

LIST OF PUBLICATIONS

DEPARTMENT		TOTAL
INFORMATION TECHNOLOGY	JOURNALS = 74 CONFERENCES = 212	286
CEGESS	JOURNALS =28 CONFERENCE=36 PATENT=1	65
COMPUTER SCIENCE AND TECHNOLOGY	PUBLICATIONS=163	163
CHEMISTRY	PUBLICATIONS=217 BOOK CHAPTER=2	219
CIVIL ENGINEERING	JOURNAL PUBLICATIONS=116 CONFERENCE=98 BOOK CHAPTER=4	218
MINING ENGINEERING	JOURNAL=15 SEMINARS=6	21
PHYSICS	JOURNALS=72 CONFERENCE=68 PATENT=1	141
ELECTRONICS & TELECOMM. ENGINEERING	JOURNALS=107 CONFERENCE=36 PATENTS=5	148
AEROSPACE ENGINEERING AND APPLIED MECHANICS	JOURNALS=137 CONFERENCES=116	253
SCHOOL OF VLSI	PUBLICATIONS=28 CONFERENCE=39 BOOKS=3 PATENTS=2	72

ARCHITECTURE, TOWN AND REGIONAL PLANNING	JOURNALS=52 CONFERENCE=68 BOOKS=12 TECHNICAL REPORTS=19 PATENTS=2	153
SCHOOL OF MECHATRONICS & ROBOTICS	JOURNALS=7 CONFERENCES=33 PATENT=2 BOOK CHAPTER=6	48
Electrical Engineering	Publications=52 Conference= 120 Books = 2 Patents= 3	177
TOTAL =1964		

INFORMATION TECHNOLOGY

List of Publications

Journal Papers/Edited Volumes

2015-16

1. Arighna Deb, Debesh K. Das, Hafizur Rahaman, Robert Wille, Rolf Drechsler, Bhargab B. Bhattacharya, Reversible Synthesis of Symmetric Functions with a Simple Regular Structure and Easy Testability", ACM Journal on Emerging Technologies in Computing Systems (JETC) 2016 (Accepted). [Impact Factor= 0.729, Citations= 0]
2. Pranab Roy, Swati Saha, and Hafizur Rahaman, "Novel Wire Planning Schemes for Pin Minimization in Digital Microfluidic Biochips", IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016. (Accepted), [Impact Factor= 1.356, Citations= 0]
3. Sandip Bhattacharya, Debaprasad Das and Hafizur Rahaman, "Reduced Thickness Interconnect Model using GNR to Avoid Crosstalk Effects", Journal of Computational Electronics (JCEL) 2016, Springer Publication, DOI: 10.1007/s10825-016-0794-5, [Impact Factor= 1.520, Citations= 0]
4. Soumyajit Poddar, Prasun Ghosal, and Hafizur Rahaman, "Design of a High Performance CDMA Based Broadcast Free Photonic Multi Core Network on Chip", ACM Transactions on Embedded Computing Systems, Volume 15, Issue 1, January 2016, Article No.(2), DOI:- 10.1145/2839301, [Impact Factor= 0.471, Citations= 0]
5. Debaprasad Das and Hafizur Rahaman, "Investigating the Applicability of Graphene Nanoribbon as Signal and Power Interconnects for Nanometer Designs", Journal of Circuits, Systems, and Computers (JCSC), World Scientific, Vol. 25, No. 2 (2016), pp-1-14, DOI: 10.1142/S0218126616500018, [Impact Factor= 0.25, Citations= 0]
6. Kamalika Datta, Indranil Sengupta, and Hafizur Rahaman, "A Post-Synthesis Optimization Technique for Reversible Circuits Exploiting Negative Control Lines", IEEE Transactions on Computers 2015, vol. 64(4), pp.1208-1214, DOI: 10.1109/TC.2014.2315641, [Impact Factor= 1.659, Citations=2].
7. Surajit Roy, Chandan Giri, and Hafizur Rahaman, "Optimization of Test Architecture in 3D Stacked ICs for Partial Stack/Complete Stack using Hard SOCs", IEE Computers and Digital Techniques 2015, vol.9(5), pp. 268-274 (2015), [Impact Factor= 0.356, Citations= 0]
8. Santi P. Maity and Sumanta Hati, On Optimization of CI/MC-CDMA System through Channel Estimation, Wireless Personal Communications Journal, Springer Verlag vo. 85, n.o. 4, 2333-2354 (2015) (IF:0.653). (Citation:0)
9. Subhankar Chatterjee, Santi P. Maity and Tamaghna Acharya, "On Optimal Threshold Selection in Cooperative Spectrum Sensing for Cognitive Radio Networks- an Energy Detection Approach using Fuzzy Entropy Maximization", Special Issue in Journal of Wireless Personal Communication, Springer 84(3): 1605-1625 (2015) (IF:0.653). (Citation: 1)

10. Tamaghna Acharya, Santi P. Maity and Swagata Mandal, "Outage Minimized Joint Power and Channel Allocation in Multihop Cognitive Radio Networks: A Lifetime-Centric Approach" *Journal of Wireless Personal Communication*, Springer, 83(4): 2519-2537 (2015) (IF:0.653). (Citation:0)
11. Santi P. Maity and Hirak Maity, On Adaptive Distortion Control in Reversible Watermarking using Modified Reversible Contrast Mapping, *Multimedia Tools and Applications*, Springer, DOI 10.1007/s1-1042 015-2710-6 (IF:1.346) (Citation:0)
12. Sudip Ghosh, Arijit Biswas, Santi P. Maity, and Hafizur Rahaman, FPGA and SoC Based Implementation of DFWHT Domain Image Watermarking Architecture for Real-Time Applications, *Journal of Low Power Electronics*, American Scientific Publisher, Vol. 11, No. 3, pp. 375-386 September, 2015 (IF:0.526) (Citation:0)
13. Sudeshna Sil Kar and Santi P. Maity, Retinal Blood Vessel Extraction and Optic Disc Removal using Curvelet Transform and Morphological Operation, *Advances in Intelligent Systems, Computing*, Vol. 390, Richa Singh et al. (Eds): *Machine Intelligence and Signal Processing*, 978-81-322-2624-6, 334847_1_En, (14)
14. N. Karmakar, A. Biswas, and P. Bhowmick. Reeb Graph based Segmentation of Articulated Components of 3D Digital Objects. *Theoretical Computer Science*, 624: 25-40, 2015, DOI: , (Impact Factor: 0.657) [Citations: 0]
15. Bera, S., A. Biswas, and B. B. Bhattacharya. A Fast and Automated Granulometric Image Analysis Based on Digital Geometry. *Fundamenta Informaticae*, 138, 321-338, 2015, DOI: 10.3233/FI-2015-1214 (Impact Factor: 0.717) [Citations : 0]
16. Indrajit Pan and Tuhina Samanta, An Advanced Strategy for Droplet Routing in Digital Microfluidic Biochip using Ant Colony Optimization, "Handbook of Research on Swarm Intelligence in Engineering." Publisher Name: IGI Global, Pennsylvania 17033-1240, USA, 2015.
17. Subhamita Mukherjee, Tuhina Samanta, "Distributed Scan Like Fault Detection and Test Optimization for Digital Microfluidic Biochips", *Journal of Electronic Testing: Theory and Applications* (Springer Verlag), Volume 31(3), June 2015, pages: 311 - 319. (Citation 1) IF 0.519
18. Prasun Ghosal, Subha Koley, "Hardware / Software Realization of IoT Architectures: Prospects and Challenges", in *Handbook of Research on Advanced Wireless Sensor Network Applications, Protocols, and Architectures*, Editors - Niranjan Ray and Ashok Kumar Turuk, IGI-Global [Accepted, Manuscript under preparation, 2015 (to be published)].
19. Prasun Ghosal, Tuhin Subhra Das, Soumyajit Poddar, Munshi Mostafijur Rahaman, Avik Bose, "3D NoC: A Promising Alternative for Tomorrow's Nanosystem Design", in *Nano-CMOS and Post-CMOS Electronics: Circuits and Design*, Edited by S. P. Mohanty and A. Srivastava, The Institute of Engineering and Technology (IET), 2016, ISBN: XXX.
20. Prasun Ghosal, Mayukh Sarkar, Pratima Chatterjee, "A New Paradigm towards Performance Centric Computation beyond CMOS: DNA Computing", in *Nano-CMOS and Post-CMOS Electronics: Circuits and Design*, Edited by S. P. Mohanty and A. Srivastava, The Institute of Engineering and Technology (IET), 2016, ISBN: XXX.
21. Debashri Roy, Prasun Ghosal, and Saraju Mohanty, "FuzzRoute: A Thermally Efficient Congestion Free Global Routing Method for Three Dimensional Integrated Circuits", *ACM Transactions on Design Automation of Electronic Systems (ACM TODAES)*, Volume 21 Issue 1, November 2015 I.F. 0.811.
22. Prasenjit Chanak, Indrajit Banerjee, "Fuzzy rule-based faulty node classification and management scheme for large scale wireless sensor networks", *Expert Systems with Applications*. DOI:10.1016/j.eswa.2015.09.040 (In Press)
23. Nimisha Ghosh, Indrajit Banerjee, "An Energy-Efficient Path Determination Strategy for Mobile Data Collectors in Wireless Sensor Network", *Computer and Electrical Engineering (CAEE)*, DOI: 10.1016/j.compeleceng.2015.09.004. (In Press).

24. Prasenjit Chanak, Indrajit Banerjee, and R. S. Sherratt, "Simultaneous Mobile Sink Allocation in Home Environments with Applications in Mobile Consumer Robotics," *IEEE Transaction on Consumer Electronics*, vol.61, no.2, pp 181-188, 2015. DOI: 10.1109/TCE.2015.7150572.
25. Prasenjit Chanak, Indrajit Banerjee, Hafizur Rahaman, "Load Management Policy for Energy Holes Reduction in Wireless Sensor Networks," *Journal of Computers & Electrical Engineering*. DOI:10.1016/j.compeleceng.2015.05.013. (In press).
26. Suman Bhowmik and Chandan Giri, "A Fuzzy Communication Model of Sensor Nodes in Wireless Sensor Network", in *Intl. Journal of Sensor Network, Inderscience*, 2015.
27. M. Bhattacharyya, J. Nath and S. Bandyopadhyay, "MicroRNA Signatures Highlight New Breast Cancer Subtypes," *Gene*, 556(2):192-198, 2015, DOI: 10.1016/j.gene.2014.11.053. (Impact Factor: 2.138) [Citations: 8]
28. M. Bhattacharyya and S. Bandyopadhyay, "Finding Quasi Core with Simulated Stacked Neural Networks," *Information Sciences*, 294:1-14, 2015, DOI: 10.1016/j.ins.2014.09.032. (Impact Factor: 4.038) [Citations: 0]

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29. Sudip Ghosh, Arijit Biswas, Santi Prasad Maity and Hafizur Rahaman, "FPGA and SoC Based Implementation of DFWHT Domain Image Watermarking Architecture for Real-Time Applications", *Journal of Low Power Electronics (JOLPE)*, American Scientific Publishers, Vol. 11 No. 3, pp.375-386, [Impact Factor= 0.526, Citations= 0]
30. Manodipan Sahoo, Prasun Ghosal and, Hafizur Rahaman, "Modeling and Analysis of Cross talk Induced Effects in Multiwalled Carbon Nanotube Bundle Interconnects: An ABCD Parameter Based Approach", *IEEE Transactions on Nanotechnology*, March 2015, Vol.14, Issue: 2 pp. 1-16, DOI: 10.1109/TNANO.2014.2388252, [Impact Factor= 1.825, Citations=0]
31. Debasis Mitra, Sarmishtha Ghoshal, Hafizur Rahaman, Krishnendu Chakrabarty, and Bhargab B. Bhattacharya, "Automated Washing Schemes for Residue Removal in Digital Microfluidic Biochips to Enhance Reliability", *ACM Transactions on Design Automation of Electronic Systems*, 21(1): 17 (2015). [Impact Factor= 0.686, Citations=0]
32. Manodipan Sahoo and Hafizur Rahaman, "Modeling of Crosstalk Induced Effects in Copper Based Nano-Interconnects: An ABCD Parameter Matrix Based Approach", *Journal of Circuits, Systems, and Computers*, Vol. 24, No. 2 (2015) 1540007, World Scientific Publishing Company, DOI: 10.1142/S0218126615400071, (With PhD Student). [Impact Factor= 0.25, Citations=2]
33. Prasenjit Chanak, Indrajit Banerjee and Hafizur Rahaman, "Load management scheme for energy holes reduction in wireless sensor networks", *Journal of Computers & Electrical Engineering* (Elsevier), 48: 343-357 (2015). [Impact Factor= 0.817, Citations=0]
34. Subhankar Chatterjee, Santi P. Maity and Tamaghna Acharya, "Energy Efficient Cognitive Radio System for Joint Spectrum Sensing and Data Transmission", *Special Issue: Microwatts Wireless Technologies on IEEE Journal on Emerging and Selected Topics in Circuits and Systems* Vol. 4, No. 3, September 2014, pp. 292-300 (IF:1.524). (Citation:16)
35. Subhankar Chatterjee, Tamaghna Acharya, and Santi P. Maity, "On Optimized Decode and Forward Relay Assisted CR System Design for Throughput Maximization", *Journal of Digital Signal Processing*, Elsevier, Vol. 34, November 2014, pp. 92-100 (IF:1.256) (Citation: 1)

36. Hirak Maity and Santi P. Maity, FPGA Implementation of Reversible Watermarking in Digital Images using Reversible Contrast Mapping, *Journal of Systems and Software*, Elsevier Science, Vol. 96. October 2014, pp.93-104. (IF:1.352). (Citation: 2)
37. Santi P. Maity, Seba Maity, Jaya Sil and Claude Delpha "Perceptually adaptive MC-SS image watermarking using GA-NN Hybridization in Fading Gain", Special issue on *Journal Engineering Applications of Artificial Intelligence*, vol.31, pp.3-14, May, 2014. (IF:2.207) (Citation:3)
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39. Dutt, M., A. Biswas, P. Bhowmick, and B. B. Bhattacharya. On the Family of Shortest Isothetic Paths in a Digital Object: An Algorithm with Applications. *Computer Vision and Image Understanding*, 129, 75-88, 2014, DOI: 10.1006/cviu.1995.1002. (Impact Factor: 1.848) [Citations: 1]
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42. Sukanta Das, Enrico Formenti, Jarkko Kari: Non-uniform Cellular Automata. *Theor. Comput. Sci.* Vol. 559 pp. 1-2, year 2014 (IF 0.657) (citation 1)
43. Mayukh Sarkar, Prasun Ghosal, and Saraju Mohanty, "Minimum Reversible Circuit Synthesis on a DNA Computer", *Natural Computing*, Springer, [Accepted] - 2014 I.F. 0.757
44. Prasenjit Chanak, Indrajit Banerjee, J. Wang, and R. S. Sherratt, "Obstacle Avoidance Routing Scheme through Optimal Sink Movement for Home Monitoring and Mobile Robotic Consumer Devices," *IEEE Transaction on Consumer Electronics*, 2014, vol. 60 (4), pp. 596-606. DOI: 10.1109/TCE.2014.7027292.
45. Indrajit Banerjee, Prasenjit Chanak, Tuhina Samanta, Hafizur Rahaman "EFDR: Effective Fault Detection and Routing Scheme for Wireless Sensor Network", *Journal of Computers & Electrical Engineering*, vol. 40, no. 2, pp. pp. 291-306, 2014, DOI:10.1016/j.compeleceng.2013.04.027.
46. P. Chatterjee, M. Bhattacharyya, S. Bandyopadhyay and D. Roy, Studying the System-level Involvement of MicroRNAs in Parkinson's Disease, *PLoS ONE*, 9(4):e93751, 2014, DOI: 10.1371/journal.pone.0093751. (Impact Factor: 3.234) [Citations: 4]

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47. Kamalika Data, I. Sengupta, Hafizur Rahaman and Rolf Drechsler, "An Approach to Reversible Logic Synthesis using Input and Output Permutations", *Springer Transactions on Computation Science XXIV*, LNCS 8911, pp.1-8, 2014, (DOI:- 978-3-662-45710-8, 332808_1_En). [Impact Factor= NA, Citations=0]
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49. Manodipan Sahoo, Hafizur Rahaman and Bhargab B. Bhattacharya, "On the Suitability of Single-Walled Carbon Nanotube Bundle Interconnects for High-Speed and Power Efficient Applications", *Journal of Low Power Electronics*, American Scientific Publishers, Vol. 10, No 3, pp. 479-494, September 2014, (DOI: 10.1166/jolpe.2014.1339). [Impact Factor= 0.526, Citations=0]
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53. Indrajit Banerjee, Prasenjit Chanak, Hafizur Rahaman, Tuhina Samanta, 'Effective fault detection and routing scheme for wireless sensor networks', *Computers & Electrical Engineering (Elsevier)*, 40(2): 291-306 (2014) (With PhD Student). (DOI:10.1016/j.compeleceng.2013.04.027). [Impact Factor= 0.817, Citations=17]
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60. Tamaghna Acharya and Santi P. Maity, "Power Allocation in Cognitive Radio in Energy Constrained Wireless Ad Networks", *IGI-CRN Book Chapter*, *Cognitive Radio Technology Applications for Wireless and Mobile Ad Hoc Networks* Ed Natarajan Meghanathan & Yenumula B. Reddy, pp.248-270.
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62. Partha Pratim Saha, and Tuhina Samanta, "Obstacle Avoiding Delay Equalization for Rectilinear Clock Tree Routing based on a Game Theoretic Approach" International Journal of Engineering and Innovative Technology (IJEIT) Volume 3, Issue 4, October 2013, pages 341 – 349. ISSN: 2277-3754 ISO 9001:2008 Certified.
63. Indrajit Pan, and Tuhina Samanta, "A Droplet Clustering and Residue Removal Technique for Cross-contamination Avoidance in Digital Microfluidic Biochip", International Journal of Computer Information Systems and Industrial Management, ISSN 2150-7988, Volume 6 (5) pp.171 -183, 2013. (IF 1.4)
64. Tuhina Samanta, Indrajit Pan, Ritwik Mukherjee, Hafizur Rahaman, and Parthasarathi Dasgupta, "Optimization Algorithms for Digital Microfluidic Biochips: A Survey", in Elsevier journal of Computers & Electrical Engineering, Volume 39, Issue 1, January 2013, pages 112–121. (Citation 2) IF 0.817
65. Prasenjit Chanak, Tuhina Samanta, Indrajit Banerjee, "Fault-tolerant multipath routing scheme for energy efficient wireless sensor networks". International Journal of Wireless and Mobile Network, Volume 5(2), 2013, pages 33 – 45. (Citation 9)
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67. Indrajit Banerjee, Anirban Datta, Sonalisa Pal, Soujanya chatterjee, and Tuhina Samanta, "A Novel Fault Detection and Replacement Scheme in WSN, Advances in Intelligent Systems and Computing (ISI 13), Volume 235, pages: 303 – 310, Springer Cham Heidelberg, London.
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Conference Papers

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1. L. Biswal, C. Bandyopadhyay, R. Wille, R. Drechesler and H. Rahaman "Improving the Realization of Multiple-Control Toffoli Gates Using NCVW Quantum Gate Library", 29th IEEE/ACM International Conference on VLSI Design and 2016 & 15th International Conference on Embedded Systems (VLSID), pp. 573 – 574, DOI: 10.1109/VLSID.2016.23.
2. Malay Kule, Hafizur Rahaman and Bhargab B. Bhattacharya, "On Finding a Defect-Free Component in Nanoscale Crossbar Circuits", 4th ICECCS 2015 (Elsevier Procedia Computer Science 70 (2015) 421 – 427), pp.421-427.[Citations=0]
3. Anindita Chakraborty and Hafizur Rahaman, "Reconfigurable Crossbar Architectures for Memristor based Digital Gates", 6th IEEE International Conference on Computers and Devices for Communication (CODEC) 2015, December 16-18, pp.1-4. [Citations=0]
4. Surajit Kumar Roy, Payel Ghosh, Hafizur Rahaman, Chandan Giri, "A Thermal Estimation Model for 3D IC Using Liquid Cooled Microchannels and Thermal TSVs", IEEE VLSI-SOC 2015. [Citations=0]
5. Manodipan Sahoo and Hafizur Rahaman, "Modeling of Crosstalk Induced Overshoot/Undershoot Effects in Multilayer Graphene Nanoribbon Interconnects", IEEE 2nd International Conference on Electrical Information and Communication Technologies (EICT) 2015, (Accepted). [Citations=0]
6. Pranab Roy, Mriganka Chakrabarty, Aatreyi Bal, Hafizur Rahaman, Parthasarathi Dasgupta, "Decision-based Biochips: A Novel Design for Concurrent Execution of Networked Bioassays integrated in Scalable DMFBs", 6th IEEE Asia Symposium on Quality Electronic Design (ASQED) 2015, pp.138-143. [Citations=0]
7. T Kaibartta, C Giri, H Rahaman, DK Das, "Optimizing test time for core-based 3-D integrated circuits by genetic algorithm", 6th IEEE Asia Symposium on Quality Electronic Design (ASQED) 2015,pp. 62-67. [Citations=0]
8. S Ghosh, N Das, S Das, SP Maity, H Rahaman, "An adaptive feedback based reversible watermarking algorithm using difference expansion", IEEE 2nd International Conference on Recent Trends in Information Systems (ReTIS) 2015 . [Citations=0]
9. SK Roy, K Roy, C Giri, H Rahaman, "Recovery of faulty TSVs in 3D ICs", 16th International Symposium on Quality Electronic Design (ISQED) 2015, pp. 533-536. [Citations=0]
10. Joyati Mondal, Bappaditya Mondal, Dipak K. Kole, Hafizur Rahaman, Debesh K.Das, "Boolean Difference Technique for Detecting All Missing Gate Faults in Reversible Circuits", IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits & Systems,pp.95-98, DOI 10.1109/DDECS.2015.43. [Citations=0]
11. Santi P. Maity and Seba Maity, 'On Detection Improvement in MC-CDMA Image Watermarking on Fading Channel', 18th Int. Symposium on Wireless Personal Multimedia Communication (WPMC2015), 13-16th December, 2015, Hyderabad, India (Accepted).
12. Ankita Pramanik and Santi P. Maity, CS Reconstruction Images using LDPC code over Radio Mobile channel', 5th International Conference on Wireless Communications, Vehicular

- Technology, Information Theory and Aerospace & Electronic Systems (WVITAE), 13-16th December, 2015, Hyderabad, India (Accepted).
13. Ankita Pramanik and Santi P. Maity, CS Reconstruction in MIMO Channel using Square Complex Orthogonal STB Codes, 4TH International Conf. on Computing, Communication and Sensor Network (CCSN 2015), 24-25th December, 2015, Kolkata (Accepted).
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Summary**Total International Journal: 28****Total citation in journals: 121****Total International Conferences: 36****Total Patents: 1**

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CITATIONS

Year	Google Scholar	SCOPUS	WOS
2015	36	-	-
2014	111	-	-
2013	149	-	-

Chemistry

➤ List of Publications for the Year 2015

- 1) S. Paul, S. Goswami, C. D. Mukhopadhyay, "A remarkable ratiometric fluorescent chemodosimeter for very rapid detection of hydrogen sulfide in the vapour phase and living cells" *New J. Chem.*, 39, **2015**, 8940-8947.
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(iii) **Patent**

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Year: 2015

- (i) **Journals: 72**
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Patent - Nil

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