	64	1	2016	300-305
Design of Compact and High Directive Slot Antennas Using Grounded Metamaterial Slab	Mitra, D., Sarkhel, A., Kundu, O., Chaudhuri, S.R.B.	IEEE Antennas and Wireless Propagation Letters	14		2015	811-814
A compact meta-atom for dual band negative permittivity metamaterial	Sarkhel, A., Mitra, D., Paul, S., Chaudhuri, S.R.B.	Microwave and Optical Technology Letters	57	5	2015	1152-1156
Liquid Gated ZnO Nanorod FET Sensor for Ultrasensitive Detection of Hepatitis B Surface Antigen with Vertical Electrode Configuration	B.Chakraborty, S.Ghosh, N.Das and C.RoyChaudhuri	Biosensors and Bioelectronics	122	Dec.30	2018	58-67

Title	Authors	Journal	Vol./DOI	Issue	Year	Pages
Intelligent Quantification of Picomolar Protein Concentration in Serum by Functionalized Nanopores	N.Das, R.Ray, S.Ray and C.RoyChaudhuri	IEEE Sensors Journal	DOI: 10.1109/ JSEN.20 18.2872 853		2018	
Noise Spectroscopy Analysis for Estimation of Specific Biomolecule in Complex Mixture Using Solid State Nanopore	N.Das, N.Samanta, A.M.Joseph, H.Ghosh and C.RoyChaudhuri	IEEE Transactions on Nanotechnology	17	6	2018	1138 - 1145
Label-Free Biomolecule Detection in PhysiologicalSolutions With Enhanced Sensitivity Using Graphene Nanogrids FET Biosensor	R. Ray, J. Basu, W. A. Gazi, N. Samanta, K. Bhattacharyya, and C. RoyChaudhuri	IEEE Transactions on NanoBioscience	DOI: 10.1109/ TNB.20 18.2863 734	06-Aug	2018	
Graphene Nanoporous FET Biosensor: Influence of Pore Dimension on Sensing Performance in Complex Analyte	J.Basu, C.RoyChaudhuri	IEEE Sensors Journal	18	14	2018	5627 - 5634
Low Noise Field Effect Biosensor with Electrochemically Reduced Graphene Oxide	J.Basu, A.Baral, N.Samanta, N.Mukherjee,C. Roychaudhuri	Journal of Electrochemical Society	165	8	2018	3201-3207
High Performance Biosensor Based on Electronic Transduction of Refractive Index Using 3D Nanostructured Biogenic Silica	A.Mal, R.Bose,C.RoyChaudhuri	Materials Today: Proceedings	5	3	2018	9783-9789
Biomolecule Detection in High Ionic Strength With Enhanced Sensitivity Using Graphene Nanogrid FET Immunosensor	J.Basu, C.RoyChaudhuri	Materials Today: Proceedings	5	3	2018	9881-9887
Liaison between Heme Metabolism and Bioenergetics Pathways-A Multimodal Elucidat27-ion for Early Diagnosis of Oral Cancer	R. Sarkar, K.Chaterjee, D.Ojha, B.Chakraborty, S.Sengupta, D.Chattopadhyay, C.RoyChaudhuri, A.Barui	Photodiagnosis and photodynamic therapy (Elsevier)	21		2018	263-274
Optimized Nanocrystalline Silicon Oxide Impedance Immunosensor Electronic Tongue for Sub-femtomolar Estimation of Multiple Food Toxins	H.Ghosh, R.Das, C.RoyChaudhuri	IEEE Transactions on Instrumentation and Measurement	66	5	2017	964-973
Quantitative differentiation of multiple virus in blood using nanoporous silicon oxide immunosensor and artificial neural network	W Chakraborty, R Ray, N Samanta, C RoyChaudhuri	Biosensors and Bioelectronics	98		2017	180-188
Risk prediction for oral potentially malignant disorders using fuzzy analysis of cytomorphological and autofluorescence alterations in habitual smokers	R Sarkar, S Dey, M Pal, RR Paul, J Chatterjee, C RoyChaudhuri, A Barui	Future Oncology	13	6	2017	499-511
Attomolar Sensitivity of FET Biosensor Based on Smooth and Reliable Graphene Nanogrids	J.Basu, C.RoyChaudhuri	IEEE Trans. on Electron Device Letters	37	4	2016	492-495

Title	Authors	Journal	Vol	Issue	Year	Pages
Design Issues for Performance Enhancement in Nanostructured Silicon Oxide Biosensors: Modeling the Frequency Response	H.Ghosh, D.Kundu, C.RoyChaudhuri	IEEE Transactions on Electron Devices	63	8	2016	3241
Real Time Monitoring of Wound Healing on Nano-patterned Substrates: Non-invasive Impedance Spectroscopy Technique	D.Mondal, R.Bose, C.RoyChaudhuri	IEEE Transactions on Nanotechnology	15	5	2016	791-800
Pore Geometry Optimization of Nanocrystalline Silicon Oxide Impedance Biosensor	H. Ghosh, C. RoyChaudhuri	IEEE Sensors Journal	16	22	2016	7843-7852
Graphene Nanogrids FET Immunosensor: Signal To Noise Ratio Enhancement	J.Basu and C.Roychaudhuri	Sensors	16	10	2016	1481(1-10)
Nanocrystalline Silicon Oxide Impedance Immunosensors for Sub-femtomolar Mycotoxin Estimation in Corn Samples by Incremental Fuzzy Approach	N.Samanta, C.RoyChaudhuri	IEEE Sensors	16	4	2016	1079-1078
Design and development of an amperometric immunosensor based on screen-printed electrodes	K.K.Mistry, K.Layek, T.N.Chell, C.RoyCahudhuri	Analytical Methods (Royal Society of Chemistry)	8	15	2016	3096-3101
Enhanced sensing properties of ZnO-SnO2 based composite type gas sensor	B.Mondal , J.Das, C.RoyChaudhuri, N.Mukherjee, H.Saha	Eur. Phys. J. Appl. Phys.(EDP Sciences	73	1	2016	10301
Towards reliability enhancement of graphene FET biosensor in complex analyte: Artificial neural network approach	J.Basu, N.Samanta, S.Jana, C.RoyChaudhuri	Microelectronics Reliability	91		2018	154-159
The latent fingerprint in mass transport of polycrystalline materials	Gopinath Thirunavukarasu, Sukumar Kundu, Subrata Chatterjee;	Heat Mass Transfer	52		2016	217–225
Microstructure and mechanical properties of similar and dissimilar joints of aluminium alloy and pure copper by friction stir welding	Sinha, VC; Kundu, S; Chatterjee, S;	Perspectives in Science	8	1	2016	115-127
Development of ternary iron vanadium oxide semiconductors for applications in photoelectrochemical water oxidation	H. Mandal, S. Shyamal, P. Hajra, A. Bera, D. Sariket, S. Kundu, C. Bhattacharya;	RSC Advances	6		2016	4992–4999
Influence of Welding Pressure on Diffusion Welded Joints Using Interlayer	Thirunavukarasu, G; Murugan, B; Chatterjee, S; Kundu, S;	Welding Journal	96		2017	53S-62S
Benign role of Bi on an electrodeposited Cu 2 O semiconductor towards photo-assisted H 2 generation from water	S. Shyamal, P. Hajra, H. Mandal, A. Bera, D. Sariket, A. K. Satpati, S. Kundu, C. Bhattacharya;	Journal of Materials Chemistry A	4		2016	9244-9252
Temperature controlled fabrication of chemically synthesized cubic In2O3 crystallites for improved photoelectrochemical water oxidation	Sariket, Debasis; Shyamal, Sanjib; Hajra, Paramita; Mandal, Harahari; Bera, Aparajita; Maity, Arjun; Kundu, Sukumar; Bhattacharya, Chinmoy;	Materials Chemistry and Physics	201		2017	Page 7-17

Title	Authors	Journal	Vol	Issue	Year	Pages
Scope for improved properties of dissimilar joints of ferrous and non-ferrous metals	Thirunavukarasu, Gopinath; Chatterjee, Subrata; Kundu, Sukumar;	Transactions of Nonferrous Metals Society of China	27		2017	1517-1529
AN ANALYSIS OF MICROSTRUCTURE AND MECHANICAL PROPERTIES ON FRICTION STIR WELDED JOINT OF DISSIMILAR 304 STAINLESS STEEL AND COMMERCIALLY PURE ALUMINIUM	BALAMAGENDIRAVARMAN, M; KUNDU, S; CHATTERJEE, S;	Archives of Metallurgy and Materials	62		2017	1813-1817
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED JOINTS BETWEEN COMMERCIALLY PURE COPPER AND Al 6351 ALLOY	SINHA, VC; KUNDU, S; CHATTERJEE, S;	Archives of Metallurgy and Materials	62		2017	1819-1825
Metallurgists' Insights on Diffusion-Assisted Dissimilar-Joints of Light-and Heavy-Alloys	Thirunavukarasu, Gopinath; Kundu, Sukumar; Chatterjee, Subrata;	Defect and Diffusion Forum	380		2017	page 12-28
Interfacial reaction and microstructure study of DSS/Cu/Ti64 diffusion-welded couple	Kundu, Sukumar; Chakraborty, Asmita; Mishra, Brajendra;	Welding in the World	62		2018	155-167
Solvent Effects on the Photoelectrochemical Water Oxidation Behaviour of TiO 2 Semiconductors	Bera, Aparajita; Hajra, Paramita; Shyamal, Sanjib; Mandal, Harahari; Sariket, Debasis; Kundu, Sukumar; Mandal, Sampa; Bhattacharya, Chinmoy;	Materials Today: Proceedings	5		2018	10161-10168
Interfacial Microstructure and Mechanical Properties of Friction Stir Welded Joints of Commercially Pure Aluminum and 304 Stainless Steel	Murugan, Balamagendiravarman; Thirunavukarasu, Gopinath; Kundu, Sukumar; Kailas, Satish V; Chatterjee, S;	Journal of Materials Engineering and Performance			2018	2921–2931
Structure and properties correlation of diffusion bonded joint of duplex stainless steel and Ti‑6Al‑4V with and without Ni‑17Cr‑9Fe alloy interlayer	Kundu, Sukumar; Thirunavukarasu, Gopinath;	Welding in the World	60		2016	793-811
Study on microstructure, mechanical, and electrochemical behaviour of friction stir welded joints between aluminium and 304 stainless steel	Murugan, Balamagendiravarman; Kundu, Sukumar;	Materials Research Express	6		2018	1 to 10
Effect of microstructure and residual stresses on nano-tribological and tensile properties of Al2O3-and SiC-reinforced 6061-Al metal matrix composites	Chatterjee, Subhranshu; Sur, Sudipta Ghosh; Bandyopadhyay, S; Basumallick, Amitava;	Journal of Composite Materials	50	19	2015	2687-2698
Microstructure-property correlations of multifunctional Si-Fe nanocomposite	Basu, Kausik; Chatterjee, Subhranshu; Roychowdhury, Anirban; Das, Dipankar; Basumallick, Amitava;	Nano Hybrids	9		2016	15-23

Title	Authors	Journal	Vol	Issue	Year	Pages
A simple stir casting technique for the preparation of in situ Fe-aluminides reinforced Al-matrix composites	Pradhan, Susanta K; Chatterjee, Subhranshu; Mallick, Amitava Basu; Das, Debdulal;	Perspectives in Science	8		2016	529-532
Microstructural, thermo-optical, mechanical and tribological behaviours of vacuum heat treated ultra thin SS304 foils	Palai, Debajyoti; Bhattacharya, Manjima; Mallick, Amitava Basu; Bera, Parthasarathi; Sharma, Anand Kumar; Mukhopadhyay, Anoop Kumar; Dey, Arjun;	Materials Research Express	3	9	2016	96501
Microstructure and magnetic behavior of Cuâ€'Coâ€'Si ternary alloy synthesized by mechanical alloying and isothermal annealing	Chabri, Sumit; Bera, S; Mondal, BN; Basumallick, A; Chattopadhyay, PP;	Journal of Magnetism and Magnetic Materials	426		2017	454-458
Magnetic behaviour of FeCo/Cu core shell nanoparticles	A.Sarkar, S. Hembram, S. Chatterjee, P. Deb, A. Basumallick;	Key Engineering Materials	719		2017	03-Aug
Effect of Anodizing Medium on The Morphology and Photoluminescent Property of Porous Alumina Film	Chatterjee, Subhranshu; Sarkar, Jaya; Mallick, Amitava Basu; Roy, Debdas; Deb, Pritam;	GSTF Journal of Engineering Technology (JET)	4	2	2017	63-67
Preparation of FeCo/Cu Core Shell Magnetic Nanoparticles	Hembram, Shilabati; Sarkar, Angshuman; Mallic, Amitava Basu; Deb, Pritam;	GSTF Journal of Engineering Technology (JET)	4	2	2017	63-67
Enhancement in magnetocaloric properties of NiMnGa alloy through stoichiometric tuned phase transformation and magneto-thermal transitions	Dey, Sushmita; Roy, Rajat K; Ghosh, M; Mallick, A Basu; Mitra, A; Panda, AK;	Journal of Magnetism and Magnetic Materials	439		2017	305-311
Comprehensive studies on microstructural, electronic, thermo-optical, mechanical and tribological behavious of vacuum heat treated ultra thin CP Ti foils	Palai, Debajyoti; Dey, Arjun; Bera, Parthasarathi; Bhattacharya, Manjima; Mallick, Amitava Basu; Mukhopadhyay, Anoop Kumar; Sharma, Anand Kumar;	Materials Research Express	4	7	2017	76404
Effect of annealing treatments on the magnetic properties of FeCo/Cu core shell nanostructures	Sarkar, Angshuman; Hembram, Shilabati; Chatterjee, Subhranshu; Mallick, Amitava Basu;	Materials Today: Proceedings	5	1	2018	745-751
Delineating the role of surface characteristics on the solar selectivity of colored chromium oxide coating on 304 stainless steel substrate	Sarkar, Angshuman; Sinha, Surajit; Palai, Debajyoti; Dey, Arjun; Mallick, Amitava Basu;	Solar Energy Materials and Solar Cells	182		2018	354-361
Understanding the evolution of microstructural features in the in-situ intermetallic phase reinforced Al/Al 3 Ti nanocomposite	Chatterjee, Subhranshu; Ghosh, Abhishek; Mallick, Amitava Basu;	Materials Today: Proceedings	5	3	2018	10118-10130
Influence of rapid solidification on mangnetostructural and magnetocaloric effect in Ni53Mn24Ga23 alloy	Dey, Sushmita; Roy, RK; Mallick, A Basu; Mitra, A; Panda, AK;	Materials Today Communications	17		2018	140-143
On the role of precipitates in controlling microstructure and mechanical properties of Ag and Sn added 7075 alloys during artificial ageing	Abhishek Ghosh, **Manojit Ghosh** and Gyan Shankar	Materials Science and Engineering A	738		2018	399-411

Title	Authors	Journal	Volume	Issue	Year	Pages
Titanium and its alloys for bio-implant applications	D. Dutta Majumdar, A. Roy Chowdhury, **M. Ghosh**	IIM Metal News (ISSN: 0972-0480)	21	2	2018	6-9
Microstructure and texture development of 7075 alloy during homogenisation	A Ghosh, **M Ghosh**	Philosophical Magazine	98	16	2018	1470-1490
Polysaccharides from Dolichos biflorus Linn and Trachyspermum ammi Linn seeds: isolation, characterization and remarkable antimicrobial activity	S Basu, **M Ghosh**, RK Bhunia, J Ganguly, BK Banik	Chemistry Central Journal	11	1	2018	118-125
Influence of pre-treatment on surface behavior of duplex plasma treated AISI H13 tool steel	K Das, J Alphonsa, **Manojit Ghosh**, J Ghanshyam, R Rane	Surface and Interfaces	8		2017	206-213
Effect of ZnO Coating on two different sized α-Fe nanoparticles: synthesis and detailed investigation of their structural, optical, hyperfine and magnetic characteristics	A K Rathore, S P Pati, **Manojit Ghosh**, A Roychowdhury, D Das	Journal of Materials Science: Materials in Electronics	1	9	2017	6950–6958
Microstructure and wear behavior of pulsed plasma nitrided AISI H13 tool steel	Kalyan Das, Alphonsa Joseph, **M. Ghosh**, S. Mukherjee	Canadian Metallurgical Quarterly	55	4	2016	402-408
HVOF sprayed WC-CoCr coating on mild steel: Microstructure and wear Evaluation	D. Naha, S. Chatterjee, **M. Ghosh**, J. Dutta Majumdar and A. Majumdar	Journal of Applied Physics	8	1	2016	585–591
Corrosion behavior and bioactivity of titanium foam developed by powder metallurgy route	D. Dutta Majumdar, D. P. Mondal, **M. Ghosh**, A. Roy Chowdhury , H. Rao and J. Dutta Majumdar	E-MRS SPRING MEET 2017			2017	
Influence of HVOF Process Parameters of WC-Co-Cr Coating on Mild Steel Substrate	Swadipta Roy, Dibyendu Naha, **Manojit Ghosh**	17th Asian Pacific Corrosion Control Conference (APCCC 17)			2016	
Thermo-mechanically controlled processed ultrahigh strength steel: Microstructure, texture and mechanical properties	Mandal, S; Tewary, NK; Ghosh, SK; Chakrabarti, D; Chatterjee, S;	Materials Science and Engineering: A	663		126-140	2016
Phase transformation and mechanical behaviour of thermo-mechanically controlled processed high-strength multiphase steel	Mandal, G; Ghosh, SK; Mukherjee, S;	Journal of materials science	51	14	6569-6582	2016
Microstructure, mechanical properties and corrosion performance of a few TMT rebars	Nandi, SK; Tewary, NK; Saha, JK; Ghosh, SK;	Corrosion Engineering, Science and Technology	51	7	476-488	2016
Effect of Al Content in Low Carbon High Manganese TWIP Steel.	Tewary, Nisith Kumar; Ghosh, Swarup Kumar; Chatterjee, Subrata;	Key Engineering Materials	706		16-22	2016
Structure-property relationships in thermo-mechanically processed Titanium-Molybdenum steels	Mitra, S; Ghosh, SK; Mukherjee, S;	Materials Today: Proceedings	5	1	848-854	2018
Effect of partial and full austenitisation on microstructure and mechanical properties of quenching and partitioning steel	Mandal, G; Ghosh, SK; Bera, S; Mukherjee, S;	Materials Science and Engineering: A	676		56-64	2016

Title	Authors	Journal	Volume	Issue	Pages	Year
Microstructural characterisation and corrosion performance of old railway girder bridge steel and modern weathering structural steel	Tewary, N K⌗; Kundu, A; Nandi, R; Saha, JK; Ghosh, SK;	Corrosion Science	113		57-63	2016
Structure-property relationship in a 2 GPa grade micro-alloyed ultrahigh strength steel	Mandal, G; Roy, C; Ghosh, SK; Chatterjee, S;	Journal of Alloys and Compounds	705		817-827	2017
Incorporation of prior knowledge in neural network model for continuous cooling of steel using genetic algorithm	Chakraborty, Subhamita; Chattopadhyay, Partha P; Ghosh, Swarup K; Datta, Shubhabrata;	Applied Soft Computing	58		297-306	2017
Enhancement of Mechanical Properties in Bainitic Steel Processed from Different Austenitization Temperatures	Mandal, Gurudas; Tewary, Nisith Kumar; Ghosh, Swarup Kumar;	steel research international	89	2	#####	2018
Microstructure-tensile property correlation in 304 stainless steel after cold deformation and austenite reversion	Mallick, P; Tewary, NK; Ghosh, SK; Chattopadhyay, PP;	Materials Science and Engineering: A	707		488-500	2017
Effect of cryogenic deformation on microstructure and mechanical properties of 304 austenitic stainless steel	Mallick, P; Tewary, NK; Ghosh, SK; Chattopadhyay, PP;	Materials Characterization	133		77-86	2017
Deformation behaviour of low carbon high Mn twinning-induced plasticity steel	Tewary, N K; Ghosh, S K; Chatterjee, S;	Part C: Journal of Mechanical Engineering Science		Special Issue Article	#####	2017
Microstructural evolution and mechanical behaviour of high strength steel treated by quenching and partitioning process	Mandal, G; Ghosh, SK;	Materials Today: Proceedings	4	9	9418-9422	2017
A Novel Low-Carbon High-Strength Steel: Processing, Microstructure and Mechanical Properties	Mitra, S; Ghosh, SK; Mukherjee, S;	Advanced High Strength Steel			125-133	2018
Effect of Nb micro-alloying on microstructure and properties of thermo-mechanically processed high carbon pearlitic steel	Dey, I; Chandra, S; Saha, R; Ghosh, SK;	Materials Characterization	140		45-54	2018
Effects of Thermo-mechanical Process Parameters on Microstructure and Crystallographic Texture of High Ni–Mo Ultrahigh Strength Steel	Mandal, G; Ghosh, SK; Chakrabarti, D; Chatterjee, S;	Metallography, Microstructure, and Analysis	7	2	222-238	2018
Effect of TMCP on Microstructure and Mechanical Properties of 304 Stainless Steel	Mallick, Pratik; Tewary, Nisith Kumar; Ghosh, Swarup Kumar; Chattopadhyay, Partha Protim;	steel research international	89	8	#####	2018
Deformation and annealing behaviour of dual phase TWIP steel from the perspective of residual stress, faults, microstructures and mechanical properties	Tewary, NK; Ghosh, SK; Chatterjee, S; Ghosh, A;	Materials Science and Engineering: A	733		43-58	2018
Fairness in message delivery in delay tolerant networks	A. Roy, Tamaghna Acharya, S. Das Bit	Wireless networks			2018	1-14

Title	Authors	Journal	Vol	Issue	Year	Pages
Non-orthogonal Multiple Access Inspired Multicasting in Cognitive Radio Networks	S. Bhattacharjee, Tamaghna Acharya, U. Bhattacharya	IET Communications, Special issue on "Recent Advances on 5G Communications".	12	15	2018	1845-1853
Outage Analysis for SWIPT-Enabled Two-Way Cognitive Cooperative Communications	A. Mukherjee, Tamaghna Acharya, Muhammad R. A. Khandaker	IEEE Transactions on Vehicular Technology	67	9	2018	9032-9036
On Green Multicasting over Cognitive Radio Fading Channels	S. Bhattacharjee, Tamaghna Acharya, U. Bhattacharya	IEEE Transactions on Vehicular Technology	67	6	2018	5491-5495
Faulty Node Detection in HMM-based Cooperative Spectrum Sensing For Cognitive Radio Networks	S. Das, Tamaghna Acharya	The Computer Journal, OUP	61	10	2018	1468-1478
Quality of service in delay tolerant networks: A survey	A. Roy, Tamaghna Acharya, S. Das Bit	Elsevier Journal on Computer Networks	130		2018	121-133
Cross Layer Optimization for Outage Minimizing Routing in Cognitive Radio Ad Hoc Networks with Primary Users' Outage Protection	S. Basak, Tamaghna Acharya	Elsevier Journal of Network and Computer Applications	98		2017	114-124
Outage analysis in two-way communication with RF energy harvesting relay and co-channel interference	Sutanu Ghosh, Tamaghna Acharya, Santi P. Maity	Transactions on Emerging Telecommunications Technologies, Wiley	28	12	2017	1-12
Social-based energy-aware multicasting in delay tolerant networks	A. Roy, S. Bose, Tamaghna Acharya, S. D. Bit	Elsevier Journal of Network and Computer Applications	87		2017	169-184
Energy Efficiency in Cooperative Cognitive Radio Network in Presence of Malicious Users	S.Chatterjee, S.P. Maity, Tamaghna Acharya	IEEE Systems Journal	12	3	2016	2197-2206
Route selection for interference minimization to primary users in cognitive radio ad hoc networks: A cross layer approach	S. Basak, Tamaghna Acharya	Elsevier Journal on Physical Communication	19		2016	118-132
On optimal fuzzy c-means clustering for energy efficient cooperative spectrum sensing in cognitive radio networks	S.P. Maity, S. Chatterjee, Tamaghna Acharya	Elsevier Journal on Digital Signal Processing	49		2016	104-115
Gain enhancement of triple-band patch antenna by using triple-band artificial magnetic conducto	Anumoy Ghosh, Vimlesh Kumar, Gobinda Sen, Santanu Das	IET Microwaves, Antennas and Propagation			2018	1-7
Design of an UWB Bandpass Filter Using Dual MMR with Highly Attenuated Upper Stopband Using DGS	Aditi Sengupta, Somdotta Roy Choudhury, Santanu Das	International Journal of Wireless and Microwave Technologies	8	3	2018	58–69
Frequency Tunable Low-Cost Microwave Absorber for EMI/EMC Application	Gobinda Sen, and Santanu Das	Progress in Electromagnetic Research Letters	74		2018	47–52
Design of Miniaturized Wilkinson Power Divider with Higher Order Harmonic Suppression for GSM Application	M. Kumar, S. N. Islam, S. K. Parui, and S. Das	Progress in Electromagnetic Research C	85		2018	25-34

Title	Authors	Journal	Vol	Issue	Year	Pages
Design and analysis of annular ring-based RIS and its use in dual-band patch antenna miniaturization for wireless applications	Anumoy Ghosh, Tapan Mandal and Santanu Das	Journal of Electromagnetic Waves and Applications	31	3	20117	335-349
Meander line-based low profile RIS with defected ground and its use in patch antenna miniaturization for wireless applications	Anumoy Ghosh, Arijit Mitra and Santanu Das	Microwave and Optical technology Letters	59	3	2017	732–738
Broadband Perfect Metamaterial Absorber on Thin Substrate for X-Band and Ku-Band Applications	Gobinda Sen, Sk. Nurul Islam, Amartya Banerjee, and Santanu Das	ProgressIn Electromagnetics Research C	73		2017	9-16
An Ultra-Wideband Monopole Antenna With A Gain Enhanced Performance Using A Novel Split-Ring Meta-Surface Reflector	Gobinda Sen, Amartya Banerjee, Mukesh Kumar and Santanu Das	Microwave and Optical technology Letters	59	6		1296–1300
Broadband metamaterial absorber on a singlesingle-layerultrathin substrate	Gobinda Sen, Mukesh Kumar, Sk Nurul Islam and Santanu Das	Waves in Random and Complex Media				1-9
(Fe/Sr) Codoped Biphasic Calcium Phosphate with Tailored Osteoblast Cell Functionality	Subhadip Basu, Aritri Ghosh, Ananya Barui, and Bikramjit Basu	ACS Biomater. Sci. Eng	Doi.10.1021/acsbiomaterials.7b00813	3	2018	857-871
A Glial Signature and Wnt7 Signalling Regulate Glioma-Vascular Interactions and Tumor Microenvironment	Griveau A, Seano G, Shelton S J, Kupp R, Jahangiri A, Obernier K, Krishnan S, Lindberg O R, Yuen T J, Tien A C, Sabo J K, Wang N, Chen I, Kloepper J, Larrouquere L, Ghosh M, Tirosh I, Huillard E, Alvarez-Buylla A, Oldham M C, Persson A I, Weiss W A, Batchelor T T, Stemmer-Rachamimov A, Suva M L, Phillips J J, Aghi M, Mehta S, Jain R K and Rowitch D H	Cancer Cell	33	5	2018	874-889e7
A Michael addition–cyclization-based switch-on fluorescent chemodosimeter for cysteine and its application in live cell imaging	Srimanta Manna, Parthasarathi Karmakar, Syed Samim Ali, Uday Narayan Guria, Ripon Sarkar, Pallab Datta, Debasish Mandal, Ajit Kumar Mahapatra	New Journal of Chemistry	42	7	2018	4951-4958
A Schiff base platform: structures, sensing of Zn(II), PPi in aqueous medium and anticancer activity	Barnali Naskar, Ritwik Modak, Dilip K. Maiti, Michael G. B. Drew, Chitrangada Das Mukhopadhyay, Sanchita Goswami	Dalton Transactions	46		2017	9498
A versatile chemosensor for the detection of Al3+ and picric acid (PA) in aqueous solution	Barnali Naskar, Antonio Bauzá, Antonio Frontera, Dilip K. Maiti, Chitrangada Das Mukhopadhyay and Sanchita Goswami	Dalton Transactions, DOI: 10.1039/C8DT02289E			2018	
Accelerated Healing of Full Thickness Dermal Wounds by Macroporous Waterborne Polyurethane-Chitosan Hydrogel Scaffolds	Bankoti K, RameshPrabhu A, Datta P, Dhara S	Materials Science & Engineering C	81		2017	133-43

Alginate-honey bioinks with improved cell responses for applications as bioprinted tissue engineered constructs	Sudipto Datta, Ripon Sarkar, and Veena Vyas, Sumant Bhutoria, Ananya Barui, Amit Roy Chowdhury, Pallab Datta	J. Mater. Res	DOI: 10.1557/ jmr.2018 .202		2018	
An eco-friendly, low power charge storage device from bio-tolerable nano cerium oxide electrodes for bioelectrical and biomedical applications	Amarish Dubey, Himanshi Jangir Mohit Pandey, Mayank Manjul Dubey, Shourya Verma, Manas Roy, S K Singh, Deepu Philip, Sabyasachi Sarkar and Mainak Das	Biomedical Physics & Engineering Express	2	4	2018	282
Autofluorescence signatures for classifying lung cells during epithelial mesenchymal transition	Atasi Sarkar, Ananya Barui, Biswajoy Ghosh, Anirban Mukherjee, Ripon Sarkar, Sanghamitra Sengupta, Jyotirmoy Chatterjee	RSC Advance	81	6	2016	77953-77962
Biocharring of natural fibers of insect and plant origin: A green route for production of 'carbon based charge storage nanomaterials'	Amarish Dubey, Himanshi Jangir, Shourya Verma, Manav Saxena, Sabyasachi Sarkar, Deepu Philip and Mainak Das	Materials for Renewable and Sustainable Energy	Doi: 10.1007/ s40243- 018- 0127-7		2018	
Biocharring of natural fibers of insect and plant origin: A green route for production of 'carbon based charge storage nanomaterials'	Amarish Dubey, Himanshi Jangir, Shourya Verma, Manav Saxena, Sabyasachi Sarkar, Deepu Philip and Mainak Das	Materials for Renewable and Sustainable Energy	7	20	2018	007/s40243-01
Bioprinting for Drug Discovery and Development in Pharmaceutics	Peng, W., Datta, P., Ayan, B., Ozbolat, V., Sosnoski, D., and Ozbolat, I.T	Acta Biomaterialia	57		2017	26-46
Bioprinting for Vascular and Vascularized TissueFabrication: Recent Achievements and Future Perspectives	Datta, P., Ayan, B. and Ozbolat, I.T	Acta Biomaterialia	51		2017	Jan-20
Bioprinting of osteochondral tissues: A perspective on current gaps and future trends	P. Datta, A. Dhawan, Yin Yu, Dan Hayes, Hemanth Gudapati, Ibrahim T. Ozbolat	International Journal of Bioprinting	3	2	2017	
Bone tissue bioprinting for craniofacial reconstruction.	Datta, P., Ozbolat, V., Ayan, B., Dhawan, A. and Ozbolat, I. T	Biotechnol. Bioeng	114	11	2017	2424–2431
Carbon Nano Onions Cross Blood Brain Barrier	Bholanath Pakhira, Mitrajit Ghosh, Afreen Allam and Sabyasachi Sarkar	RSC Adv.	6	35	2016	29779-29782
Carboxymethyl guar gum synthesis in homogeneous phase and macroporous 3D scaffolds design for tissue engineering	S Kundu, A Das, A Basu, D Ghosh, P Datta, A Mukherjee	Carbohydrate Polymers	191		2018	71-78
Catecholase activity, DNA binding and cytotoxicity studies of a Cu(II) complex of a pyridoxal schiff base: synthesis, X-ray crystal structure, spectroscopic, electrochemical and theoretical studies	Piyali Adak, Bipinbihari Ghosh, Antonio Bauz, Antonio Frontera, Alexander J. Blake, Montserrat Corbella, Chitrangada Das Mukhopadhyay and Shyamal Kumar Chattopadhyay	RSC Adv, DOI: 10.1039/c6ra14059a		90	2016	86851-61
Cellular behavior of L929 and MG-63 cells cultured on electrospun nanofibers of chitosan with different degrees of phosphorylation	Datta, P., Ray, A	Prog Biomater	5	2	2016	93–100

Cubic nano-copper(I) oxides as reusable catalyst in consecutive decarboxylative C-H arylation and carbonylation: rapid synthesis of carbonyl dibenzofurans	Rammyani Pal, Nivedita Chatterjee, Manas Roy, Sabyasachi Sarkar, Swarbhanu Sarkar, Asish Kumar Sen	Tetrahedron Lett.	57	45	2016	4956–4960
Determining the effect of aflatoxin b1 using haemoglobin of human blood as interacting medium by calculation of collision energy	Bhadra Preetha, Das Mukhopadhyay Chitrangada and Mukherjee Sampad	Int. J. Adv. Res, ISSN: 2320-5407	5	4	2017	742-748
DNA–carbon nano onion aggregate: triangle, hexagon, six-petal flower to dead-end network	Deepak Gorokh Babar, Bholanath Pakhira and Sabyasachi Sarkar	Applied Nanoscience	7	6	2017	291–297
Effect of couple stresses on electrokinetic oscillatroy flow of blood in the microcirculatory system	J.C. Misra, S. Chandra	Journal of Mechanics in Medicine and Biology	18	6	2018	18500035
Effect of operating conditions and interfering substances on photochemical degradation of a cationic surfactant, Environmental technology	B Mondal, A Adak, P Datta	Environmental Technology	39	21	2018	2771-2780
Effects of heat transfer on unsteady MHD flow of blood in a permeable vessel in the presence of non-uniform heat source	A. Sinha, J.C. Misra, G.C. Shit	Alexandria Engineering Journal	55	3	2016	2023-2033
Effects of Joule heating and viscous dissipation on MHD viscous fluid flow pas a porous stretching surface	S.K. Ghosh, J.C. Misra	International Journal of Mathematics and Computation	27		2016	Oct-22
Electron Transfer Mechanisms in Molybdenum and Tungsten Model compounds	Bholanath Pakhira, Rudra Sarkar and Sabyasachi Sarkar	"Molybdenum and Tungsten Enzymes" Royal Society of Chemistry	Chapter 3 (ISBN-978-1-78262-877-4)		2016	68-93
Electrospun chitosan/polycaprolactone-hyaluronic acid bilayered scaffold for potential wound healing applications	A Chanda, J Adhikari, A Ghosh, SR Chowdhury, S Thomas, P Datta, P Saha	International Journal of Biological Macromolecules	116		2018	774-785
Essential steps in bioprinting: From pre- to post-bioprinting	Datta P, Barui A, Wu Y, Ozbolat V, Moncal KK, Ozbolat IT	Biotechnol Adv.	36	5	2018	1481-1504
Estimation of Parameters for Plasma Glucose Regulation in Type-2 Diabetics in Presence of Meal	P. Biswas, A. Sutradhar, P. Datta	IET Systems Biology	12	1	2017	18–25
Fe4S4 Cubane Type Cluster Immobilized on a Graphene Support: A High Performance H2 Evolution Catalysis in Acidic Water,	Ameerunisha Begum, Aasif Hassan Sheikh, Golam Moula & Sabyasachi Sarkar	Nature Scientific Reports	7		2017	16948
Flow of a Bingham fluid in a porous bed under the action of a magnetic field: Application to magneto-hemorheology	J.C. Misra, S.D. Adhikary	Engineering Science and Technology - an International Journal	20	3	2017	973-981

Title	Authors	Journal	Vol	Issue	Year	Pages
Fluorescent carbon nano-particles for bio-imaging applications	Manav Saxena, Joyee Mitra, Sabyasachi Sarkar	Encyclopedia of Nanoscience and Nanotechnology, (American Scientific Publisher)			2016	In Press
Free water molecules and hydrogen bonding form the basis of variation in homeopathic potencies as revealed by vibrational spectroscopy	T Sarkar, A Konar, NC Sukul, A Sukul, I Chakraborty, P Datta, A Sutradhar	International Journal of High Dilution Resarch	14	4	2016	
From the traditional way of pyrolysis to tunable photoluminescent water soluble carbon nano-onions for cells imaging and selective sensing of glucose	Kumud Malika Tripathi, Anshu Bhati, Anupriya Singh, Nidhi Rani Gupta, Sankalp Verma Sabyasachi Sarkar and Sumit Kumar Sonkar	RSC Adv.	6	44	2016	37319-37329
Functional Amyloids: Interrelationship with other Amyloids and Therapeutic Assessment to Treat Neurodegenerative Diseases	Sutapa Somchaudhury and Chitrangada Das Mukhopadhyay	International Jl of NeuroSc, Doi: 10.1080/00207454.2017.1398153	128	5	Nov, 2017	449-463
Gene selection for designing optimal fuzzy rule base classifier by estimating missing value	Amit Paul, Jaya Sil and Chitrangada Das Mukhopadhyay	Applied Soft Computing, DOI: 10.1016/j.asoc.2017.01.046	55		Feb, 2017	276-288
Graphene oxide : A No-Acid Low-Temperature Synthesis from Graphite	Bholanath Pakhira, Ankit Samanta, Gouri Sankar Das and Sabyasachi Sarkar	ChemistrySelect	2	20	2017	5564–5569
Heat and Mass Transfer in asymmetric channels during peristaltic transport of an MHD fluid having temperature-dependent properties	J.C. Misra, B. Mallick, A. Sinha	Alexandria Engineering Journal (Elsevier)	57	1	2018	391-406
Impact of Cattaneo-Christov heat flux on electroosmotic transport of third-order fluids in a magnetic environment	J.C. Misra, B. Mallick, A. Sinha, A. Roychowdhury	The European Physcial Journal Plus (Springer)	133		2018	195
Impact of luminal flow on mass transport through coronary arteries : a study relevant to drug-eluting stent	R. Saha, Sarifuddin, J.C. Misra, P.K. Mandal	International Journal of Mathematics and Computation	27		2016	40-58
Indoor Floating Dust Contains Graphene Derivative to Generate Reactive Oxygen Species with Visible Light and Oxygen	Bholanath Pakhira, Indrani Kumbhakar, Ankit Samanta, Gouri Sankar Das and Sabyasachi Sarkar	Materials Today: Proceedings	5	3	2018	10131–10136
Influence of Hall current and micro-rotation on the boundary layer flow of an electrically conducting fluid: Application to Hemodynamics	S. Chandra, J.C. Misra	Journal of Molecular Liquids	224	A	2016	818-824
Intracellular detection of toxic hypochlorite anion by using a nontoxic rhodamine based sensor	Dibyendu Sain, Shyamaprosad Goswami , Chitrangada Das Mukhopadhyay	J. Indian Chem. Soc	94		2017	1-8
Large-scale synthesis of soluble tunable-photoluminescence graphitic hollow carbon nano-rods for selective fluorescent detection of DNA	Kumud Malika Tripathi, Amit Kumar Sonker, Anshu Bhati, Jagannath Bhuyan, Anupriya Singh, Ajay Singh, Sabyasachi Sarkar and Sumit Kumar Sonkar	New J. Chem.	40	2	2016	1571-1579

Liaison between Heme Metabolism and Bioenergetics Pathways-A Multimodal Elucidation for Early Diagnosis of Oral Cancer	Ripon Sarkar, Kabita Chaterjee, Durbadal Ojha, Bijurica Chakraborty, Sanghamitra Sengupta, Debprasad Chattopadhyay, Chirasree RoyChaudhuri, Ananya Barui	Photodiagnosis and Photodynamic Therapy	21		2018	263-274
Mathematical modelling of blood flow in arteries subject to a vibrating environment	J.C. Misra, S.D. Adhikary, B. Mallick, A. Sinha	Journal of Mechanics in Medicine and Biology	18	1	2018	1850001
MHD oscillatroy channel flow, heat and mass transfer of a physiological fluid in presence of chemical reaction	J.C. Misra, S.D. Adhikary	Alexandria Engineering Journal	55		2016	287-297
Micro carbon based facial creams activate aerial oxygen under light to reactive oxygen species damaging cell	Sheli Maity, Bholanath Pakhira, Subrata Ghosh, Royina Saha, Ripon Sarkar, Ananya Barui and Sabyasachi Sarkar	Applied Nanoscience	7	8	2017	607-616
Model Compounds for Mo-Nitrate Reductase	Amit Majumdar and Sabyasachi Sarkar	Metalloenzymes in Denitrification: Applications and Environmental Impacts" Royal Society of Chemistry	Chapter 8 (ISBN-978-1-78262-334-2)		2016	170-184
Nano Carbon - {[Na10 (PrW10O36)]2.130H2O} Composite to Detect Toxic Food Coloring Dyes at Nano Level	Taposhree Dutta and Sabyasachi Sarkar	Applied Nanoscience	6	8	2016	1191–1197
Nano carbons choke breathing of mosquito larvae causing anoxia	Subrata Ghosh, Gouri Sankar Das, Rakhi Majumdar and Sabyasachi Sarkar	Journal of Vector Borne Diseases	55	2	2018	159-164
Nano iron pyrite (FeS2) exhibits bi-funtional electrode character	Amarish Dubey, Sushil Kumar Singh, Brindan Tulachan, Manas Roy, Gaurav Srivastava, Deepu Philp, Sabyasachi Sarkar and Mainak Das	RSC Adv.	6	20	2016	16859-16867
Nano iron pyrite seed dressing: A sustainable intervention to reduce fertilizer consumption in vegetable (beetroot, carrot), spice (fenugreek), fodder (alfalfa) and oil seed (mustard, sesamum) crops	Chinmaya Kumar Das,Gaurav Srivastava, Amarish Dubey, Manas Roy, Shikha, Jain, Niroj Kumar Sethy, Manav Saxena, Sanjay Harke, Sabyasachi Sarkar, Kshipra Misra, Sushil Kumar Singh, Kalpana Bhargava, Deepu Philip, Mainak Das	Nanotechnol. Environ. Eng,	1	2	2016	01--12
Neurological dysfunction caused by brain tumor-generated solid stress is reversed by lithium	Seano G, Nia H.T, Emblem K.E., Datta M, Ren J, Kloepper J, Krishnan S, Ghosh M, Pinho M.C., Askoxylakis V, Ferraro G.B., Riedemann L, Gerstner E.R., Batchelor T.T., Wen P.Y., Lin N.U., Grodzinsky A.J., Fukumura D, Huang P, Baish J.W., Padera T.P., Munn L.L., Jain R.K.	Nature Biomedical Engineering	In press	In press	2018	In press

Title	Authors	Journal	Vol	Issue	Year	Pages
Non-Newtonian flow of blood in a catheterized bifurcated a catheterized stenosed artery	J.C. Misra, G.C. Shit, R. Pramanik	Journal of Bionic Engineering	15	1	2018	173-184
Osseointegration Assessment of Extrusion Printed Ti6Al4V Scaffold towards Accelerated Skeletal Defect Healing via Tissue in-growth	Srivas, P.K., Dadich, P., Datta, P., Dhara, S.,	Bioprinting	6		2017	Aug-17
Photoinduced Electron Transfer from Oxo-Mo IV Selenolato Complex to Oxygen	Joyee Mitra and Sabyasachi Sarkar	New J. Chem.	40	1	2016	626-633
Pico-level DNA sensing by hetero-polymetalate, $Na_{10}\{Dy_2W_{10}O_{30}(\mu-S)_6\}\cdot 80H_2O$, cluster	Taposhree Dutta, Jhuma Ganguly and Sabyasachi Sarkar	Applied Nanoscience	8	5	2018	1259-65
Pre-cancer risk assessment in habitual smokers from DIC images of oral exfoliative cells using active contour and SVM analysis		Dey, S., Sarkar, R., Chatterjee, K., Barui, A., Maity, S.P.	49	296-306	2017	
Precise Segmentation and Classification of Epithelial Rete-Pegs Signature in Assessing Lower Limb Wound Healing Progression	S Dey, A Ray, NC Maiti, P Banerjee, J Chatterjee, SP Maity, J Chatterjee, A Barui	Journal of Medical and Biological Engineering			2018	01-Dec
Preparation of Iron–Sulfur Cubane Nanoclusters and Their Immobilization on Functionalized Carbon Nanotubes	Aasif Hassan Sheikh, Moumita Bose, Sabyasachi Sarkar, and Ameerunisha Begum	Journal of Nanoscience and Nanotechnology	18		2018	1-8
Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies	Uday Narayan Guria, Kalipada Maiti, Syed Samim Ali, Sandip Kumar Samanta, Debasish Mandal, Ripon Sarkar, Pallab Datta, Asim Kumar Ghosh, Ajit Kumar Mahapatra	New Journal of Chemistry	42	7	2018	5367-5375
Reaction-based ratiometric fluorescent probe for selective recognition of sulfide anions with a large Stokes shift through switching on ESIPT	P. Karmakar, S. Manna, S. Ali, U. Guria, R. Sarkar, P. Datta, D. Mandal, A. K. Mahapatra	New Journal of Chemistry	42		2018	76-84
Repositing honey incorporated electrospun nanofiber membranes to provide anti-oxidant, anti-bacterial and anti-inflammatory microenvironment for wound regeneration	R Sarkar, A Ghosh, A Barui, P Datta	Journal of Materials Science: Materials in Medicine	29	3	2018	31-47
Rerouting Mesenchymal Stem Cell Trajectory towards Epithelial Lineage by Engineering Cellular Niche,	Ananya Barui, Farhan Chowdhury Abhay Pandit, Pallab Datta	Biomaterials	156		2017	
Reusable palladium nanoparticles in one-pot domino Sonogashira-cyclization: Regio- and stereo- selective syntheses of (Z)-3-methyleneisoindoline-1-ones and furo[3,2 h]quinolines in water	Rammyani Pal, Nivedita Chatterjee, Manas Roy, El Said A. Nouh, Sabyasachi Sarkar, Parasuraman Jaisankar, Swarbhanu Sarkar and Asish Kumar Sen	Tetrahedron Lett.	57	1	2016	43-47

Title	Authors	Journal	Vol	Issue	Year	Pages
Risk prediction for oral potentially malignant disorders using fuzzy analysis of cytomorphological and autofluorescence alterations in habitual smokers	Ripon Sarkar, Susmita Dey, Mousumi Pal, Ranjan Rashmi Paul, Jyotirmoy Chatterjee, Chirasree RoyChaudhuri, Ananya Barui	Future Oncology	13	6	2018	499-511
Role of Curcumin in Treatment of Alzheimer Disease. Int J Neurorehabilitation	Mukhopadhyay CD, Ruidas B, Chaudhury SS	Int J Neurorehabilitation, Doi: 10.4172/2376- 0281	4	3	2017	274-280
Seed stimulant effect of nano iron pyrite is compromised by nano cerium oxide: Regulation by the trace ionic species generated in the aqueous suspension of iron pyrite	Chinmaya Kumar Das, Gaurav Srivastava, Amarish Dubey, Shourya Verma, Manav Saxena, Manas Roy, Deepu Philip, Sabyasachi Sarkar, Niroj Kumar Sethy and Mainak Das	RSC Adv.	6		2016	67029-67038
Self-Assembled Nanotubes from Single Fluorescent Amino Acid	Deepak Gorokh Babar and Sabyasachi Sarkar	Applied Nanoscience	7	3	2017	101–107
Sequential entrapping of Li and S in a conductivity cage of N-doped reduced graphene oxide supercapacitor derived from silk cocoon: a hybrid Li–S-silk supercapacitor	Himanshi Jangir, Mohit Pandey, Rishabh Jha, Amarish Dubey, Shourya Verma, Deepu Philip, Sabyasachi Sarkar and Mainak Das	Applied Nanoscience	8	3	2018	379-393
Simple Bisthiocarbonohydrazone as a Sensitive, Selective, Colorimetric, and Ratiometric Fluorescent Chemosensor for Picric Acids	Kalipada Maiti, Ajit Kumar Mahapatra, Ankita Gangopadhyay, Rajkishor Maji, Sanchita Mondal, Syed Samim Ali, Sujoy Das, Ripon Sarkar, Pallab Datta, and Debasish Mandal	ACS Omega	4	2	2017	1583–1593
Soft magnetic memory of silk cocoon membrane	Manas Roy, Amarish Dubey, Sushil Kumar Singh, Kalpana Bhargava, Niroj Kumar Sethy, Deepu Philip , Sabyasachi Sarkar, Alok Bajpai, Mainak Das	Nature Scientific Reports	6		2016	29214
Stagnation point flow and heat transfer on a thin porous sheet: Application to flow dynamics of the circulatory system	J.C. Misra, A. Sinha, B. Mallick	Physica A: Statistical Mechanics and its Applications	470		2017	330-344
Substrate Induced Morphology in a Hydrosulfide-Molybdenum Complex	Joyee Mitra and Sabyasachi Sarkar	New J. Chem.	40	10	2016	8905-8910
Surface wave propagation in an initially stressed heterogeneous medium having a sandy layer and a point source	S. Manna, J.C. Misra, S. Kundu, S. Gupta	Geomechanics and Engineering: An International Journal	16	2	2018	
Sustainable changes in the contents of metallic micronutrients in first generation gram seeds imposed by carbon nano-onions: A life cycle seed to seed study	Kumud Malika Tripathi, Anshu Bhati, Anupriya Singh, Amit Kumar Sonker, Sabyasachi Sarkar, and Sumit Kumar Sonkar	ACS Sustainable Chem. Eng.	5	4	2017	2906-2916
Sustainable feasibility of the environmental pollutant soot to few layered photoluminescent graphene nanosheets for multifunctional applications	Kumud M. Tripathi, Anupriya Singh, Anshu Bhati, Sabyasachi Sarkar, and Sumit Kumar Sonkar	ACS Sustainable Chem. Eng.	4	12	2016	6399–6408

Title	Authors	Journal/Publication	Vol	Issue	Year	Pages
Theoretical analysis of torsional wave propagation in a heterogeneous aeolotropic stratum over a viogt-type viscoelastic half-space	S. Manna, S. Kundu, J.C. Misra	International Journal of Geomechanics	18	6	2018	
Transplantation of Bioprinted Tissues and Organs: Technical and Clinical Challenges and Future Perspectives	Ravnic, D., Leberfinger, A., Dey, M., Koduru, S., Hospodiuk, M., Datta, P., Moncal, K. K., Rizk, E. and Ozbolat, I.T	Annals of Surgery	266	1	2017	48-58
Visible light induced degradation of pollutant dyes using a self-assembled graphene oxide–molybdenum oxo-bis(dithiolene) composite	Joyee Mitra, Manav Saxena, Navendu Paul, Ekata Saha, Rudra Sarkar and Sabyasachi Sarkar	New Journal of Chemistry	42	17	2018	14229-14238
Gene selection and decision tree based classification for cancerous sample detection	Sunanda Das, Asit Kumar Das	International Journal of Biomedical Engineering and Technology	21	1	2016	001-014
Probability Based Most Informative Gene Selection on Microarray Data	Sunanda Das, Asit Kumar Das	International Journal of Rough Sets and Data Analysis			2016	
Cluster Analysis for overlapping Clusters using Genetic Algorithm	Sunanda Das, Shreya Chaudhuri, Asit K Das	ICRCICN			2016	
Stable cluster formation Using Genetic Algorithm	Sunanda Das, Shreya Chaudhuri, Asit K Das	ICACIE			2016	
Simultaneous Feature Selection and Cluster Analysis using Genetic Algorithm	Sunanda Das, Shreya Chaudhuri, Asit K Das	ICIT			2016	
An approach to Development of an Ensemble Classification System	Shampa Sengupta, Asit.K.Das	IEEE International Conference on Research in Computational Intelligence and Communication Networks ICRCICN			2016	
Secure Inter-Vehicle Communication - A Need for Evolution of VANET Towards IoV	S. Mitra and A. Mondal	Chapter 4 of the book "IoT: Connectivity Frameworks of Smart Devices" Springer			2016	63-96
TDMAC - A Timestamp Defined Message Authentication Code for Secure Data Dissemination in VANET	A. Mondal and S. Mitra	ANTS			2016	
TDHA: A Timestamp Defined Hash Algorithm for Message Authentication in VANET	A. Mondal and S. Mitra	International Conference on Computational Modelling and Security (CMS), Elsevier, Procedia Computer Science Journal			2016	182-189
LoWaNA: Low-overhead Watermark Based Node Authentication in WSN	Arpan Sen, Tanusree Chatterjee and Sipra DasBit	Wireless Networks, Springer	22	7	2016	2453-2467
An Energy Efficient Video Compression using Differential Inter Frame Partial Discrete Wavelet Transform for WMSN	Rajib Banerjee and Sipra DasBit	INDICON			2016	

Title	Authors	Venue	Vol	Issue	Year	Pages
Disaster Messenger: An Android based Infrastructure Less Application for Post Disaster Information Exchange	S. Bhattacharjee, S. Kanta, S. Modi, M. Paul and Sipra DasBit	ANTS			2016	
LionBEAR: A Location Based Energy Aware Routing Scheme in DTNs	N. Das, A. Roy and S. DasBit	Int. Conf. DIPDMWC			2016	75-80
Interactive Information Crowdsourcing for Disaster Management Using SMS and Twitter: A Research Prototype	A. Das, N. Mallik, S. Bandyopadhyay, S. DasBit	CASPer			2016	
Best-effort Delivery of Emergency Messages in Post-disaster Scenario with Content-based Filtering and Priority-enhanced PRoPHET over DTN	S. Bhattacharjee, S. Basu, S. Roy, S. DasBit	COMSNET			2016	001-007
A Human Mobility Based Knowledge Sharing Approach for Post Disaster Need Assessment using DTN	S. Basu, S.Roy, S. DasBit, S. Bandyopadhyay	ICDCN			2016	
Reliable Logic Design with Defective Nano-crossbar Architecture	Malay Kule, Hafizur Rahaman, Bhargab B. Bhattacharya	IEEE International Conference on Distribute Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)			2016	
High-Speed Decoder Design using Memristor-Based Nano-Crossbar Architecture Authors	Malay Kule, Avik Dutta, Hafizur Rahaman, Bhargab B. Bhattacharya	accepted in Sixth IEEE International Symposium on Embedded Computing and System Design (ISED)			2016	
An Improved Cryptanalysis Technique Based on Tabu Search for Knapsack Cryptosystem	Tamoghna Mandal, Malay Kule	International Journal of Control Theory and Applications	9	16	2016	8295-8302
Thought Concentration Controlled Dexterous prosthetic arm for Handicapped	Biswarup Neogi, Samit Biswas, Bipasha Chakrabarti, Abhijit Das, Sudipta Paul, Sudipta Ghosh, Debasish Kundu, Swati Barui	The Patent Office Journal, Kolkata, India, Application No - 201631017174, Publication Date: 26 - 06 - 2016.			2016	
Hybrid Soft Computing Approaches to Content based Video Retrieval: A Brief Review	Hrishikesh Bhaumik, Siddhartha Bhattacharyya, Mausumi Das Nath and Susanta Chakraborty	Journal of Applied Soft Computing	46		2016	1008-1029
A Novel Two Phase Routing Technique in Digital Microfluidic Biochip	Sarit Chakraborty, Chandan Das, Susanta Chakraborty and Partha P Dasgupta	Journal of IET Computers & Digital Techniques	10	5	2016	233-242
A Novel mixing Technique for low cost sample preparation in Digital Microfluidic Biochip	Sarit Chakraborty, Chandan Das, Susanta Chakraborty	7th International conference on Reliability Aware System Design and Test. (RASDAT)			2016	
A Novel Design of reversible Crypographic Circuit	Bikromadittya Mondal Pradyut Sarkar, and Susanta Chakraborty	7th International conference on Reliability Aware System Design and Test. (RASDAT)			2016	

Title	Authors	Venue	Vol	Issue	Year	Pages
Redundancy Elimination in Video Summarization	H. Bhaumik, S. Bhattacharyya and S. Chakraborty	Image Feature Detectors Foundations, Innovations, and Applications, Springer Verlag			2016	173-202
An Efficient Reversible Cryptographic Circuit Design	Bikromadittya Mondal , and Susanta Chakraborty	20th VLSI Design and Test Symposium (VDAT)			2016	
An Unsupervised Modified Spatial Fuzzy C-mean Method for Segmentation of Brain MR Image	Kamarujjaman, Mausumi Maitra and Susanta Chakraborty	5th International Conference on Advances in Computing, Communications and Informatics			2016	125-131
An Edge Contribution-Based Approach to identify Influential nodes	Samya Muhuri, Susanta Chakraborty and S.K Setua	2nd IEEE International Symposium on Nanoelectronic and Information Systems			2016	
A Novel Approach towards Biochemical Synthesis on Cyberphysical Digital Microfluidic Biochip	Sarit Chakraborty, Susanta Chakraborty	30th International Conference on VLSI Design (accepted)			2017	
An Empirical Study of Socialbot Infiltration Strategies in the Twitter Social Network	C. Freitas, F. Benevenuto, A. Veloso, S. Ghosh	Social Network Analysis and Mining, Springer	6	23	2016	1-16
Post Disaster Situation Awareness and Decision Support through Interactive Crowdsourcing	M. Basu, S. Bandyopadhyay, S. Ghosh	Procedia Engineering, Elsevier	159		2016	167-173
Characterizing Communal Microblogs during Disaster Events	Koustav Rudra, Ashish Sharma, Niloy Ganguly, S. Ghosh	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)			2016	
Forgetting in Social Media: Understanding and Controlling Longitudinal Exposure of Socially Shared Data	M. Mondal, J. Messias, S. Ghosh, K. P. Gummadi, A. Kate	USENIX Symposium on Usable Privacy and Security (SOUPS)			2016	287-299
Dissemination Biases of Social Media Channels: On The Topical Coverage of Socially Shared News	A. Chakraborty, S. Ghosh, N. Ganguly, K. P. Gummadi	AAAI International Conference on Web and Social Media (ICWSM)			2016	559-562
On the Wisdom of Experts vs. Crowds: Discovering Trustworthy Topical News in Microblogs	M. B. Zafar, P. Bhattacharya, N. Ganguly, S. Ghosh, K. P. Gummadi	ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW)			2016	438-451
A Memory Efficient DNA Sequence Alignment Technique Using Pointing Matrix	S. Saha Ray, A. Banerjee, A. Datta, S. Ghosh	TENCON			2016	
A Hash Based Architecture of Longest Prefix Matching for Fast IP Processing	S. Ghosh, M. Baliyan	TENCON			2016	
A Hardware-Based High-Throughput DNA Sequence Alignment Scheme	S. S. Ray, N. Srivastava, S. Ghosh	INDICON			2016	

SRAM Based Novel Hardware Architecture for Longest Prefix Matching for IP Route Lookup	S. S. Ray, S. Ghosh, B. Sardar	Photonic Network Communications – Springer			2016	
Touch and track: An anti-theft and data protection technique for smartphones	Roy S., Shah A.K., Bhattacharya U.	Communications in Computer and Information Science	625		2016	347-357
Overview on location management in PCS network: A survey	Choudhury A., Sharma A., Bhattacharya U.	Smart Innovation, Systems and Technologies	43		2016	359-364
On improving static routing and wavelength assignment in WDM all-optical mesh networks	Bandyopadhyay A., Chakraborty D., Bhattacharya U., Chatterjee M.	Smart Innovation, Systems and Technologies	43		2016	337-346
CAC_DPLB_MCN: A Distributed Load Balancing scheme in Multimedia Mobile Cellular Networks	M. Chatterjee, A. Sharma and U. Bhattacharya	Foundations of Computing and Decision Sciences			2016	
A High Throughput Internet Access Protocol (HTIAP) for Moving Things in Smart Cities	Arvind Kumar Shah, Sohini Roy, Abhijit Sharma and Uma Bhattacharya	International Conference on Advances in Computing, Communications and Informatics			2016	
Optimal Power Allocation for Cognitive Radio Multicast Networks under Primary Users' Outage Loss Constraint	Sangeeta Bhattacharjee, Tamoghna Acharya, Uma Bhattacharya	IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)			2016	
On the Reliability of Majority Logic in Qunatum-dot Cellular Automata	B. Sen, Y. Sahu, R. Mukherjee, R. K Nath and B. K. Sikdar	Microelectronics Journal	47		2016	7-18
A Cellular Automata Based Highly Accurate Memory Test Hardware Realizing March C−	Mousimi Saha, Mamata Dalui and Biplab K Sikdar	Microelectronics Journal	52		2016	91-103
Towards designing reliable universal QCA architecture in the presence of cell deposition defect	B Sen, R. mukherjee, Y Sahu, R. k Nath and Biplab k Sikdar	29th Inernational conference of VLSI design			2016	575-576
Towards the design of hybrid qca tiles targeting high fault tolerance	B. Sen, M. Dutta, R. Mukherjee, R. Nath, A. Sinha, and B. Sikdar	Journal of Computational Electronics	15	2	2016	429-445
A Cache System Design for CMPs with Built-in Coherence Verification	Mamata Dalui and Biplab K Sikdar	VLSI Design, Hindawi Publishing Corporation			2016	
Design of Testable Adder in Quantum-dot Cellular Automata with Fault Secure Logic	Mrinal Goswami, Bibhash Sena, Rijoy Mukherjeea, Biplab K Sikdar	Microelectronics Journal			2016	
A Cellular Automata Based Self-correcting Protocol Processor for Scalable CMPs	Mamata Dalui, and Biplab K Sikdar	Microelectronics Journal			2016	
Design of low power five input majority voter in Quantum-dot Cellular Automata with effective error resilience	Mrinal Goswami, Bibhash Sen and Biplab K Sikdar	6th International Symposium on Embedded Computing and System Design ISED 2016			2016	101-105
MASI: An Eviction Aware Cache Coherence Protocol for CMPs	Mamata Dalui, Tannishtha Som, Shivani Bansal, Shivam Pant and Biplab K Sikdar	6th International Symposium on Embedded Computing and System Design ISED 2016			2016	249-253

Title	Authors	Publication			Year	Pages
CA Based Protocol Processor for Heterogeneous CMPs	Bidesh Chakraborty, Mamata Dalui and Biplab K Sikdar	6th International Symposium on Embedded Computing and System Design ISED 2016			2016	254-258
Design of CA Based Scheme for Evenhanded Data Migration in CMPs	Baisakhi Das, Supreeti Kamilya and Biplab K Sikdar	6th International Symposium on Embedded Computing and System Design ISED 2016			2016	117-121
Cellular Automata Based Fault Tolerant Resistive Memory Design	Mousumi Saha, Sutapa Sarkar Chatterjee and Biplab K Sikdar	6th International Symposium on Embedded Computing and System Design ISED 2016			2016	176-180
Design of Coherence Verification Unit for Heterogeneous CMPs Integrating Update and Invalidate Protocols	Bidesh Chakraborty, Mamata Dalui and Biplab K Sikdar	accepted in 30th International Conference on VLSI Design & 16th International Conference on Embedded Systems			2017	
ASKME: Adaptive Sampling with Knowledge Driven Vectorization of Mechanical Engineering Drawings	Sekhar Mandal, Paramita De, Partha Bhowmick and Amit Kumar Das	International Journal on Document Analysis and Recognition	19	1	2015	11–29
Hierarchical Vectorization of Electrical Drawings in Document Images by Connectivity Analysis of Symbols and Supercomponents	Paramita De, Sekhar Mandal, Partha Bhowmick	International Journal on Pattern Recognition and Image Analysis			2016	
A linear-time algorithm to compute the triangular hull of a digital object	Sarkar, A., A. Biswas, P. Bhowmick, M. Dutt, and B. B. Bhattacharya	Discrete Applied Mathematics, Elsevier			2016	
Finding Largest Rectangle inside a Digital Object	Sarkar, A., A. Biswas, M. Dutt, and A. Bhattacharya	6th International Workshop on Computational Topology in Image Context: CTIC	9667		2016	170-179
Finding Shortest Triangular Path in a Digital Object	Sarkar, A, A Biswas, S Mondal, and M Dutt	19th IAPR International Conference on Discrete Geometry for Computer Imagery			2016	206-218
Defect Tolerant Approach For Function Mapping in Nano Crossbar Using Evolutionary Algorithms	Malay Kule, Habibur Rahaman	International Conference on Microelectronics, Circuits and Systems			2016	
Fast near-duplicate detection from image streams on online social media during disaster events	Ashish Kumar Layek, Akash Gupta, Saptarshi Ghosh, Sekhar Mondal	2016 IEEE Annual India Conference (INDICON)			2016	
Continuous fitness landscape analysis using a chaos-based random walk algorithm	Jana N.D., Sil J., Das S.	Soft Computing			2016	1--28
Levy distributed parameter control in differential evolution for numerical optimization	Jana N.D., Sil J.	Natural Computing	15	3	2016	371-384
A generalized probabilistic approach for managing inconsistency to improve classifier accuracy	Sil J., Sen J.	3rd International Conference on Digital Information Processing, Data Mining, and Wireless Communications, DIPDMWC			2016	69-74

Title	Authors	Venue			Year	Pages
Head Pose Estimation for recognizing Face Images using Collaborative Representation based Classification	Srija Chowdhury and Jaya Sil	International Conference on Advances in Computing, Communications and Informatics (ICACCI)			2016	671-675
A Novel Visual Word Assignment Model for Content Based Image Retrieval	Anindita Mukherjee, Jaya Sil, Ananda S Choudhury	International Conference on Computer Vision and Image Processing (CVIP)			2016	
Query classification using LDA topic model and sparse representation based classifier	Bhattacharya I., Sil J.	3rd ACM IKDD Conference on Data Sciences, CODS	24		2016	
Image retrieval using Bag of Visual Words	Nandita Bhattacharya; Jaya Sil	International Conference on Advances in Computing, Communications and Informatics (ICACCI)			2016	1969-1975
Condition monitoring of electrical equipment using thermal image processing	Tamal Dutta; Jaya Sil; Paramita Chottopadhyay	IEEE First International Conference on Control, Measurement and Instrumentation (CMI)			2016	311-315
Mathematical modeling of predictive grinding for ball mill	Sonali Sen, Arup Kumar Bhaumik, Jaya Sil	2016 IEEE Region 10 Conference (TENCON)			2016	1180-1184
Interleaving of particle swarm optimization and differential evolution algorithm for global optimization	Jana N.D., Sil J.	International Journal of Computers and Applications	38	03-Feb	2016	116-133
Feature Selection for Adaptive Decision Making in Big Data Analytics	Jaya Sil, Asit Kumar Das	Data Science and Big Data Computing			2016	269-292
Study of Engineered Features and Learning Features in Machine Learning-A Case Study in Document Classification	Arpan Sen, Shrestha Ghosh, Debottam Kundu, Debleena Sarkar, Jaya Sil	International Conference on Intelligent Human Computer Interaction, Springer				161-172
Sparse representation based query classification using LDA topic modeling	Bhattacharya I., Sil J.	Advances in Intelligent Systems and Computing	469		2016	621-629
An offline scheme for reducing cost of protection in all-optical WDM mesh networks with fast recovery	V.Dey, A. Bandyopadhyay, U. Bhattacharya and M. Chatterjee	Int. J. Of Parallel, Emergent and Distributed Systems (SCOPUS Index)			2017	
An online cost efficient protection scheme for quck recovery in all-optical WDM mesh networks	V.Dey, M.Chatterjee, S. Bandyopadhyay and U. Bharttacharya	Photonic Network Communication, Springer, (SCI index)				
Spectrum efficiency analysis for multicast services in cognitive radio based wireless networks	S. Bhattacharya, T. Acharya and U. Bhattacharya	CSI Transactions on ICT, Springer			2017	
On optimal power allocation for energy efficient multicasting over cognative radio fading channels	S. Bhattacharya, T. Acharya and U. Bhattacharya	Proc. IEEE Twenty Third National Conference on Communication			2017	

SEMRSA: Spectrum efficient modulation-aware dynamic routing & spectrum allocaton in elastic optical network	S. Bandyopadhyay, V. Dey, M. Chatterjee and U. Bhattacharya	Int. Conf. On Computer Simulation and Modelling			2017	
Exploring the impact of connectivity on dissemination of post disaster situational data over DTN	S. Bhattacharya, S. Roy, S. Ghosh and S. DasBit	ICDCN			2017	
An energy efficient image compression scheme for wireless multimedia sensor network using curve fitting technique	Rajib Banerjee and Sipra DasBit	Wireless Networks, Springer			2017	1-17
Social-based energy-aware multicasting in delay tolerant networks	A. Roy, S. Bose, T. Acharya and S. DasBit	Journal of Network and Computer Applications, Elsevier Science	87		2017	169 to 184
Implementing multicasting and broadcasting of multimedia data in one simulator	S. Bhattacharjee, R. Chatterjee, T. Pal and Sipra DasBit	SIMUTOOLS			2017	
Social-based congestion-aware multicast in delay tolerant network	A. Roy, T. Acharya and S. DasBit	Workshop DIPW at ACM Mobihoc			2017	
A Low-Overhead Adaptive Image Compression Technique for Energy-Constrained WMSN	T. Pal and S. DasBit	Journal of Computer and Electrical Engineering, Elsevier Science	70		2017	594-615
ProDiP: PDF Based Dropbox Deployment for Improved Performance of DTN Placed for Emergency Situation Handling in a Smart City	N. Das and S. DasBit	IEEE ANTS			2017	
A Low Overhead Video Compression Technique for Energy-Starved Wireless Multimedia Sensor Network	T. Pal and S. DasBit	IEEE ANTS			2017	
Chemical Graph Mining for Classification of Chemical Reactions	Shreya Ghosh, Ankita Samaddar, Trishita Goswami and Somnath Pal	Computational Intelligence, Communications, and Business Analytics. CICBA, Springer Nature, Singapore			2017	
A Cellular Automata Based Self-Correcting Protocol Processor for Scalable CMPs	Mamata Dalui, Biplab K Sikdar	Microelectronics Journal	62		2017	108 to 119
Optimal Synthesis of QCA Logic Circuit Eliminating Wire-Crossings", IET Circuits	R K Nath, B Sen, Biplab K Sikdar	IET Circuits, Devices & Systems	11	3	2017	201 to 208
Design of Testable Adder in Quantum-dot Cellular Automata with Fault Secure Logic	M Goswami, B Sen, R Mukherjee, Biplab K Sikdar	Microelectronics Journal	60		2017	01 to 12
Reliability-Aware Design for Programmable QCA Logic with Scalable Clocking Circuit	B Sen, M R Chowdhury, R Mukherjee, M Goswami, Biplab K Sikdar	Journal of Computational Electronics	16	2	2017	473 to 485
Design of Reliable Universal QCA Logic in the Presence of Cell Deposition Defect	B Sen, M R Chowdhury, R Mukherjee, M Goswami, Biplab K Sikdar	International Journal of Electronics	104	8	2017	1285 to 1297
Evaluating Impact on CMPs' Power for Design Inaccuracy Diagnosis	Baisakhi Das, Biplab K Sikdar	International Journal of Computer Applications in Technology	56	3	2017	198 to 209

Title	Authors	Publication	Vol	Issue	Year	Pages
Design of Coherence Verification Unit for Heterogeneous CMPs Integrating Update and Invalidate Protocols	Bidesh Chakraborty, Mamata Dalui and Biplab K Sikdar	30th International Conference on VLSI Design & 16th International Conference on Embedded Systems			2017	115 to 120
Performance Analysis of Disability based Fault Tolerance Techniques for Permanent Faults in Chip Multiprocessors	Avishek Choudhury, Biplab K Sikdar	21st VLSI Design and Test Symposium (VDAT)			2017	217-224
Multi-Bit Fault Tolerant Design For Resistive Memories Through Dynamic Partitioning	Sutapa Sarkar, Mousumi Saha and Biplab K Sikdar	IEEE East West Design and Test Symposium			2017	
Periodic Boundary Cellular Automata Based Test Structure For Memory	Mousumi Saha, Baisakhi Das and Biplab K Sikdar	IEEE East West Design and Test Symposium,			2017	
CIFR: A Complete In-Place Fault Remapping Strategy for CMP NUCA Cache using Dynamic Reuse Distance	Avishek Choudhury, Biplab K Sikdar	ISED			2017	
A Group-Based Image Inpainting using Path Refinement in MRF Framework	Mrinmoy Ghorai, Sekhar Mandal and Bhabatosh Chanda	IEEE Transaction on Image Processing			2017	
Segmentation-free Word Spotting in Historical Bangla Handwritten Binarized Documents	Sugata Das and Sekhar Mandal	10th Indian Conference on Computer Vision, Graphics and Image Processing (Workshop on Digital Heritage)			2017	
A Novel Approach towards Biochemical Synthesis on Cyberphysical Digital Microfluidic Biochip	Sarit Chakraborty and Susanta Chakraborty	30th International Conference on VLSI Design			2017	
Missing Value Estimation for Microarray Data through Cluster Analysis	Soumen Kumar Pati and Asit Kumar Das	Knowledge and Information Systems, Springer	52	3	2017	709 to 750
Ensemble Classifier Design Selecting Important Genes based on Extracted Features	Soumen Kumar Pati and Asit Kumar Das	International Journal of Data Mining and Bioinformatics, Inderscience			2017	
Behavioural Analysis of Crime against Women using Graph Based Clustering Approach	Priyanka Das, Asit Kumar Das	Proceedings of 6th IEEE International Conference on Computer Communication and Informatics			2017	204 to 209
Optimal Set of Overlapping Clusters Using Multi-objective Genetic Algorithm	Sunanda Das, Shreya Chaudhuri and Asit K. Das	9th International Conference on Machine Learning and Computing, Singapore			2017	232 to 237
Crime Analysis against Women from Online Newspaper Reports and an Approach to Apply it in Dynamic Environment	Priyanka Das, Asit Kumar Das	Proceedings of IEEE International Conference on Big Data Analytics and Computational Intelligence			2017	140 to 145
Importance of Missing Value Estimation for Feature Selection in Crime Analysis	Soubhik Rakshit, Priyanka Das, Asit Kumar Das	Proceedings of 4th Springer International Conference on Internet of Things for Technological Development			2017	01 to 10

Title	Authors	Venue			Year	Pages
Particle Swarm Optimization based Incremental Classifier Design for Rice Disease Prediction	Shampa Sengupta and Asit Kumar Das,	Computers and Electronics in Agriculture, Elsevier	140		2017	443 to 451
A Two-stage Approach of Named Entity Recognition for Crime Analysis	Priyanka Das, Asit Kumar Das	Proceedings of 8th IEEE International Conference on Computer Communication and Networking Technologies			2017	
An Application of Strength Pareto Based Evolutionary Algorithm for Feature Selection from Crime Data	Priyanka Das, Asit Kumar Das	Proceedings of 8th IEEE International Conference on Computer Communication and Networking Technologies			2017	
A Noise Resilient Differential Evolution with Improved Parameter and Strategy Control	Arka Ghosh, Swagatam Das, Bijaya Ketan Panigrahi, Asit Kr. Das	IEEE Congress on Evolutionary Computation (CEC)			2017	2590 to 2597
A Switched Parameter Differential Evolution with Optional Blending Crossover for Scalable Numerical Optimization	Arka Ghosh, Swagatam Das, Sankha Subhra Mullick, Rammohan Mallipeddi, Asit Kr. Das	Applied Soft Computing, Elsevier	57		2017	329 to 352
Ensemble Feature Selection using Bi-objective Genetic Algorithm	Asit Kumar Das, Sunada Das and Arka Ghosh	Knowledge-Based Systems, Elsevier	123		2017	116 to 127
Resource Mapping During a Natural Disaster: A Case Study on the 2015 Nepal Earthquake	Moumita Basu, Saptarshi Ghosh, Arnab Jana, Somprakash Bandyopadhyay, Dr. Ravikant Singh	International Journal of Disaster Risk Reduction, Elsevier	24		2017	24 to 31
Microblog Retrieval for Post-Disaster Relief: Applying and Comparing Neural IR Models	Prannay Khosla, Moumita Basu, Kripabandhu Ghosh, Saptarshi Ghosh	ACM SIGIR Workshop on Neural Information Retrieval			2017	
Quantifying Knowledge Segregation in Society	Abhijnan Chakraborty, Muhammad Ali, Saptarshi Ghosh, Niloy Ganguly, Krishna P. Gummadi	FATREC Workshop on Responsible Recommendation (co-located with ACM Recommender Systems conference)			2017	
Identifying Post-Disaster Resource Needs and Availabilities from Microblogs	Moumita Basu, Kripabandhu Ghosh, Somenath Das, Ratnadeep Dey, Somprakash Bandyopadhyay, Saptarshi Ghosh	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining			2017	
Medical Requirements During a Natural Disaster: A Case Study on WhatsApp Chats among Medical Personnel during the 2015 Nepal Earthquake	Moumita Basu, Saptarshi Ghosh, Arnab Jana, Somprakash Bandyopadhyay, Dr. Ravikant Singh	Disaster Medicine and Public Health Preparedness, Cambridge University Press	13		2017	01 to 04
Longitudinal Privacy Management in Social Media: The Need for Better Controls	Mainack Mondal, Johnnatan Messias, Saptarshi Ghosh, Krishna P. Gummadi, Aniket Kate	IEEE Internet Computing	21	3	2017	48 to 55
Who Makes Trends? Understanding Demographic Biases in Crowdsourced Recommendations	Abhijnan Chakraborty, Johnnatan Messias, Fabricio Benevenuto, Saptarshi Ghosh, Niloy Ganguly and Krishna P. Gummadi	AAAI International Conference on Web and Social Media			2017	22 to 31
Optimizing the Recency-Relevancy Trade-off in Online News Recommendations	Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, Krishna P. Gummadi	World Wide Web conference (WWW), Perth			2017	837 to 846

A Novel Word Embedding Based Stemming Approach for Microblog Retrieval during Disasters	Moumita Basu, Anurag Roy, Kripabandhu Ghosh, Somprakash Bandyopadhyay, Saptarshi Ghosh	European Conference on Information Retrieval (ECIR), Aberdeen			2017	589 to 597
Microblog Retrieval in a Disaster Situation: A New Test Collection for Evaluation	Moumita Basu, Anurag Roy, Kripabandhu Ghosh, Somprakash Bandyopadhyay, Saptarshi Ghosh	ECIR workshop on Exploitation of Social Media for Emergency Relief and Preparedness			2017	22 to 31
Quantifying Search Bias: Investigating Sources of Bias for Political Searches in Social Media	Juhi Kulshrestha, Motahhare Eslami, Johnnatan Messias, Md. Bilal Zafar, Saptarshi Ghosh, Krishna P. Gummadi, K. Karahalios	ACM Conference on Computer Supported Cooperative Work and Social Computing			2017	417 to 432
Triangular Covers of a Digital Object	A. Biswas, P.Bhowmick, B.B.Bhattacharya, B.Das, M.Dutt and A.Sarkar	Journal of Applied Mathematics and Computing			2017	667 to 691
Finding a Largest Rectangle inside a Digital Object and Rectangularization	A. Sarkar, A. Biswas, M. Dutt and A. Bhattacharya	Journal of Computer and System Sciences			2017	204 to 217
A Linear-Time Algorithm to ompute the Triangular Hull of a Digital Object	A. Biswas, A. Sarkar, P. Bhowmik, M. Dutt and B. B. Bhattacharya	Discrete Applied Mathematics, Elsevier			2017	408 to 423
Flight Arrival Delay Prediction using Gradient Boosting Classifier	N. Chakrabarty, T. Kundu, S. Dandapat, A. Sarkar and D. Kole	International Conference on Emerging Technologies in Data Mining and Information Security			2017	
An Evolutionary Algorithm based Text Categorization Technique	Ajit K. Das, A.Sarkar and A.K.Das	International Conference on Computational Intelligence in Data Mining			2017	
A Graph Based Approach on Extractive Summarization	M. Dutta, Ajit. K. Das, C. Mallick, A. Sarkar, and A. K. Das	International Conference on Emerging Technologies in Data Mining and Information Security			2017	
Automatic dewarping of Camera Captured Born-Digital Bangla Document Images	Arpan Garai, Samit Biswas; Sekhar Mandal; Bidyut. B. Chaudhuri	ICAPR 2017	Accepted		2017	
Binarily-Gapped Binary Insertion Sorting Technique	S. K. Ray and S. Ghosh	IETE Journal of Research			2017	
Hybrid Trie Based Approach for Longest Prefix Matching in IP Packet Processing	S. Ghosh, S. Kesharwani, V. Mishra and S. Saha Ray	IEEE Region 10 Conference (TENCON)			2017	
Chemical graph mining for classification of chemical reactions	Ghosh, Shreya,.Samaddar, Ankita, .Goswami, Trishita and Pal, Somnath.	International Conference on Computational Intelligence, Communications, and Business Analytics	776		2017	358 to 370
A multilevel encryption technique in cloud security	Bappaditya Jana, Jayanta Poray, Tamoghna Mandal, Malay Kule	7th International Conference on Communication Systems and Network Technologies (CSNT)			2017	220 to 224
Revocation of Misbehaving Vehicles during Data Dissemination among Connected Vehicles in VANET	Atanu Mondal, Sulata Mitra	IEEE Region 10 Symposium			2017	

Title	Authors	Journal/Conference	Volume		Year	Pages
Efficient D2D Couple Scheduling in Overlay Cellular Network	Poulomi Mukherjee, Sulata Mitra	International Conference on Wireless Communications, Signal Processing and Networking			2017	401 to 408
Content-based image retrieval based on multiple extended fuzzy-rough framework	Sk. Mazharul Islam, Minakshi Banerjee, Siddhartha Bhattacharyya, Susanta Chakraborty	*Applied Soft Computing*	57		2017	102-117
A Novel Approach towards Biochemical Synthesis on Cyberphysical Digital Microfluidic Biochip	Sarit Chakraborty, Susanta Chakraborty	VLSID			2017	355 – 360
An Efficient MapReduce-based Adaptive K-Means Clustering for Large Dataset	Tapan Chowdhury, Arijit Mukherjee and Susanta Chakraborty	3rd IEEE International Symposium on Nanoelectronic and Information Systems			2017	157 – 162
An Automated Game Theoretic Approach for Co-operative Road Traffic Management in Disaster	Samya Muhuri, Debasree Das and Susanta Chakraborty	3rd IEEE International Symposium on Nanoelectronic and Information Systems			2017	145-150
Selection of appropriate metaheuristic algorithms for protein structure prediction in AB off-lattice model: a perspective from fitness landscape analysis	Nanda Dulal Jana, Jaya Sil, Swagatam Das	Information Sciences	391		2017	28-64
Gene selection for designing optimal fuzzy rule classifier by estimating missing value	Amit Paul, Jaya Sil and Chitrangada Das Mukhopadhyay	Applied Soft Computing	55		2017	276 - 288
An improved harmony search algorithm for protein structure prediction using 3D off-lattice model	Nanda Dulal Jana, Jaya Sil and Swagatam Das	International Conference on Harmony Search Algorithm			2017	304-314
Image retrieval using random forest based semantic similarity measures and SURF based visual words	Anindita Mukherjee, Jaya Sil and Ananda S. Chowdhury	Int. Conf. on Computer Vision and Image Processing, Springer			2017	
Graph based clinical decision support system using ontological framework	Nilanjana Lodh, Indrani Bhattacharya and Jaya Sil	Int. Conf. on Computational Intelligence, Communications and Business Analysis			2017	
Face Recognition from Non-Frontal Images using Deep Neural Network	Srija Chowdhury and Jaya Sil	ICAPR			2017	
Uncertainty management of health attributes for primary diagonosis	Sayan Das and Jaya Sil	Int. Conf. on Big Data Analysis and Computational Intelligence			2017	248 to 253
PCA based face recognition on curvelet compressive measurements	Suparna Biswas, Jaya Sil and Santi Maity	Int. Conf. on Computational Intelligence, Communications and Business Analysis			2017	217-229
Spatial distribution based provisional disease diagonosis in remote healthcare	Indrani Bhattacharya and Jaya Sil	PReMI, LNCS	LNCS 10597		2017	601-607

Title	Authors	Journal/Conference			Year	Pages
An efficient face recognition method using contourlet and curvelet transform	Suparna Biswas, Jaya Sil	Journal of King Saud University-Computer and Information Sciences, Elsevier			2017	
A Novel Visual Word Assignment Model for Content-Based Image Retrieval	Anindita Mukherjee, Soman Chakraborty, Jaya Sil, Ananda S Chowdhury	Proceedings of International Conference on Computer Vision and Image Processing			2017	79-87
Prediction of the state of grinding materials in run time using genetic operator	Sonali Sen, Arup Bhowmik and Jaya Sil	ICCI			2017	
Robust Vectorization Method for Electrical Circuit Drawings using Component Morphology	Paramita De, Sekhar Mandal, Partha Bhowmick and Bhabatosh Chanda	Pattern Analysis and Applications, Springer			2018	1 to 19
Figure Spotting in Indian Heritage Image	Sugata Das and Sekhar Mandal	Journal of Cultural Heritage, Elsevier	32(2018)		2108	133 to 143
A Group-based Image Inpainting using Patch Refinement in MRF Framework	Mrinmoy Ghorai, Sekhar Mandal and Bhabatosh Chanda	IEEE Transactions on Image Processing	27	2	2018	556 to 567
DETSApp: An App for Disaster Event Tweets Summarization using Images Posted on Twitter	Ashish Kumar Layek, Abhishek Pal, Rahul Saha and Sekhar Mandal	In Proceedings of 5th International conference of Emerging			2018	
Segmentation of Meaningful Text-Regions from Camera Captured Document Images	Arpita Dutta, Arpan Garai, Samit Biswas	2018 Fifth International Conference on Emerging Applications of Information Technology (EAIT)	DOI: 10.1109/EAIT.2018.8470403		2018	1 to 4
Automatic Abstraction of Combinational Logic Circuit from Scanned Document Page Images	Ramanath Datta, Sekhar Mandal, Samit Biswas	Pattern Recognition and Image Analysis: Advances in Mathematical Theory and Applications	Accepted		2018	
An Approach towards Analyzing Various VM Allocation Policies in the Domain of Cloud Computing	Debashis Das, Pramit Brata Chandra, Samit Biswas and Sourav Banerjee	CICBA 2018	Accepted		2018	
Construction of Simple Isothetic Polygon from a Set of Points	R. Paul, A. Sarkar, and A. Biswas	Fifth International Conference on Emerging Applications of Information Technology			2018	
Contrast Enhancement Using SavitzkiGolay Filter and Convolution Coefficient	A. Halder, S.Dutta, A.Sarkar and P.Bhattacharya	Fifth International Conference on Emerging Applications of Information Technology			2018	
Modelling & Analysis of Redundancy based Fault Tolerance for Permanent Faults in Chip Multiprocessor Cache	Avishek Choudhury, Biplab K Sikdar	VLSID			2018	115-120
A Utility Driven Post Disaster Emergency Resource Allocation System using DTN	S. Basu, S. Roy, S. Bandyopadhyay and S. DasBit	IEEE Transactions on Systems, Man, and Cybernetics: Systems			2018	1-13

DPDRM: A Decentralized Post-Disaster Resource Management Scheme using Energy Efficient Smart Phone Based DTN	S. Bhattacharjee, S. Roy and S. DasBit	Journal of Network and Computer Applications, Elsevier Science	111		2018	1-16
Wise-PRoPHET: A Watchdog Supervised PRoPHET for Reliable Dissemination of Post Disaster Situational Information over Smartphone based DTN	S. Basu, A. Biswas, S. Roy and S. DasBit	Journal of Network and Computer Applications, Elsevier Science	109		2018	11 to 23
A Post Disaster Demand Forecasting System using Principal Component Regression Analysis and Case-Based Reasoning over Smartphone based DTN	S. Basu, S. Roy and S. DasBit	IEEE Transactions on Engineering Management			2018	1-16
Quality of Service in Delay Tolerant Networks: A Survey	A. Roy, T. Acharya and S. DasBit	Journal Computer Communications, Elsevier Science	130		2018	121 to 133
Contrast Enhancemnet Using SavitzkiGolayFilter and Convolution Coefficient	Amiya Halder, S.Dutta, Apurba Sarkar and P. Bhattacharya	Fifth International Conference on Emerging Applications of Information Technology EAIT-2018			2018	1 to 6
Construction of Simple Isothetic Polygon from a Set of Points.	Raina Paul, Apurba Sarkar, and Arindam Biswas	Fifth International Conference on Emerging Applications of Information Technology EAIT-2018			2018	1 to 4
A dynamic spatial fuzzy C-means clustering-based medical image segmentation	Amiya Halder, A. Maity, Apurba Sarkar, A. Das	nternational Conference on Emerging Technologies in Data Mining and Information Security, IEMIS		813	2018	829 to 836
A change detection technique using rough c-means on medical images	Amiya Halder, K Saha, Apurba Sarkar, A. Sen	nternational Conference on Emerging Technologies in Data Mining and Information Security, IEMIS		768	2018	197 to 205
Rough k-means and morphological operation-based brain tumor extraction	Oyendrila Dobe, Apurba Sarkar, A, Amiya Halder	Second International Conference on Integrated Intelligent Computing			2018	661 to 667
Graph-based text summarization using modified TextRank	Chirantana Mallick, Ajit Kr Das, Madhurima Dutta,Asit Kr Das, Madhurima Dutta, Apurba Sarkar	International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS		758	2018	137 to 146
Extractive summarization of a document using lexical chains	Chirantana Mallick, Madhurima Dutta, Das, Ajit Kr Das, Apurba Sarkar, Asit Kr. Das	1st international Conference on Soft Computing in Data Analytics SCDA 2018		758	2018	825 to 836
Adaptive histogram equalization and opening operation-based blood vessel extraction	Amiya Halder, Apurba Sarkar, S. Ghose	1st international Conference on Soft Computing in Data Analytics SCDA 2018		758	2018	557 to 564

Title	Authors	Venue			Year	Pages
A memory-efficient image compression method using DWT applied to histogram-based block optimization	Amiya Halder, A Kundu, Apurba Sarkar, K. Palodhi	International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS		814	2018	287 to 295
Flight Arrival Delay Prediction using Gradient Boosting Classifier	N. Chakrabarty, T. Kundu, S. Dandapat, A. Sarkar and D. Kole	International Conference on Emerging Technologies in Data Mining and Information Security		813	2018	651 to 659
A Graph Based Approach on Extractive Summarization	M. Dutta, Ajit. K. Das, C. Mallick, A. Sarkar, and A. K. Das	International Conference on Emerging Technologies in Data Mining and Information Security		813	2018	179 to 187
Synthesis of Reversible Array Divider Circuit	S. Rakshit, S. Mondal, A. Chakraborty, A. Sarkar, and D. K. Koley	Third International Conference on ICT for Competitive Strategies			2018	
An FPGA-Based Processor for Compact Sequence Alignment	S. Ghosh and A. Sarkar	IEEE International conference on Electronics, Communication and Aerospace Technology (IEEE ICECA 2018)			2018	1 to 6
Binarily Gapped Binary Insertion Sorting Technique	S. K. Ray and S. Ghosh	Institution of Electronics and Telecommunication Engineers (IETE) Journal of Research	64	3	2018	337 to 346
Movable Wireless Access Point for IoT-Based Home Automation	D. Sharma, A. Gupta, A. K. Layek and S. Ghosh	2018 15th IEEE India Council International Conference (INDICON)	Accepted		2018	
A Coarse-Grained Pipeline Architecture for Sequence Alignment	A. Sarkar and S. Ghosh	2018 15th IEEE India Council International Conference (INDICON)	Accepted		2018	
A Fine-grained Integrated IP Lookup Engine for Multigigabit IP Processing	S. Saha Ray, S. Singh, C. Sengupta, S. Ghosh and B. Sardar	2018 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)	Accepted		2018	
An Overview on Security Issues in Modern Cryptographic Techniques	Bappaditya Jana, Moumita Chakraborty, Tamoghna Mandal, Malay Kule	3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT)			2018	
An Performance Analysis of RSA Scheme Using Artificial Neural Network	Moumita Chakraborty, Bappaditya Jana, Tamoghna Mandal, Malay Kule	9th International Conference on Computing, Communication and Networking Technologies (ICCCNT)			2018	1 to 5
Maximal Defect-Free Component in Nanoscale Crossbar Circuits Amidst Stuck-Open and Stuck-Closed Faults	Malay Kule, Hafizur Rahaman, Bhargab B. Bhattacharya	Journal of Circuits, Systems and Computers (JCSC)	Accepted		2018	

Title	Authors	Journal/Conference	Vol	Issue	Year	Pages
On The Cryptanalysis of S-DES using Binary Cuckoo Search Algorithm	Ritwiz Kamal, Moynak Bag and Malay Kule	International Conference on Computational Intelligence in Pattern Recognition	Accepted		2018	
On The Synthesis of Unate Symmetric Function using Memristor-based Nano-crossbar Circuit	Subhashree Basu, Malay Kule	International Conference on Computational Intelligence in Pattern Recognition	Accepted		2018	
Cancer Classification by Gene subset selection from Microarray dataset	Asit Kumar Das and Soumen Kumar Pati	Journal of Universal Computer Science	24	6	2018	682 to 710
A group incremental feature selection for classification using rough set theory based genetic algorithm	Asit Kumar Das, Shampa Sengupta and Siddhartha Bhattacharyya	Applied Soft Computing, Elsevier	65	C	2018	400 to 411
Attribute Selection for Improving Spam Classification in Online Social Networks : A Rough Set Thery based Approach	Soumi Dutta, Sujata Ghatak, Ratnadeep Dey, Asit Kumar Das and Saptarshi Ghosh	Social Network Analysis and Mining, Springer	8	1	2018	
Sparsity measure of a network graph:Gini index	Swati Goswami, C. A. Murthy and Asit Kumar Das	Information Sciences, Elsevier	462		2018	16 to 39
Ensemble Algorithms for Microblog Summarization	Soumi Dutta, Vibhash Chandra, Kanav Mehra, Asit Kumar Das, Tanmoy Chakraborty, and Saptarshi Ghosh	IEEE Intelligent Systems	33	3	2018	4 to 14
A Modified Differential Evolution With Distance-based Selection for Continuous Optimization in Presence of Noise	Arka Ghosh, Swagatam Das, Rammohan Mallipeddi, Asit Kumar Das and Subhransu S. Dash	IEEE Access	5		2017	1 to 21
Feature Selection based on Biobjective Differential Evolution	Sunanda Das, Asit Kumar Das and Arka Ghosh	Journal of Computing Science and Engineering	11		2017	130 to 141
LoWVR: Low Overhead Watermark Based Vehicle Revocation Scheme in VANET	Atanu Mondal, Sulata Mitra	International Journal of Sensors, Wireless Communications and Control			2018	
Extending Security Horizon through Identification Authentication and Tracking Services in Hierarchical Vehicular Networks	Atanu Mondal, Sulata Mitra	International Journal of Computers and Electrical Engineering, Elsevier	69		2018	479 to 496
Two Variants of Secure Routing Algorithms in Mobile Ad Hoc Network	Priyadarshini Dhar, Sulata Mitra	International Journal of Sensors, Wireless Communications and Control			2018	
Query Processing in Hybrid Wireless Network", International Journal of Sensors	Saurabh Singha, Sulata Mitra	International Journal of Sensors, Wireless Communications and Control			2018	
Dynamic Traffic Light Control Mechanism in VANET	Ananya Paul, Sulata Mitra	International Conference on Advances in Computing, Communications and Informatics			2018	

Title	Authors	Journal/Conference	Volume	Issue	Year	Pages
Efficient and Novel Broadcasting in VANET using Next Forwarder Selection Algorithm	Bidisha Bhabani, Sulata Mitra, Ananya Paul	International Conference on Advances in Computing, Communications and Informatics			2018	
Extracting Social Network and Character Categorization from Bengali Literature	Samya Muhuri, Susanta Chakraborty and Sabitri Nanda Chakraborty	IEEE Transactions on Computational Social Systems	5	2	2018	371-381
A Vague Set Approach for Shot Transition Detection in Videos Using Multiple Feature Amalgamation	H. Bhaumik, S. Bhattacharyya , and S. Chakraborty	Journal of Applied Soft Computing	Accepted			
Drug Vector Minimization in Cancer Therapy based on Boolean Logic Model of Gene Regulatory Network	Samya Muhuri, Ananya Sarkar, Sambhabi Chakraborty, and Susanta Chakraborty	IEEE ICDM 2018 Workshop on Data Mining in Networks	Accepted		2018	
Securing Module-less Synhesis on Cyberphysical Digital Micro-fludic Biochips from Malicious Intrusions	Sarit Chakraborty, Chandan Das, Susanta Chakraborty	VLSID			2018	467 - 468
Identification of differentially expressed genes to establish new Biomarker for cancer prediction	A. Paul and J. Sil	IEEE/ACM Transactions on Computational Biology and Bioinformatics. doi:10.1109/TCBB.2018.2837095	Accepted			
On prediction error compressive sensing image reconstruction for face recognition	Suparna Biswas, Jaya Sil, Santi P. Maity:	Computers & Electrical Engg. Elsevier	70: 722-735		2018	
Continuous fitness landscape analysis using a chaos-based random walk algorithm.	Nanda Dulal Jana, Jaya Sil, Swagatam Das	Soft Computing, Springer	22(3): 921-948		2018	
Graph clustering based topic modeling using feature learning approach	Isha Ganguli, Jaya Sil	ICDCN Workshops	22:1-22:2		2018	
Optimized time-lag differential method for constructing gene regulatory network	A. Paul and J. Sil	Information Science	https://doi.org/10.1016/j.ins.2018.11.019		2018	
A Bag of Constrained Visual Words Model for Image Representation	Anindita Mukherjee, Jaya Sil and Ananda S. Chowdhury	CVIP 2018				
Design of a Reliable Cache System for Heterogeneous CMPs	B Chakraborty, M Dalui, BK Sikdar	Journal of Circuits, Systems and Computers	27	14	2018	
Cellular Automata Based Test Design for Coherence Verification in 3D Caches	B Chakraborty, M Dalui, BK Sikdar	Journal of Circuits, Systems and Computers			2018	

Title	Authors	Journal/Conference	Vol	Issue	Year	Pages
An Efficient Clocking Scheme for Quantum-dot Cellular Automata	Mrinal Goswami, Anindan Mondal, Mahabub Hasan Mahalat, Bibhash Sen and Biplab K. Sikdar	**Accepted** in Journal of Electronics Letters -Taylor & Francis				
Evaluation of Misspeculation Impact on Chip-Multiprocessors Power Overhead	B Das, M Dalui, A Mondal, S Mandi, N Das, BK Sikdar	International Conference on Software and and Computer Applications,			2018	129-133
Stuck-At 0/1 Trojans on Return Address Stack	Baisakhi Das, Nilanjana Das and Biplab K Sikdar	Accepted in ISED 2018				
Hard to Detect Combinational Hardware Trojans	Nilanjana Das, Mousumi Saha and Biplab K Sikdar	Accepted in ISED 2018				
ReMiT: Redundancy Migration for Latency Aware Fault Tolerant Cache Design in Multicore	Avishek Choudhury, Brototi Mondal and Biplab K Sikdar	Accepted in ISED 2018				
Fairness in Message Delivery in Delay Tolerant Networks	A. Roy, T. Acharya and S. DasBit	Wireless Networks, Springer			2018	1-14
Performance of a Partial Discrete Wavelet Transform Based Path Merging Compression Technique for Wireless Multimedia Sensor Networks	R. Banerjee, S. Chatterjee and S. DasBit	Wireless Personal Communications, Springer			2018	
Security Issues in Named Data Networks	T. Chatterjee, S. Ruj and S. DasBit	IEEE Computer	51	1	2018	66-75
Hm2Sc: Human Movement Model for Post Disaster Scenario in Smart City	N.Das, S.Basu, S.DasBit	Workshop C-NetSys at ACM MobiCom			2018	7-12
An Efficient and Secure Directed Diffusion in Industrial Wireless Sensor Networks	J. Sengupta, S. Ruj and S. DasBit	Workshop FICN at ACM MobiCom			2018	41-46
ARPL: Supporting adaptive mixing of RPL modes to overcome memory overflow	K. Vyas, J. Sengupta, S. DasBit	IEEE-iSES			2018	
A review of inverter topologies for single-phase grid-connected photovoltaic systems	Joydip Jana, Hiranmay Saha, Konika Das Bhattacharya	Renewable and Sustainable Energy Reviews	72		2017	1256-1276
Design and development of high efficiency five stage battery charge controller with improved MPPT performance for Solar PV Systems	Joydip Jana, Hiranmay Samanta, Konika Das Bhattacharya, Hiranmay Saha,	International Journal Of Renewable Energy Research	8	2	2018	942-953
Trends and challenges of next generation grid connected photovoltaic inverter — An overview	Joydip Jana, Konika Das Bhattacharya, Hiranmay Saha	Australasian Universities Power Engineering Conference (AUPEC)			2017	121-127
Effect of centrifugation time on the optical properties of colloidal silicon nanoparticle	Susmita Biswasa, Anupam Nandi, Arnab Dhara, Apurba Baral, Hiranmay Saha, Nillohit Mukherjee, Syed Minhaz Hossain	Materials Today: Proceedings	5		2018	10028–10033
Development of graphene capped silicon–silicon oxide core–shellnano-structure: Charge trapping characteristics at the interfaces	Anupam Nandi, Susmita Biswas, Sudipta Chakrabarty, Sanhita Majumdar, Hiranmay Saha, Mahesh Saini, Syed Minhaz Hossain	Applied Materials Today	13		2018	370–380

Investigation of Optical Absorption Spectra and Scattering Efficiency of ZnO:Al Nanorods on Different Substrates	Jayasree Roy Sharma, Suchismita Mitra, Hemanta Ghosh, Sukanta Bose, Sourav Mandal, Gourab Das, Sumita Mukhopadhyay, Hiranmay Saha, A. K. Barua	Materials Today: Proceedings	4		2017	12635-12640
Growth of KOH etched AZO nanorods and investigation of its back scattering effect in thin film a-Si solar cell	Jayasree Roy Sharma, Suchismita Mitra, Hemanta Ghosh, Gourab Das, Sukanta Bose, Sourav Mandal, Sumita Mukhopadhyay , Hiranmay Saha, A.K. Barua	Physica B: Physics of Condensed Matter	530		2018	147-156
Influence of Acid and Alkali Etching on Sputtered Aluminium Doped Zinc Oxide Films	Jayasree Roy Sharma, Sukanta Bose, Sourav Mandal, Gourab Das, Sumita Mukhopadhyaya A.K. Barua	Materials Today: Proceedings	5		2018	9726-9732
Design and experimental validation of a generalized electrical equivalent model of Vanadium Redox Flow Battery for interfacing with Renewable energy sources	Ankur Bhattacharjee, Hiranmay Saha	Journal of Energy Storage	13		2017	220 – 232
Precision dynamic equivalent circuit model of a Vanadium Redox Flow Battery and determination of circuit parameters for its optimal performance in renewable energy applications	Ankur Bhattacharjee, Anirban Roy, Nipak Banerjee, Snehangshu Patra, Hiranmay Saha	Journal of Power Sources	396		2018	506-518
Development and validation of a real time flow control integrated MPPT charger for solar PV applications of Vanadium Redox Flow Battery	Ankur Bhattacharjee, Hiranmay Samanta, Nipak Banerjee, Hiranmay Saha	Energy Conversion and Management	171		2018	1449-1462
Development of an efficient thermal management system for Vanadium Redox Flow Battery under different charge-discharge conditions	Ankur Bhattacharjee, Hiranmay Saha	Applied Energy	230		2018	1182-1192
Energy Non Availability in Distribution Grid with Heavy Penetration of Solar Power: Assessment and Mitigation through Solar Smoother	Tathagata Sarkar, Ankur Bhattacharjee, Kanak Mukhopadhyay, Konika Das Bhattacharya, Hiranmay Saha	Energies	11	4	2018	2-19
Optical and electrical effects of thin reduced graphene oxide layers on textured wafer based c-Si solar cell for enhanced performance	Anupam Nandi, Sanhita Majumdar, Swapan K. Datta, Hiranmay Saha and Syed Minhaz Hossain	Journal of Materials Chemistry C	5		2017	1920-1934
Precursor dependent tailoring of morphology and bandgap of zinc oxide nanostructures	Anupam Nandi, Rittwik Majumder, Pratanu Nag, Swapan K Datta, Hiranmay Saha, Sanhita Majumdar	Journal of Materials Science: Materials in Electronics	28	15	2017	10885-10892
Light-harvesting properties of embedded tin oxide nanoparticles for partial rear contact silicon solar cells	Hemanta Ghosh, Suchismita Mitra, Sukanta Dhar, Anupam Nandi, Sanhita Majumdar, Hiranmay Saha, Swapan Kumar Datta, Chandan Banerjee	Plasmonics	12	6	2017	1761-1772

Title	Authors	Journal	Vol	Issue	Year	Pages
Synergistic Effects of Dual-Metal Catalysts for Selective Butane Detection by SnO2/Graphene Nanocomposite Sensor	Sanhita Majumdar, Anupam Nandi, Hiranmay Saha	IEEE Sensors Journal	18	16	2018	6517-6526
Application of Hybrid rGO-ITO Bilayer TCO on a-Si Solar Cell for Performance Enhancement	Anupam Nandi, Sourav Mandal, Sugato Ghosh, Sukanta Dhar, Sanhita Majumdar, Hiranmay Saha, Syed Minhaz Hossain	IEEE Journal of Photovoltaics			2018	
Piezoelectricity in Amine Functionalized Reduced Graphene Oxide	Dilip Roy, Anupam Nandi, Arijit Bardhan Roy, Sanhita Majumdar, Sourav Mandal, Avra Kundu, Syed Minhaz Hossain	Materials Today: Proceedings	5	3	2018	9876-9880
Precursor Dependent Morphologies of Microwave Assisted ZnO Nanostructures and their VOC Detection Properties	Anupam Nandy,Pratanu Nag, Hiranmay Saha, Sanhita Majumdar	Materials Today: Proceedings	5	3	2018	9831-9838
Development of graphene capped silicon–silicon oxide core–shell nano-structure: Charge trapping characteristics at the interfaces	Anupam Nandi, Susmita Biswas, Sudipta Chakrabarty, Sanhita Majumdar, Hiranmay Saha, Mahesh Saini, Syed Minhaz Hossain	Applied Materials Today	13		2018	370–380
Back scattering involving embedded silicon nitride (SiN) nanoparticles for c-Si solar cells	Hemanta Ghosh, Suchismita Mitra, M.S. Siddiqui, A.K. Saxena, Partha Chaudhuri, Hiranmay Saha,Chandan Banerjee	Optics Communications	413		2018	63-72
Study on AZO coated flexible glass as TCO substrate	Shuvaraj Ghosh, Arindam Mallick, Arindam Kole, Partha Chaudhury, Sean Garner, Durga Basak	IEEE 44th Photovoltaic Specialists Conference (PVSC)			2017	634
Improvement of photon management in partial rear contact solar cells using a combination of DBR and Mie scatterers	Suchismita Mitraa, Hemanta Ghosha, Hiranmay Sahaa, Swapan Kumar Dattaa,Partha Chaudhuria, Chandan Banerjee	Optics Communications	397		2017	1-9
Electrical transport in transverse direction through silicon carbon alloy multilayers containing regular size silicon quantum dots	Aparajita Mandal, Arindam Kole, Arup Dasgupta, Partha Chaudhuri	Applied Surface Science	387		2017	1002
Study of the VHF Plasma Etching of Micro/Nano Patterned PMMA Coated on Ultra-Thin Flexible Glass Substrates	Aparajita Mandal, Sean Garner, Partha Chaudhuri	Plasma Processes and Polymers	13	10	2016	990-996
Non lithographic block copolymer directed self-assembled and plasma treated self-cleaning transparent coating for photovoltaic modules and other solar energy devices	D.Adak,S.Ghosh,P.Chakraborty,K.M.K. srivastsa, A. Mondal, H. Saha, R. Mukherjee	Solar Energy Materials and Solar Cells	188		2018	127-139
Self-cleaning V-TiO2:SiO2 thin-film coatings with enhanced transmission for solar glass cover and related applications	D.Adak, S. Ghosh, P. Chakrabarty, A. Mondal, H. Saha, R. Mukherjee, R. Bhattacharyya,	Solar Energy	155		2017	410-418

Title	Authors	Journal	Vol	Issue	Year	Pages
ZnO/γ-Fe2O3 charge transfer interface in zinc-iron oxide hollow cages towards efficient photodegradation of industrial dyes and methanol electrooxidation.	D.Adak, ;B. Show, A.Mondal, N. Mukherjee,	Journal of Catalysis	355		2017	63-72
ZnO/γ-Fe2O3 Charge Transfer Interface toward Highly Selective H2S Sensing at a Low Operating Temperature of 30 °C	S.Ghosh, D. Adak, D. Bhattacharyya, R. Mukherjee, .	ACS Sensors	2	12	2017	1831-1838
"Oral Presentation" at 17th International Conference on Thin Films (ICTF2017) at CSIR-National Physical Laboratory, New Delhi	D.Adak	17th International Conference on Thin Films (ICTF2017)				
Innovative Utilization of Improved n-doped μc-SiO<inf>x</inf>:H Films to Amplify the Performance of Micromorph Solar Cells	Das G., Bose S., Mukhopadhyay S., Banerjee C., Barua A.K.	Silicon				
Modification of surface morphology of sputtered AZO films with the variation of the oxygen	Bose, Sukanta; Arokiyadoss, Rayerfrancis; Bhargav, P. Balaji; Ahmad, Gufran; Mandal, Sourav; Barua, A. K.; Mukhopadhyay, Sumita	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	79		2018	135
Texturization of ZnO:Al surface by reactive ion etching in SF6/Ar, CHF3/Ar plasma for application in thin film silicon solar cells	Das, Gourab; Bose, Sukanta; Sharma, Jayasree R.; Mukhopadhyay, Sumita; Barua, Asok K.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	29	8	2018	6206
Growth of KOH etched AZO nanorods and investigation of its back scattering effect in thin film a-Si solar cell	Sharma, Jayasree Roy; Mitra, Suchismita; Ghosh, Hemanta; Das, Gourab; Bose, Sukanta; Mandal, Sourav; Mukhopadhyay, Sumita; Saha, Hiranmay; Barua, A. K.	PHYSICA B-CONDENSED MATTER	530		2018	147
Optimization of the texturization of ZnO:Al surface using HCl + HNO3 for application in thin film silicon solar cells	Bose, Sukanta; Rayarfrancis, Arokiyadoss; Bhargav, P. Balaji; Ahmad, Gufran; Mukhopadhyay, Sumita; Mandal, Sourav; Barua, A. K.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	29	4	2018	3210
Influence of Acid and Alkali Etching on Sputtered Aluminium Doped Zinc Oxide Films	Roy Sharma J., Bose S., Mandal S., Das G., Mukhopadhyay S., Barua A.K.	Materials Today: Proceedings	5	3	2018	
Synthesis of ITO nanoparticles at room temperature using plasma treatment process and use it as back reflector in a-Si flexible solar cell	Das G., Mandal S., Dhar S., Bhargav P.B., Banerjee C., Mukhopadhyay S., Barua A.K.	Surfaces and Interfaces	7		2017	
Investigation of Optical Absorption Spectra and Scattering Efficiency of ZnO:Al Nanorods on Different Substrates	Sharma J.R., Mitra S., Ghosh H., Bose S., Mandal S., Das G., Mukhopadhyay S., Saha H., Barua A.K.	Materials Today: Proceedings	4	14	2017	
Hydrothermally derived nanoporous titanium dioxide nanorods/nanoparticles and their influence in dye-sensitized solar cell as a photoanode	Rajamanickam, Govindaraj; Narendhiran, Santhosh; Muthu, Senthil Pandian; Mukhopadhyay, Sumita; Perumalsamy, Ramasamy	CHEMICAL PHYSICS LETTERS	689		2017	19

Title	Authors	Journal			Year	
Effect of oxide based graded buffer and bottom n-layer on the performance of the single junction amorphous silicon solar cells	Das, Gourab; Mandal, Sourav; Mukhopadhyay, Sumita; Banerjee, Chandan; Barua, Asok K.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	21	2017	16165
Role of dual SiOx: H based buffer at the p/i interface on the performance of single junction microcrystalline solar cells	Das, Gourab; Mandal, Sourav; Dhar, Sukanta; Bose, Sukanta; Mukhopadhyay, Sumita; Banerjee, Chandan; Barua, Asok K.	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	66		2017	9
Influence of excitation frequency and electrode separation on the growth of microcrystalline silicon films and their application in single junction microcrystalline solar cell	Das, Gourab; Mandal, Sourav; Dhar, Sukanta; Bose, Sukanta; Sharma, Jayasree R.; Mukhopadhyay, Sumita; Banerjee, Chandan; Barua, Asok K.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	14	2017	10382
Development of Improved n-mu c-SiOx:H Films and Its Innovative Application in Silicon-Based Single Junction Thin Film Solar Cells	Das, Gourab; Mandal, Sourav; Dhar, Sukanta; Bose, Sukanta; Sharma, Jayasree Roy; Mukhopadhyay, Sumita; Banerjee, Chandan; Barua, Asok Kumar	IEEE JOURNAL OF PHOTOVOLTAICS	7	3	2017	892
Development of n-type microcrystalline SiOx:H films and its application by innovative way to improve the performance of single junction A mu c-Si:H solar cell	Das, Gourab; Mandal, Sourav; Dhar, Sukanta; Bose, Sukanta; Mukhopadhyay, Sumita; Banerjee, Chandan; Barua, A. K.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	8	2017	5746
Nanorods and nanoparticles of titanium dioxide and their use in dye sensitized solar cells	Govindaraj R., Magesh M., Senthil Pandian M., Ramasamy P., Mukhopadhyay S.	AIP Conference Proceedings	1731		2016	
Mesoporous TiO2 microspheres synthesized via a facile hydrothermal method for dye sensitized solar cell applications	Santhosh, N.; Govindaraj, R.; Pandian, M. Senthil; Ramasamy, P.; Mukhopadhyay, S.	JOURNAL OF POROUS MATERIALS	23	6	2016	1483
Development of optimized n-mu c-Si:H/n-a-Si:H bilayer and its application for improving the performance of single junction a-Si solar cells	Mandal, Sourav; Dhar, Sukanta; Das, Gourab; Mukhopadhyay, Sumita; Barua, A. K.	SOLAR ENERGY	124		2016	278
Effect of centrifugation time on the optical properties of colloidal silicon nanoparticle	Susmita Biswas, Anupam Nandi, Arnab Dhara, Apurba Baral, Hiranmay Saha, Nillohit Mukherjee, Syed Minhaz Hossain	Materials Today: Proceedings	5	3	2018	10028-10033
Nanostructure Evolution and Optical Properties of Silver Doped Diamond Like Carbon Thin Film on Soft Polymer	Md Alam, Chandan Kumar Ghosh, Nillohit Mukherjee, Sk Ahmed	Advanced Science Letters	24	8	2018	5731-5736
MWCNT@SiO2 Heterogeneous Nanofiller-Based Polymer Composites: A Single Key to the High-Performance Piezoelectric Nanogenerator and X-band Microwave	Epsita Kar, Navonil Bose, Biplab Dutta, Nillohit Mukherjee, Sampad Mukherjee	ACS Applied Nano Materials	1	8	2018	4005-4018

Poly (vinylidene fluoride)/submicron graphite platelet composite: A smart, lightweight flexible material with significantly enhanced β polymorphism, dielectric and microwave	Epsita Kar, Navonil Bose, Biplab Dutta, Nillohit Mukherjee, Sampad Mukherjee	European Polymer Journal	90	2017	2017	442-455
Reusable iron sulfide nanospheres towards promoted photocatalytic and electrocatalytic activities	Bibhutibhushan Show, Nillohit Mukherjee, Anup Mondal	New Journal of Chemistry	41	18	2017	10083-10094
Blue and violet defect levels mediated absorption hot spots in tapered ZnO nanorods toward improved photocatalytic activity	Sukanta Bose, Debasish Dey, Sudarshana Banerjee, Gufran Ahmad, Sourav Mandal, Asok Kumar Barua, Nillohit Mukherjee	Journal of Materials Science	52	21	2017	12818-12825
ZnO/γ-Fe2O3 charge transfer interface in zinc-iron oxide hollow cages towards efficient photodegradation of industrial dyes and methanol electrooxidation	Deepanjana Adak, Bibhutibhushan Show, Anup Mondal, Nillohit Mukherjee	Journal of Catalysis	355	2017	2017	63-72
ZnO/γ-Fe2O3 Charge Transfer Interface toward Highly Selective H2S Sensing at a Low Operating Temperature of 30 °C	Sugato Ghosh, Deepanjana Adak, Raghunath Bhattacharyya, Nillohit Mukherjee	ACS Sensors	2	12	2017	1831−1838
c-Si/n-ZnO-based flexible solar cells with silica nanoparticles as a light trapping metamaterial	Arijit Bardhan Roy, Sonali Das, Avra Kundu, Chandan Banerjee, Nillohit Mukherjee	Physical Chemistry Chemical Physics	19	20	2017	12838-12844
Correlation Between Morphology and Nanomechanical Behavior of ZnO Thin Films	Arijit Sinha, Nillohit Mukherjee	Journal of Inst. Eng. India Ser. D, Springer	98	2	2017	189-193
A turn-on fluorogenic chemosensor for Fe 3+ and a Schottky barrier diode with frequency-switching device applications	Habib Ali Molla, Rahul Bhowmick, Abu Saleh Musha Islam, Bibhutibhushan Show, Nillohit Mukherjee, Anup Mondal, Mahammad Ali	Photochemical & Photobiological Sciences	17	4	2018	465-473
Low Noise Field Effect Biosensor with Electrochemically Reduced Graphene Oxide	J Basu, A Baral, N Samanta, N Mukherjee, C Roychaudhuri	Journal of The Electrochemical Society	165	8	2018	B3201-B3207
Cu incorporated amorphous diamond like carbon (DLC) composites: An efficient electron field emitter over a wide range of temperature	Sk Faruque Ahmed, Md Shahbaz Alam, Nillohit Mukherjee	Physica E: Low-dimensional Systems and Nanostructures	97	NA	2018	120-125
Optical properties of diamond like carbon nanocomposite thin films	Md Shahbaz Alam, Nillohit Mukherjee, Sk Faruque Ahmed	AIP Conference Proceedings	1953	1	2018	90018
Electron field emission property of nanostructure wrinkle thin film induced by amorphous diamond like carbon	Md Shahbaz Alam, Nillohit Mukherjee, Sk Faruque Ahmed	Materials Today: Proceedings	5	1	2018	2082-2088
Temperature dependent dielectric properties of self-standing and flexible poly(vinylidene fluoride) films infused with Er3+ doped GeO2 and SiO2 nanoparticles	Epsita Kar, Navonil Bose, Sukhen Das, Nillohit Mukherjee, Sampad Mukherjee	Journal of Applied Polymer Science	133	40	2016	44016 (1-20)

N-acetyle cysteine assisted synthesis of core☐ shell Ag2S with enhanced light transmission and diminished reflectance: Surface modifier for c-SiNx solar cells	Sudarshana Banerjee, Bibhutibhushan Show, Avra Kundu, Jhuma Ganguly, Utpal Gangopadhyay, Hiranmay Saha, Nillohit Mukherjee	Journal of Industrial and Engineering Chemistry	40	2016	2016	54 - 61
Core-shell CuO-ZnO pn heterojunction with high specific surface area for enhanced photoelectrochemical (PEC) energy conversion	Arnab Dhara, Bibhutibhushan Show, Apurba Baral, Sumit Chabri, Arijit Sinha, Nil Ratan Bandyopadhyay, Nillohit Mukherjee	Solar Energy	136	2016	2016	327-332
α-Fe 2 O 3 nanospheres: facile synthesis and highly efficient photo-degradation of organic dyes and surface activation by nano-Pt for enhanced methanol sensing	Bibhutibhushan Show, Nillohit Mukherjee, Anup Mondal	RSC Advances	6	79	α-2016	75347-75358
Hierarchical indium tin oxide (ITO) nano-whiskers: Electron beam deposition and sub-bandgap defect levels mediated visible light driven enhanced photocatalytic activity	Sudarshana Banerjee, Sourav Mandal, Asok Kumar Barua, Nillohit Mukherjee	Catalysis Communications	87	2016	2016	86-89
Development of selective and sensitive gas sensors for manhole gas detection	Sugato Ghosh, Indranil Das, Deepanjana Adak, Nillohit Mukherjee, Raghunath Bhattacharyya, Hiranmay Saha	IEEE 10th International Conference on Sensing Technology	NA	NA	2016	1-5
Stability and Reliability of PTB7: PC71BM and PTB7: PC61BM Inverted Organic Solar Cells: A Comparative Study	Nikhil Chander, Eswaran Jayaraman, Madhu Rawat, Anirban Bagui, S Sundar Kumar Iyer	IEEE Journal of Photovoltaics	DOI: 10.1109/ JPHOT OV.2018 .287495 2			
D− π–A− π–D Structured Diketopyrrolopyrrole-Based Electron Donors for Solution-Processed Organic Solar Cells	Bommaramoni Yadagiri, Kamatham Narayanaswamy, Ravulakollu Srinivasa Rao, Anirban Bagui, Ram Datt, Vinay Gupta, Surya Prakash Singh	ACS Omega	3	10	2018	13365-13373
A fluorene-core-based electron acceptor for fullerene-free BHJ organic solar cells—towards power conversion efficiencies over 10%	Suman, Anirban Bagui, Ashish Garg, Barkha Tyagi, Vinay Gupta, Surya Prakash Singh	Chemical Communication (RSC)	54	32	2018	4001-4004
One-Step Synthesis of New Electron Acceptor for High Efficiency Solution Processable Organic Solar Cells	P. Nagarjuna, Anirban Bagui, A. Garg, V. Gupta, S. P. Singh	ACS Journal of Physical Chemistry C	121	48	2017	26615–26621
A Simple Fluorene Core-Based Non-fullerene Acceptor for High Performance Organic Solar Cells	Suman, Anirban Bagui, R. Datt, V. Gupta, S. P. Singh	Chemical Communication	53	95	2017	12790-12793

Solution-Processed Organic Solar Cells Using New Electron Acceptor Derived from Naphthalene and Fluorene Unit	P. Nagarjuna, N. Chaturvedi, Anirban Bagui, R. Runjhun, A. Garg, S.P. Singh	ChemistrySelect (Wiley)	2	26	2017	7913 – 7917
Multichromophore Donor Materials Derived from Diketopyrrolopyrrole and Phenoxazine: Design, Synthesis and Photovoltaic Performance	K. Narayanaswamy, B. Yadagiri, Anirban Bagui, V. Gupta, S. P. Singh	European Journal of Organic Chemistry (Wiley)	2017	33	2017	4896–4904
Achieving high efficiency using BODIPY dye as photoactive material for solution-processed organic solar cells	R. S. Rao, Anirban Bagui, G. H. Rao, V. Gupta, S. P. Singh	Chemical Communication (RSC)	53	51	2017	6953-6956
Molecular Engineering of Highly Efficient Small Molecule Nonfullerene Acceptor for Organic Solar Cells	Suman, V. Gupta, Anirban Bagui, S.P. Singh	Advanced functional materials (Wiley)	27	2	2017	1603820
A highly efficient PTB7-Th polymer donor bulk hetero-junction solar cell with increased open circuit voltage using fullerene acceptor CN-PC70BM	P. Nagarjuna, Anirban Bagui, V. Gupta, S.P. Singh	Organic Electronics (Elsevier)	43		2017	262-267
High-Performance Non-Fullerene Acceptor Derived from Diathiafulvalene Wings for Solution-Processed Organic Photovoltaics	Suman, Anirban Bagui, V. Gupta, K.K. Maurya, S.P. Singh	ACS Journal of Physical Chemistry C	120	43	2016	24615–24622
Effectiveness of External Electric Field Treatment of Conjugated Polymers in Bulk-Heterojunction Solar Cells	A. Solanki, Anirban Bagui, G. Long, B. Wu, T. Salim, Y. Chen, Y.M. Lam, T. C. Sum	ACS applied materials and interfaces	8	47	2016	32282–32291
New Electron Acceptor Derived from Fluorene: Synthesis and Its Photovoltaic Properties	P. Nagarjuna, Anirban Bagui, J. Hou, S.P. Singh	ACS Journal of Physical Chemistry C	120	25	2016	13390–13397
, " Harmonic Voltage Angle and operating point tracking in P-delta plane for diagnosis of Line to Ground Fault in mulyi bus power system	D. Kar. Ray, S. Chattopadhyay, K. Das Sharma, S. Sengupta	Protection and Control of Modern Power System, Springer			2016	2367
Harmonic Power angle Monitoring for Unsymmetrical Fault Diagnosis in Distribution Network	D. Kar. Ray, S. Chattopadhyay, K. Das Sharma, S. Sengupta	Sensors and Transducers,	209	2	2017	45-49
A simple algorithm for amplitude estimation of distorted power system signal	SoumyajitGoswami, Arghya Sarkar, and S. Sengupta	ELSEVIER, Measurement,	100		2017	150-156
Multi Resolution Analysis based line to ground fault detection in VSC based HVDC system	D. Kar. Ray, S. Chattopadhyay, S. Sengupta	IETE Journal of Research	66		2018	1-14
"Inter-turn short circuit assessment of dc motor used in railway locomotive with a case study	D. Kar. Ray, S. Chattopadhyay, K. Das Sharma, S. Sengupta	IET Electric Power Application	1751		2018	

Fault diagnosis in isolated renewable energy conversion system using Skewness and Kurtosis Assessment	D. Kar. Ray, S. Chattopadhyay, S. Sengupta	Advances in Intelligent Systems and Computing	749		2018	1-6
Effect of Grannular Layer Strength and Thickness on Jute Geotextiles Reinforced Rural Road	Patra, Souvik and Bera, A.K	International symposium on Geotechnics of Transportation Infrastructure (ISGT)			2018	658-663
Investigation of Uplift Behaviour of Bell – Shaped Anchor in c-f Soil	Das, A and Bera A.K.	International Journal of Trends and Recent Advances in Civil Engineering(Trace2018)			2018	
Bearing Capacity of footing on sand overlay by soft soil using ABAQUS: A numerical Based Study	Arijit Saha, Souvik Patra, Arya Das, and Ashis Kumar Bera	IGC Calcutta 2018 (Kolkata Chapter)			2018	
A Three Dimensional Finite Element Model for Simulating Response of Sand JGT- Sand Reinforced Rural Road	Patra, Souvik and Bera, A.K	Indian Geotechnical Conference 2017 GEO Nest			2017	
An experimental study on behaviour of square footing on sand reinforced with single layer geotextile	Bera, A.K. and Dalal, A	IGC Calcutta 2018 (Kolkata Chapter)			2016	
Effect of GBFS content on engineering properties of soft soil GBFS mixture	Bera, A.K. and Mukherjee, D	IGC Calcutta 2018 (Kolkata Chapter)			2016	
Field and Numerical Investigation on Time-Dependent Behavior of Jute Geotextile (JGT) Reinforced Rural Road	Patra S., Bera A.K.	IGC Channi			2016	
Influenced of Granulated Blast Furnace Slag contents on CBR value of Clay GBFS Mixtures	Bera A.K., Das, A., and Patra, S	IGC Channi			2016	
Combined effect of vehicle and thermal load on FRP bridge deck	Moumita Sit and Chaitali Ray	ICSECM, Kandy, Srilanka			2016	
A modified higher order zigzag theory for stress analysis of composite laminates	Dhiraj Biswas and Cjhaitali Ray	ICTACEM, IIT Kharagpur			2017	
Comparative study of biocomposite and synthetic FRP composite with experimental verification	Moumita Sit and Chaitali Ray	ICTACEM, IIT Kharagpur			2017	
Free vibration analysis of laminated composite plates and shells subjected to concentrated mass at the centre	Arpita Mindal, Chaitali Ray and Salil Haldar	ICTACEM, IIT Kharagpur			2016	
Hygrothermal free vibration analysis of FRP bridge deck using higher order shear deformation theory	Moumita Sit and Chaitali Ray	SEC, SERC Chennai			2016	

Experimental verification of free vibration analysis of laminated stiffened plate considering HSDT and FSDT", Proceedings	Dhiraj Biswas, Moumita Sit and Chaitali Ray	SEC SERC Chennai			2016	
A finite element model based sensitivity analysis of deep and moderately thick cross ply laminated shell structure	Sandipan Nath Thakur, Chaitali Ray and Subrata Chakraborty	SEC, SERC Chennai			2016	
Assessment of Safety Performance on Two-Lane Roads under Mixed Traffic: A Review of Recent Research and Future Research Needs	Basu, S., Roy, N., Saha, P.	97th Annual Meeting of the Transportation Research Board (TRB), Transportation Research Board of the National Academics			2018	
An Empirical Analysis of Time Headways on Two-lane Roads with Mixed Traffic	Roy, R., Saha, P.	International Conference on Reliability and Statistics in Transportation and Communication			2017	192-203
Rising growth of e-rickshaws in Indian traffic context: A challenge in efficient traffic operation	Mondal, S., Saha, P.	32nd Indian Engineering Congress			2017	153-160
A critical review of regression models for analysing highway crash data	Basu, S., Saha, P.	12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, 2016, (TPMDC) in IIT Bombay.			2016	
Evaluation of pedestrian Speeds on Sidewalks: A Comparative Study at the Commercial Hubs in the Twin Cities of Kolkata and Howrah	Mukherjee D., Das, S., Saha, P., Roy, S.K.	13th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, 2016, (TPMDC) in IIT Bombay.			2016	
Analysis of Time Headways under Heavy Traffic Flow Conditions on Two-lane Roads: Case Study from North-East India	Roy, R., Roy, N., Saha, P., Sarkar, A. K.	14th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, 2016, (TPMDC) in IIT Bombay.			2016	
Efficient Robust Design Optimization of Steel Industrial Building under Stochastic Extreme Wind Load	Datta, G., Bhattacharjya , S., Chakraborty, S.	Advances in Concrete, Structural, & Geotechnical Engineering (ACSGE)			2018	
Wind Fragility Assessment of RC Chimney Considering Temperature Effects	Sahoo, A., Bhattacharjya, S., and Ghosh, S. K.	Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2017),			2017	

Fatigue Life Assessment of an Existing Railway Bridge in India Incorporating Uncertainty	Chanda, M., Mishra, K. C., Bhattacharjya, S.	Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2017),			2017	
An Efficient Metamodelling based Robust Design Optimization of Structure under Stochastic Extreme Wind Load	Datta, G. and Bhattacharjya, S.	Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2017)			2017	
Efficient Optimum Mix Design Procedure for Rice Husk Ash Concrete considering Robustness and Parameter Uncertainty in Metamodelling Framework	Moulick, K.K., Bhattacharjya, S. and Ghosh, S. K	International Conference on Structural Safety and Reliability (ICOSSAR 2017)			2017	
Robust Optimal Design of Buried Reinforced Concrete Pipe in Trenchless Construction under Bounded Type Uncertainty considering Seismic Load	Mukherjee, S., Shaw, PK, Datta, G., Bhattacharjya, S., and Ghosh, S.	Structural Engineering Convention SEC 2016			2016	
Adaptive Metamodel Based Efficient Robust Design Optimization of Offshore Structure Under Stochastic Wave Loading	Datta, G., Bhattacharjya, S. and Chakraborty , S.	Structural Engineering Convention SEC 2016			2016	
Adaptive Metamodel Based Efficient Robust Design Optimization of Concrete Frame Structure under Random Wind Load	Datta , G., and Bhattacharjya, S.	61st Congress of ISTAM,			2016	
Robust Design Optimization of Structures under Stochastic Earthquake incorporating Parameter Uncertainty	Bhattacharjya, S., and Chakraborty, S.	Asia pacific Symposium on Structural Reliability and Application (APSSRA 2016)			2016	
Reliability Analysis of Slopes in Soils with Strain-Softening Behaviour	Metya, S., Dey, S., Bhattacharya, G. and Chowdhury, R.	Proc. of the Indian Geotechnical Conference (Springer)	LNCE, volume 13		2018	293-301
A Comparison of LEM and RFEM Based Slope Reliability Considering Spatial Variability	Metya, S. and Bhattacharya, G.	Indian Geotechnical Conference			2018	
Multivariate Adaptive Regression Splines for System Reliability Analysis of Slopes	Metya, S., Bhattacharya, G., Mukhopadhyay, T. and Adhikari, S.	Proc. of the Indian Geotechnical Conference			2017	
Numerical Analysis of Variation of Cross Sectional Shape of Cross Plan Shaped Building under Wind Load	Kumar D., Dalui, S. K.	Int. Conference on Advances in Construction Materials and Structures (ACMS-2018), IIT Roorkee, Uttarakhand.	--		2018	

Title	Authors	Publication			Year	Pages
Wind Effects on 'L' Plan Shaped Tall Building: A Case Study	Paul, R., Dalui, S. K.	Int. Conference on Advances in Construction Materials and Structures (ACMS-2018), IIT Roorkee, Uttarakhand	--		2018	7
Assessment of Safety Performance on Two-Lane Roads under Mixed Traffic: A Review of Recent Research and Future Research Needs	Basu, S., Roy, N., Saha, P.	97th Annual Meeting of the Transportation Research Board (TRB), Transportation Research Board of the National Academics, Washington, D.C.,	--		2018	14
Optimization of Mixed Plastic in VG-30 Paving Bitumen by TOPSIS Based Taguchi Method	Karmakar, S., Roy, T. K., Saha, P.	International Conference on Advances in Concrete, Structural & Geotechnical Engineering			2018	
Efficient Robust Design Optimization of Steel Industrial Building under Stochastic Extreme Wind Load.	Datta, G., Bhattacharjya, S., Chakraborty, S.	Advances in Concrete, Structural, & Geotechnical Engineering (ACSGE)			2018	665-669
Effect of infills on seismic fragility of reinforced concrete framed building	Ghosh, S., Chakraborty, S.	2nd Int. Conf. on Advances in Concrete, Structural & Geotechnical Engg, (ACSGE 2018)			2018	
Effect of Grannular Layer Strength and Thickness on Jute Geotextiles Reinforced Rural Road	Patra, S., Bera, A.K.	International symposium on Geotechnics of Transportation Infrastructure (ISGT)	-		2018	
Studies on Spatial Dispersion Patterns of Dredged Materials in Hooghly Estuary using Radiotracer Experiment and Morphological Analysis	Bhar, K. K., Pant, H. J., Chaudhury, B., Paul, M., Kangsabanik, S.	Advanced Applications of Radiation Technology (NICSTAR-2018), Organized by International Atomic Energy Agency (IAEA), Vienna, Austria, Department of Atomic Energy, GOI and NAARRI, Mumbai, India			2018	658-663
Bathymetric and Numerical Studies on Morphological Characteristics of Hooghly Estuary	Bhar, K. K., Paul, M., Kangsabanik, S.	International Conference on Sustainable Technologies for Intelligent Water Management (STIWM-2018), IIT Roorkee, India			2018	
An Efficient Metamodelling based Robust Design Optimization of Structure under Stochastic Extreme Wind Load",	Datta, G.	Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2017)			2017	

Title	Authors	Venue			Year	
Efficient Optimum Mix Design Procedure for Rice Husk Ash Concrete considering Robustness and Parameter Uncertainty in Metamodelling Framework	Moulick, K.K., Ghosh, S.K.	International Conference on Structural Safety and Reliability (ICOSSAR 2017)			2017	
Removal of turbidity and E. Coli from surface water by electrocoagulation and study of its economic feasibility	Ray, S.K., Majumder, C., Saha, P.	Sustainable advanced technologies for environmental management (ISBN: 978-93-86256-94-2)	1		2017	
Combined effect of vehicle and thermal load on FRP bridge deck	Sit, M., Ray, C.	ICSECM, Srilanka			2017	19
Radiotracer Study to Investigate the Spatial Dispersion Pattern of Dredged Materials in Hooghly Estuary, West Bengal, India	Bhar, K. K., Pant, H. J., Chaudhury, B., Chakraborty, K., Sharma, V. K.	International Conference on Applications of Radiation Science and Technology (ICARST - 2017), Organized by International Atomic Energy Agency (IAEA), Vienna, Austria			2017	60
A modified higher order zigzag theory for stress analysis of composite laminates	Biswas, D., Ray, C.	ICTACEM, IIT Kharagpur			2017	
Comparative study of biocomposite and synthetic FRP composite with experimental verification	Sit, M., Ray, C.	ICTACEM, IIT Kharagpur			2017	20
Free vibration analysis of laminated composite plates and shells subjected to concentrated mass at the centre	Mondal, A., Ray,C., Halder, S.	ICTACEM, IIT Kharagpur			2017	21
Shear strength behaviour and regression analysis of cement stabilized river bed material for use in subgrade.	Das, C., Ghosh, A.	IGC 2017 – GeoNEstGeotechnics for Natural and Engineered Sustainable Technologies, IIT Guwahati, Dec 13-17.			2017	24
Assessment of Ground Vibration due to Installation of Pile Casing-A Case Study	Dey, R., Vinoth B., Ghosh, A.	IGC 2017 – GeoNEstGeotechnics for Natural and Engineered Sustainable Technologies, IIT Guwahati, Dec 13-17.			2017	
Wind Fragility Assessment of RC Chimney Considering Temperature Effects	Sahoo, A., Ghosh, S.K.	Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2017),			2017	
Fatigue Life Assessment of an Existing Railway Bridge in India Incorporating Uncertainty	Chanda, M., Mishra, K.C.	Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2017)			2017	

A three dimensional finite element model for simulating response of sand-JGT-sand Reinforced Rural Road	Patra, S., Bera, A.K.	Indian Geotechnical Conference, Guwahati	-		2017	
Capacity and Dynamic Passenger Car Unit Estimation for Heterogeneous Traffic Stream of Urban Arterials: A Case Study of Indian Metropolis	Mondal, S., Chakraborty, S., Roy, S.K., Gupta, A.	96th Annual Meeting of Transportation Research Board (TRB, 2017)" Washington D.C.,	Paper No 17-00273		2017	1-4 (In CD)
Microbial Concrete as a sustainable option for infrastructural development in emerging economies	Mondal, S., Ghosh, A. D.	ASCE India conference 2017 - Urbanization Challenges in Emerging Economies			2017	
Estimation of supplemental damping by a compliant liquid column damper for seismic vibration control of structures	Bhattacharyya, S., Ghosh, A. D. and Basu, B	13th International Conference on Vibration Problem (29th November – 2nd December)	Paper No. 355		2017	
Vibration control of seismically excited adjacent buildings prone to pounding by use of friction dampers	Dutta, N. K. and Ghosh, A. D.	13th International Conference on Vibration Problem (29th November – 2nd December)	Paper No. 356.		2017	
Analysis of Agricultural Drought Severity using MODIS Satellite Images	Das,P., Palchaudhuri, M., Biswas S., Deka, P.C.	International Conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, ICGCSC, Mangalore Institute of Technology \& Engineering			2017	
Development of a Simplified Mathematical Model for Anaerobic Digestion	Loganath, R. and Mazumder, D.	7th International Conference on Solid Waste Management (IconSWM-2017)	7		2017	277-282
Characterization of the River Bed Materials for Use in Construction of Road Embankment in NE India Region	Das, C., Ghosh, A.	Proceedings of the National Seminar on Geotechnics for Infrastructure Development", Indian Geotechnical Society, Kolkata, 11th and 12th March, 2016, Jadavpur, Kolkata, India.			2016	889-894
Strength characterization of Sub grade soil stabilized with Crusher dust	Das, C., Ghosh, A.	Proceedings of the National Level Conference on Engineering Problems and Application of Mathematics, NIT, Agartala, India			2016	
Performance evaluation of Stabilized Brahmaputra river bed materials.	Dey, R., Das, C., Ghosh, A.	Research Scholars Colloquium 2016, IIEST, Shibpur, ISBN: 978-93-80813-44-8.			2016	

Construction Induced Vibration During Sheet Pile Driving	Ghosh, A., Chakraborty, S.	Indian Geotechnical Society, Kolkata Chapter Geotechnics For Infrastructure Development 11th – 12th March 2016, Kolkata, West Bengal, India			2016	71-72
Experimental Investigation on Behaviour of Pile-Raft Foundation	Dey, R., Ghosh, A.	Indian Geotechnical Society, Kolkata Chapter Geotechnics For Infrastructure Development 11th – 12th March 2016, Kolkata.			2016	
Ground Response and Liquefaction Analysis	Mitra, T., Ghosh, A.	Indian Geotechnical Society, Kolkata Chapter Geotechnics For Infrastructure Development 11th – 12th March 2016, Kolkata.			2016	
Impact Of Water Level Fluctuation on River Bank Stability	Khatun, S., Ghosh, A., Sen, D.	Indian Geotechnical Society, Kolkata Chapter Geotechnics for Infrastructure Development 11th – 12th March 2016, Kolkata.			2016	
Influence of Non-Homogeneous Moisture Content on Strength Reduction and Stability of River Bank	Khatun, S., Ghosh, A., Sen, D.	19th Southeast Asian Geotechnical Conference & 2nd AGSSEA Conference (19SEAGC & 2AGSSEA) Kuala Lumpur 31 May – 3 June 2016.			2016	
Study on the Behaviour of Pile-Raft Foundation in Cohesive Soil	Ghosh, A., Dey, R.	19th Southeast Asian Geotechnical Conference & 2nd AGSSEA Conference (19SEAGC & 2AGSSEA) Kuala Lumpur 31 May – 3 June 2016.			2016	
Construction Induced Vibration During Sheet Pile and Pile Driving in Deep Excavation	Ghosh, A., Chakraborty, S.	6th Conference on Deep Foundation Technologies for Infrastructure Development in India, September 8-10, 2016, IIEST Shibpur, India.			2016	
Site Specific Study for Foundation Design of Iswar Gupta Bridge	Nath, S., Ghatak, C., Ghosh, A., Mitra, T., Sengupta, T., Das, S.	6th Conference on Deep Foundation Technologies for Infrastructure Development in India, September 8-10, 2016, IIEST Shibpur, India.			2016	

Dynamic Response of Short Piles under Lateral Transient Load	Chowdhury, I., Dey, R., Ghosh, A.	6th Conference on Deep Foundation Technologies for Infrastructure Development in India, September 8-10, 2016, IIEST Shibpur, India.			2016	
A critical review of regression models for analysing highway crash data	Basu, S., Saha, P.	12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, (TPMDC) in IIT Bombay.			2016	
Evaluation of pedestrian Speeds on Sidewalks: A Comparative Study at the Commercial Hubs in the Twin Cities of Kolkata and Howrah	Mukherjee D., Das, S., Saha, P., Roy, S.K.	12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, (TPMDC) in IIT Bombay.			2016	
Analysis of Time Headways under Heavy Traffic Flow Conditions on Two-lane Roads: Case Study from North-East India	Roy, R., Roy, N., Saha, P., Sarkar, A. K.	12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries, (TPMDC) in IIT Bombay.			2016	
Modelling of vehicular speeds on Two-Lane Roads under Heavy Traffic Flow Condition	Roy, N., Roy, R., Saha, P., Sarkar, A. K.	National Conf. on Engineering problems and Application of Mathematics (EPAM-2016), NIT Agartala			2016	
Walking speeds on Sidewalks: A comparison of Recreational and Residedential Zones in Kolkata	Mukherjee, D., Das, S., Saha, P.	National Conf. on Engineering problems and Application of Mathematics (EPAM-2016), NIT Agartala			2016	
Analysis of pedestrian Movement at Intersection: A case study in Kolkata Metropoils	De, D., Ray, S., Saha, P.	National Conf. on Engineering problems and Application of Mathematics (EPAM-2016), NIT Agartala			2016	
Robust Optimal Design of Buried Reinforced Concrete Pipe in Trenchless Construction under Bounded Type Uncertainty considering Seismic Load	Mukherjee, S., Shaw, P.K., Datta, G., Ghosh, S.	Structural Engineering Convention SEC 2016,			2016	
Adaptive Metamodel Based Efficient Robust Design Optimization of Offshore Structure Under Stochastic Wave Loading,	Datta, G., Chakraborty, S.	Structural Engineering Convention SEC 2016,			2016	

Adaptive Metamodel Based Efficient Robust Design Optimization of Concrete Frame Structure under Random Wind Load	Datta, G.	61st Congress of ISTAM,			2016	
Robust Design Optimization of Structures under Stochastic Earthquake incorporating Parameter Uncertainty,	Chakraborty, S.	Asia pacific Symposium on Structural Reliability and Application (APSSRA 2016)			2016	
The Effects of Position of Limbs on a Rectangular Plan Shaped Tall Building under Wind	Dalui, S. K., Paul, R.	ACEM16, Jeju, Korea	ISBN 978-89-89693-44-4		2016	43
Effect of Tyre Rubber Ash on Bituminous Mixes Used for Roadway Pavement	Roy, T.K.	The Eighth international conference on environmental science and technology, Houston, Texas, USA	ID-670		2016	
Performance Evaluation of Polypropylene Waste Modified Bitumen in Bituminous Mix by Ultrasonic Pulse velocity Method	Karmakar, S., Majhi, D., Roy, T.K.	International Conference on Recent Trends in Engineering and Material Science, ICEMS", Jaipur, India	ID- 1-IC-1653		2016	
Hygrothermal free vibration analysis of FRP bridge deck using higher order shear deformation theory	Sit, M., Ray, C.	Structural Engineering Convention, SERC (CSIR) Chennai			2016	1820
Experimental verification of free vibration analysis of laminated stiffened plate considering HSDT and FSDT	Biswas, D., Sit, M., Ray, C.	Structural Engineering Convention, SERC (CSIR) Chennai			2016	1814
A finite element model based sensitivity analysis of deep and moderately thick cross ply laminated shell structure	Thakur, S.N., Ray, C., Chakraborty, S.	Structural Engineering Convention, SERC (CSIR) Chennai			2016	1826
A model development on electrocoagulation by design of experiment for drinking water	Ray, S.K., Majumder, C., Saha, P.	Proceedings of Research Scholar Colloquium (ISBN: 978-93-80813-44-8)	1		2016	111
Field and Numerical Investigation on Time Dependent Behehaviour of Jute Geotextile (JGT) Reinforced Rural Road	Patra, S., Bera, A.K.	IGC ,Channai			2016	1-4 (InCD)
Influenced of Granulated Blast Furnace Slag contents on CBR value of Clay GBFS Mixtures	Bera, A.K., Patra, S., Das, A.	IGC ,Channai	-		2016	1-4 (InCD)
Generation of Seismic Hazard Curve and Synthetic Ground Motion for the North Eastern Region of India for Performance Based Seismic Risk Assessment	Ghosh, S., Ghosh, S., Chakraborty, S.	The 6th Asia-Pacific Symp on Structural Reliability and Its Applications, Shanghai, China	-		2016	
Robust Design Optimization of Structures under Stochastic Earthquake incorporating Parameter Uncertainty	Bhattacharjya, S.,Chakraborty, S.	The 6th Asia-Pacific Symposium on Structural Reliability and Its Applications, Shanghai, China			2016	

Metamodelling Based Monte Carlo Simulation for Efficient Seismic Reliability Analysis of Structures	Ghosh, S., Manna, R., Chakraborty, S.	3rd National Conf. on Reliability & Safety Engineering (NCRS-2016), Dept. of Mathematics, Keynote Lectures Chennai.			2016
Improved Super-elastic Isolation System using a Ferrous based Shape Memory Alloy (FNCATB)	Chakraborty, S., Mishra, S.K.	Structural Engineering Convention 2016, CSIR-SERC, Chennai.			2016
Analytical Seismic Fragility Analysis of Existing Building Frame in the NorthEast India	Mukherjee, S., Ghosh, S., Ghosh, S., Chakraborty, S.				2016
Identification of stiffness and damping parameters at element level for Structural Health Monitoring utilizing time domain dynamic response data	Debnath, A., Chakraborty, S.	31st Indian Engineering Congress, The Institute of Engineers (India), Kolkata.			2016
An Efficient Response surface method based Finite Element Model Updating of Composite Structures	Islam, S., Chakraborty, S., Ray, C.	31st Indian Engineering Congress, The Institute of Engineers (India), Kolkata.			2016
n-z and sma-assisted bearings for structural control against underground blast induced ground motion	Mondal, P.D., Dey, A.G., Chakraborty, S.	31st Indian Engineering Congress, The Institute of Engineers (India), Kolkata.			2016
Seismic fragility analysis of a multi-span simply supported bridge pier located in northeast India	Ghosh, S., Chakraborty, S.	ISSS 2016, IIT Kanpur			2016
Lane Density as Measure of Effectiveness of Multi lane Interurban Highways under Heterogeneous Traffic Conditions	Chatterjee, S., Roy, D., Chakraborty, S., Roy, S.K.	CEC – 2016, NIT Hamirpur, Hamirpur(HP).			2016
Mode Choice Modelling of Work Trips: A Case Study of Kolkata	Chanda, R., Sen, S., Roy, S.K.	Fourth International Conference on Advances in Civil, Structural and Environmental Engineering - ACSEE 2016. Rome, Italy			2016
An Investigation of Lane Flow Distribution on Multi-Lane Highways under Mixed Traffic Condition	Chatterjee, S., Roy, D., Chakraborty, S., Arun, A., Roy, S.K.	Fourth International Conference on Advances in Civil, Structural and Environmental Engineering - ACSEE 2016. Rome, Italy			2016
Congestion Indicators: A Measure of Traffic Congestion for Six Lane Urban Arterials of Kolkata	Roychowdhury, R., Roy, D., Chakraborty, S., Roy, S.K.	Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC, 2016), IIT Bombay			2016
Adsolubilization of Organic Dye through Surfactant Modified Silica Gel Waste from Aquatic Environment: Batch and Fixed Bed Studies	Koner, S., Adak, A.	4th International Conference on Advances in Civil, Structural and Environmental Engineering (ACSEE 2016)			2016

Complete degradation of the cationic surfactant by UV based advanced oxidation process	Mondal, B., Das, I., Adak, A., Datta, P.	Recycle – 2016			2016	
Degradation of 2,4-dichlorophenoxy acetic acid by advance oxidation process	Das, I., Mondal, B., Adak, A., Koner, S.	Recycle – 2016			2016	
Surfactant removal by metal oxides and adsolubilization of organics in exhausted materials	Koner, S., Adak, A., Pal, A.	8th International Conference on Environmental Science and Technology	1		2016	161-166
Comparative study on N-Z and SMA-assisted bearings for structural control against blast induced ground motion	Mondal, Papiya D., Ghosh, Aparna D. and Chakraborty, Subrata	ISSS National Conference on MEMS, Smart Materials, Structures and Systems (September 28-30)			2016	
Response mitigation of transmission tower subjected to tornado loads by fluid viscous dampers	Sah, Sonam and Ghosh, Aparna (Dey)	The Eighth National Conference on Wind Engineering (December 16-17)			2016	
Cyclone wind response mitigation of transmission towers by SMA dampers	Roy, Madhusree and Ghosh, Aparna (Dey)	Structural Engineering Convention (SEC 2016)			2016	
Performance of compliant liquid column damper for seismically excited structures	Bhattacharyya, S., Ghosh, A(D.)	Structural Engineering Convention (SEC 2016)			2016	
Mitigation of structural pounding by the tuned mass damper	Das, M., Ghosh, A. (D.)	Structural Engineering Convention (SEC 2016)			2016	
Enzymatic Application in Anaerobic Digestion (AD) of Organic Fraction of the Municipal Solid Waste (OFMSW)	Goswami, S., Chatterjee, B. and Mazumder, D.	International Conference on Waste Management (RECYCLE-2016)			2016	57 - 57
Mathematical Modeling of the Upflow Anaerobic Sludge Blanket Reactor System (UASB)	Loganath, R. and Mazumder, D.	International Conference on Waste Management (RECYCLE-2016)	-		2016	118-119
Management of Solid wastes in Steel Industry towards Reuse and Recycling	Sarkar, S. and Mazumder, D.	6th International Conference on Solid Waste Management (IconSWM-2016)	6		2016	782-788
Modal self-excitation by nonlinear acceleration feedback in a class of mechanical systems	Anindya Malas and S. Chatterjee	Journal of Sound and Vibration	376			1 to 17
Amplitude controlled adaptive feedback resonance in a single degree-of-freedom mass-spring mechanical systems	Anindya Malas and S. Chatterjee	Procedia Engineering	144		2016	697-704
Tangential acceleration feedback control of friction induced vibration	Jayasi Nath and S. Chatterjee	Journal of Sound and Vibration	377		2016	22-37
Model self-excitation in a class of mechanical systems by displacement feedback	Anindya Malas and S. Chatterjee	Journal of Sound and Vibration	377		2016	1 to 13

Title	Authors	Journal	Vol	Issue	Year	Pages
Effects of Hemodynamic Parameters and involved Processes on Mass Transport through Arterial Wall for Localization and Progression of the Disease, Atherosclerosis: *A Review*	S. Santra, D.K. Mandal and S. Chakrabarti	International Journal of Transport Phenomena	14		2016	183-203
Laminar Modeling and Numerical Simulation on Ferromagnetic Fluid Flow in a Channel	S. Saha and S. Chakrabarti	International Journal of Fluid Mechanics Research	6		2016	79-92
Pressure Characteristics Study for the Configuration of Sudden Expansion with Central Restriction and Suction	T. Das and S. Chakrabarti	Open Journal of Fluid Mechanics	43	1	2016	30-41
Comparison of Flow Characteristics of Single Step Contraction Nozzles and Double Step Contraction Nozzles for Cutting Fluid Delivery System	S. K. Jha, A. Guha and S. Chakrabarti	International Journal of Advances in Production and Mechanical Engineering	2	2	2016	13-Jul
Analysis of Wall Shear Parameters of Physiological Pulsating Flow through Mild and Severe Arterial Stenosis and Correlation to Atherosclerosis	P. Goswami, D. K. Mandal, N. K. Manna and S. Chakrabarti	International Journal of Science and Technology	2	3	2016	40-54
Assessment of Accumulation Rate of LDL Species in Arterial Wall Layers under Hypertension and Hyperlipidemia Conditions	S. Santra, D.K. Mandal and S. Chakrabarti	International Journal of Fluid Mechanics Research	44	1	2016	79-92
Optimization of wire electrical discharge machining parameters for cutting electrically conductive boron carbide	A.Pramanick, S.Sarkar, P.P.Dey and P.K.Das	Ceramics International	42		2016	*15671–15678*
Multi-objective Optimization in WEDM process of Nanostructured Hardfacing Materials through Hybrid techniques	A.Saha and S.C.Mondal	Measurement	94		2016	
Multi-objective Optimization of Welding Parameters in MMAW for Nano-structured Hardfacing Material using GRA coupled with PCA'	A.Saha and S.C.Mondal	Transactions of the Indian Institute of Metals	70	6	2016	1491-1502
Numerical investigation of the performance and emission parameters of a diesel engine fuelled with diesel - biodiesel - methanol blends	Ambarish Datta and Bijan Kumar Mandal	Journal of Mechanical Science and Technology	30	4	2016	1923-1929
A comprehensive review of biodiesel as an alternative fuel for compression ignition engine	Ambarish Datta and Bijan Kumar Mandal	Renewable and Sustainable Energy Reviews	57		2016	799-821
Impact of alcohol addition to diesel on the performance combustion and emissions of a compression ignition engine	Ambarish Datta and Bijan Kumar Mandal	Applied Thermal Engineering	98		2016	670-682

Performance evaluation of alternative refrigerants	Madhu Sruthi Emani, Ranendra Roy and Bijan Kumar Mandal	International Journal of Advance Research in Science and Engineering	5	8	2016	232-241
Numerical Modeling and Simulation of a Double Tube Heat Exchanger Adopting a Black Box Approach	Agniprobho Mazumder and Bijan Kumar Mandal	Int. Journal of Engineering Research and Applications	4		2016	35-41
A thermo-economic analysis of repowering of a 250 MW coal fired power plant through integration of Molten Carbonate Fuel Cell with carbon capture	S. Samanta, S. Ghosh	International Journal of Greenhouse Gas Control	51		2016	48-55
Externally Fired Biomass Gasification based Combined Cycle Plant: Exergo-economic Analysis	P.Mondal and S.Ghosh	Int. J. of Exergy	20	4	2016	496-516
Growth and export status of Indian floriculture: *A review*	D. Misra & S. Ghosh	Agri. Review	37	1	2016	77-80
Solar tower combined cycle plant with thermal storage: energy and exergy analyses	S. Mukhopadhyay & S. Ghosh	Advances in Energy Research	4	1	2016	29-45
Study the performance of a fogging system for a naturally ventilated fog-cooled greenhouse	A. S. Mirja, D. Misra & S Ghosh	Journal of Energy Research and Environmental Technology	3	1	2016	19-23
Solar thermal-photovoltaic powered potato cold storage-conceptual design and performance analysis	Dipankar N Basu and A.Ganguly	Applied Energy	165	1	2016	308-317
Thermal model development and performance analysis of a solar photovoltaic supported greenhouse dryer	R.K.De and A.Ganguly	International Journal of Renewable Energy Technology	7	4	2016	361-382
Analysis of solar photovoltaic assisted absorption refrigeration system for domestic air-conditioning	A. Ganguly and D.N.Basu	International Journal of Green Energy	13	6	2016	585-594
FEA Based simulation of ultrasonic wave propagation in isotropic and orthotropic Media	Debasis Datta	Proceedings of the 19th World Conference on NDT (19th WCNDT), at Munich,Germany			2016	
Numerical investigation on the effects of EGR on CI engine characteristics using soyabean biodiesel	Datta, A., & Mandal, B. K	AIP Conference Proceedings	1754	1	2016	50006
Effect of compression ratio on the performance, combustion and emission from a diesel engine using palm biodiesel	Datta, A., & Mandal, B. K	AIP Conference Proceedings	1754	1	2016	50005
A computational study of radiation and gravity effect on temperature and soot formation in a methane air co-flow diffusion flame	Bhowal, A. J., & Mandal, B. K	AIP Conference Proceedings	1754	1	2016	50003

Simulated Performance of A Biomass Gasification Based Combined Power and Refrigeration Plant for Community Scale Application	Chattopadhyay S., Mondal P., Ghosh S	AIP Conference Proceedings	1754	1	2016	50008
Performance Analysis of a Biomass-gasification based Indirectly-Heated Combined Cycle employing Humid Air Turbine	Mukherjee S., Mondal P., Ghosh S	AIP Conference Proceedings	1754	1	2016	50009
Economic impact of repowering of an existing coal fired power plant through pressurized pulverized coal combustion and waste heat recovery	S. Samanta, S. Ghosh	International Conference on Recent Trends in Engineering and Material Science. (ICEMS 2016)			2016	
Wire EDM Process Parameters Optimization of B4C Ceramic using Response Surface Methodology and Fuzzy Logic	A. Pramanick, S. Mandal, P.P. Dey, S. Sarkar,P.K. Das	International & 27th All India Manufacturing Technology, Design and Research Conference			2016	
Process Parameter Optimization of Wire-EDM on UHTC Material using Desirability Approach	S. Mandal, A. Pramanick, A.R. Mallick, S. Chakraborty,P.P. Dey	International & 27th All India Manufacturing Technology, Design and Research Conference			2016	
On the steady-state performance characteristics of finite herringbone grooved journal bearing lubricated with couple stress fluids. Journal of material science and mechanical engineering	AK Dinda and SK Guha	Journal of material science and mechanical engineering(JMSME)	3	2	2016	
Linear stability analysis of finite hydrodynamic journal bearing under turbulent lubrication with coupled-stress fluid	A Ghosh, SK Guha	Industrial Lubrication and Tribology	68	3	2016	386-399
Turbulent effect on the dynamic response coefficients of finite journal bearings lubricated with micro polar fluid	S Das, SK Guha	Procedia technology, Elsevier Ltd	23		2016	193-200

)

ز

l

8-0127-7