RESUME

1.	Name	:	MANOJIT GHOSH	
2.	Date of Birth	:	21 st day of December 1972	
3.	Place of Birth	:	Kolkata	
4.	Office	:	Indian Institute of Engineering Science and Technology, Shibpur, Howrah	
5.	Designation	:	Associate Professor	
6.	Total Experience	:	19 years in Teaching and Research	
7.	Address	:		
	Work :	: Department of Metallurgy and Materials Engineering, Indian I of Engineering Science and Technology, Shibpur, Howrah, SF HOWRAH – 711 103		
	E-mail :	manojit_ghosh1	@rediffmail.com	
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	Office	: 2668450	51 to 63 Ext. 248	
8.	Educational Qualif	fication		

Doctoral:Delft University of Technology, Netherlands in 2011Masters:Indian Institute of Technology, Kharagpur in 1998

9. Professional Experience (in Chronological Order)

Period	Organization	Nature of work	Designation
1998-2003	Department of Metallurgy Bengal Engineering College (D.U.)	Teaching and research	Lecturer
2003-2004	Department of Metallurgy & Materials Engineering, Bengal Engineering & Science University, Shibpur	Teaching and research	Senior Lecturer
2004-2008	Department of Materials Science and Engineering, Delft University of Technology, Netherlands	Research	Ph.D. Researcher
2008-2011	Department of Metallurgy & Materials Engineering, Bengal Engineering & Science University, Shibpur	Teaching and research	Assistant Professor
2011-date	Department of Metallurgy & Materials	Teaching and	Associate

Engineering, Bengal Engineering & Science	research	Professor
University, Shibpur		

10. *Field of Specialization*

- (i) Characterization of aluminium alloys by texture
- (ii) Thermo-mechanical simulation of aluminium alloys
- (iii) Modeling texture, work-hardening and anisotropy

11. Thesis Guided

UG Thesis completed	:	24
PG Thesis completed	:	14
Ph.d. on going	:	11

12. Courses taught in Undergraduate and Postgraduate level

Course Title	Level (UG/PG)
Data Processing and Computer Application	UG
Joining of Metals	UG
Metallurgical Thermodynamics and Kinetics	UG
Steel Making & ferroalloy Technology	UG
Non-ferrous Metallurgy	UG
Mechanical Metallurgy	UG
Powder Metallurgy	UG
Deformation Behavior	UG
Introduction to Physical Metallurgy	UG
Advanced Phase Transformation-I	PG
Advanced Thermodynamics	PG

13. Invited lecturers

- "Semi-solid casting and crystallographic texture", Metallicx 2017, Organized by Department of Metallurgy and Materials Engineering, Jadavpur University, 17th March 2017
- 2. "Development of texture at the flange after deep-drawing in AA6016 alloy", NCAFMPM 2017, ORGANIZED BY CMERI, Durgapur, 02nd February, 2017
- "Introduction to Crystallographic Texture in Materials Characterization: Principles and Practices", MCPP 2016, organized by IIEST, Shibpur, from 25th July to 5th August 2016.
- 4. "Latest Advances and Future Prospects of Welding Technologies", AWST on 26th October 2016, organized by Gaabesu, IIEST, Shibpur.

- 5. "Change of crystallographic texture after deep drawing", August 27th, 2015 at Ghent University, Belgium
- 6. "Characterization by Crystallographic Texture", NIT, Rourkella, 17th June 2015
- 7. "Anisotropy and texture for aluminium alloys", IMMT, Bhubaneswar, on 22nd October, 2014.
- "Work Hardening and Anisotropy for Aluminium Alloys", TEQIP sponsored short term course on "Characterization and deformation behavior of materials for strategic applications" on October 3rd to 5th 2013, at MNIT, Jaipur.
- 9. "Examining Energy and Environment Issues in Non-ferrous Metallurgy in the Light of Industrial Metabolism" International Conference on Energy and Environmental issues in Non-ferrous Industries: Compilation of Bentchmarks, Hotel Pride, Kolkata, December 7-8, 2012
- "Energy Consumption In Indian Non-Ferrous Industries: Need for Bench Marking of Data", 16th International Conference on Non-ferrous Metals, Hotel Le Meridien, New Delhi, 13-14th July 2012.
- 11. *"On Anisotropy and Warm Forming",* Texture and Anisotropy Conference 2008, Delft University of Technology, Delft, Netherlands, April 4, 2008
- 12. "Tensile and Plane Strain Compression Response of Aluminium 6xxx alloys at warm temperatures", Warm forming of Aluminium Alloys, University Twente, Netherlands, January 8, 2008.
- 13. *"Warm Deep-Drawing and Post Drawing Characterization of AA6016 and AA6061",* 14th International Congress Building Bridges in Metallurgy, Materials Innovation Institute, Noordwijkerhout, Netherlands, December 11-12, 2006.
- 14. *"Measurement of Texture by EBSD and XRD",* Workshop on Modelling Tools in Materials Science, Delft University of Technology, Netherlands, April 13, 2006
- 15. "Mechanical Characterization of Aluminium Sheets at Warm Temperatures", 13th International Congress Building Bridges in Metallurgy, Materials Innovation Institute, Noordwijkerhout, Netherlands, December 10 - 11, 2005.
- 16. "Warm Compaction for the Preparation of Self Lubricating Bearing", MCM, Delft University of Technology, MCM, Delft University of Technology, January 14, 2004.
- 17. "Advances in Welding Technology", Short Term Course, B.E. College, West Bengal, India, June 24, 2000.

14. *Contributory lectures*

- 1. "Effect of temperature and deformation mode on texture evolution of AA6061", International Conference on Materials Science, Engineering and Manufacturing organized by Academy of Science Engineering and Technology, 5-6 July 2014.
- "Effect of Trace Added Sn on Mechanical Properties of Al-Zn-Mg Alloy", 17th International Conference on Non-Ferrous Minerals & Metals, 5-6 July, 2013, Ranchi.
- 3. "Energy Survey for Indian Non-ferrous Industries", Seminar on Research and Application of Environment-friendly Solutions for Metallurgical industries, January 21, 2012, Bengal Engineering and Science University, Shibpur, Howrah.
- 4. "Influence of Through Thickness Texture on the Accuracy of R-value Prediction", M. Ghosh, at 66th Annual Technical Meeting, Indian Institute of Metals, 16-19 November 2013, Jamshedpur.
- "Applicability of a dislocation based work-hardening model for AA6XXX alloys", Symposium- : Mechanical, 64th Annual Technical Meeting, Indian Institute of Metals, November 14-16, 2010, Indian Institute of Science, Bangalore, India, 2010, <u>CL-24(W012), p.173</u>
- "Slip and anisotropy: Learning through experiments and modeling for AA6xxx sheets", Symposium-C: Texture Evolution, 63rd Annual Technical Meeting, Indian Institute of Metals, November 16-17, 2009, Science City, Kolkata, India, 2009, Kolkata, CL-24(W012), p.17
- 7. *"Temperature on anisotropy for AA6xxx sheet",* Poster presentation on INSTRUO-09 at Bengal Engineering and Science University, 11-12 April, 2009
- 8. "An advanced material model for aluminium sheet forming at elevated temperatures", 10th International Conference on Computational Plasticity, Barcelona, August 31 September 4, 2009
- 9. *"Effect of temperature in anisotropy in forming simulation of aluminium alloys"*, ESAFORM, April 27-29, 2009, The Netherlands
- 10. *"Effect of temperature on plastic anisotropy of AA6xxx sheets"*, Texture and Anisotropy symposium 2009, Université de Paris, France, April 2, 2009.
- 11. "Deformation texture and plastic anisotropy of AA6xxx at warm temperature", TMS 2009, USA, February 15-18, 2009.
- 12. *"Thermo-mechanical forming of Al-Mg-Si sheet"*, KOMPLASTECH-2009, Poland, January 11-14, 2009
- 13. "Changes in Deformation texture and plastic anisotropy with temperature for AA6016", International Symposium for Research Scholars, IIT, Madras, December 10 12, 2008.

- 14. *"Textural changes after warm temperature forming of AA6xxx"*, International Conference on Aluminium Alloys-11, Aachen, Germany, 22-26 September, 2008.
- 15. "A dislocation based constitutive model for warm forming of aluminium sheet", International Conference on Technology of Plasticity, Korea, September 7-11, 2008.
- "Mechanical Behavior of AA6xxx Sheets at Warm Temperatures", International Conference on Advanced Materials 2007, Bangalore, India, October 8 – 13, 2007.
- 17. *"Warm deep drawing of 6xxx Aluminium alloys"*, DGM, DVM, PTM, Nurnburg, Germany, September 10 13, 2007.
- 18. "Mechanical Characterization of Aluminium Sheets at Warm Temperatures", Symposium on Materials in Mechanical and Maritime Engineering, Delft University of Technology, Netherlands, October 27, 2005.
- 19. "Preparation of Cu-Sn and Cu-Sn-Graphite Compacts Through a Non Conventional Warm Compaction Route", National Metallurgical Laboratories, Jamshedpur, India, July 3, 2002.
- 15. Organizing Seminar / Workshop
 - Convener, Industry Institute Meet 2017, organized by Centre of Excellence in association with Department of Metallurgy and Materials Engineering, IIEST, Shibpur, 2nd March 2017.
 - Convener, International Workshop on "Crystallography and Texture", under Indo-Belgium framework organized by the Department of Metallurgy and Materials Engineering in collaboration with Indian Institute of Metals, BESU Chapter.
 - In organizing Committee of "Materials Characterization: Principles and Practices, MCPP 2016", held from 25th July to 5th August 2016 at IIEST, Shibpur
 - Convener, International Conference on "Corrosion Control in Infrastructure, Pipeline, RCC structure & Automobile" held on 28th February and 1st March 2014, organized by the Department of Metallurgy and Materials Engineering in collaboration with Institute for Steel Development and Growth and Indian Institute of Metals, BESU Chapter.
 - Convener, International Conference on "Energy and Environmental issues in Non-ferrous Industries: Compilation of Benchmarks" held on 7th and 8th August 2012, organized by the Department of Metallurgy and Materials Engineering in collaboration with Millennium Institute of Energy and Environment Management.
 - Member of the organizing committee of the Workshop on "Surface Engineering of Metals and Alloys" held on 1st and 2nd March 2012, organized by the Department

of Metallurgy and Materials Engineering in collaboration with Indian Institute of Metals, BESU chapter.

- Member of the organizing committee of the Seminar on "Research and Application of Environment friendly solutions for Metallurgical Industries" held on 21st January 2012, organized by the Department of Metallurgy and Materials Engineering in collaboration with Millennium Institute of Energy and Environment Management.
- Convener, National seminar on "Wear Resistance Surfaces and Materials for Industrial Applications" held on 7th and 8th August 2010, organized by the Department of Metallurgy and Materials Engineering in collaboration with Indian Institute of Metals, BESU chapter.
- Member of the core organizing committee and convener of the exhibition committee of 47th National Metallurgists' Day, 63rd Annual Technical Meeting and International Symposium on Emerging Challenges for Metals & Materials: Engineering & Technology, 2009, organized by Indian Institute of Metals, Calcutta and B.E. College Chapters.
- *Member* of the core committee, presentation committee and paper reviewer of the INSTRUO-09, organized by BESUS.
- *Member* of the organizing committee for the Education Fair held on May 2009 at Netaji Indoor Stadium organized by Bengal Engineering and Science University, Shibpur
- Member of the Diamond Jubilee Celebration Committee and National Seminar on Emerging Trends in Metallurgy and Materials Science held on 29-30th January 2000, Organized by the Department of Metallurgy and Materials Engineering, B.E. College (Deemed University), Howrah
- *Joint coordinator* of the Welding Summer School organized by Department of Metallurgy, Bengal Engineering College (D.U.) in 2004.
- *Joint coordinator* of National Institute of Secondary Steel Making Technology Course run by Department of Metallurgy, B.E. College (2000-2001)
- *Member* of the selection committee of National Institute of Secondary Steel Making Technology in 2000.
- 16. Conference / Workshop Attended
 - 1. Workshop on "Use of Gleeble® in Materials Processing" July 15 to 16 2016, at IIT Madras, Chennai, organized by Department of Metallurgical and Materials Engineering,IIT Madras, Chennai.
 - Technology Fair and 5th Environment Partnership Summit organized by Indian Chamber of Commerce (ICC) 3rd March 2012, Kolkata on "corporate Sustainability: Managing carbon for business"

- Workshop on "Surface Engineering of Metals and Alloys" held on 1st and 2nd March 2012, organized by the Department of Metallurgy and Materials Engineering in collaboration with Indian Institute of Metals, BESU chapter.
- Seminar on "Research and Application of Environment-friendly Solutions for Metallurgical industries", Organized by department of Metallurgy and Materials Engineering, BESU, Shibpur, in Collaboration with Millennium Institute of Energy & Environment Management, January, 2012
- 5. Short term course on "Mechanics Over Micro and Nano Scale", BESU, 21-22 December 2009
- 6. Graduate School on Work-Hardening, February 3-6, 2009, University Leuven, Belgium.
- 7. Texture and Anisotropy, April 4, 2008, MCM, Delft University of Technology, The Netherlands.
- 8. 14th International Congress *Building Bridges in Metallurgy*, December 11-12, Materials Innovation Institute, Noordwijkerhout, The Netherlands
- 9. International Conference on Advanced Materials 2007, October 8-13, 2007, Bangalore, India.
- 10. Euromat 2007, DGM, DVM, PTM, September 10-13, 2007, Nurnburg, Germany.
- 11. 9th International Summer School on Aluminium Alloy Technology, August 20 24, 2007, NTNU, Norway.
- 12. Symposium on *New Frontiers in Light Metals*, MCM, November 9, 2006, Delft University of Technology, Delft, Netherlands.
- 13. Symposium on *From microstructure towards plastic behavior of single and multiphase materials,* October 26-27, 2006, University Lueven, Liège, Belgium.
- 14. GLADD meeting on Forming and modeling of Aluminium Alloys, August 24, 2006, University Gent, Belgium.
- 15. 10th International Conference on Aluminium Alloys, July 9-13, 2006, Vancouver, Canada.
- 16. Symposium on Structure and Structure Evolution in Fe-based Meteorites, April 24, 2006, Delft University of Technology, The Netherlands.
- 17. Workshop on Modelling Tools in Materials Science, April 13, 2006, Delft University of Technology, The Netherlands.
- 18. 13th International Congress Building Bridges in Metallurgy, December 10-11, 2005, Materials Innovation Institute, Noordwijkerhout, The Netherlands

- 19. Symposium on Materials in Mechanical and Maritime Engineering, October 27, 2005, 3mE, Delft, Netherlands.
- 20. Workshop on Modern tools for Materials Science, October 20, 2005, Delft University of Technology, The Netherlands.
- 21. Workshop on Heat-Treatment, October 7, 2005, Corus, IJmuiden, The Netherlands.
- Workshop on Phase-Field Modelling of Metallic Solid-State Processes, October 3, 2005, Department of Materials Science and Engineering, Delft University of Technology, The Netherlands.
- 23. National Seminar on Nanomaterials, March 6-7, 2003, CGCRI, Kolkata
- 24. Summer School on Development of High Energy Density Magnetic Materials characterization, October 1-11, 2002, Quality Improvement Program, Materials Science Center, I.I.T., Kharagpur.
- 25. Faculty Development Program in Entrepreneurship, June 17 29, 2002, Department of Human Resource Management, B.E. College (D.U.), Shibpur, Howrah.
- 26. Second European International Conference on Nanomechanical Indentation, September 24-27, 2001, Kolon, Germany.
- 27. UGC sponsored refresher course on Advances in Engineering Materials, March 14 April 03, 2001, Department of Metallurgy, Jadavpur University, Kolkata.
- 28. Summer School on Advances in Welding Technology, June 12-25, 2000, All India Council for Technical Education, Organized by Department of Metallurgy, B.E. College (D.U.), Howrah.
- 29. Winter School on Unix and C under Quality Improvement Program, December 13-24, 1999, All India Council for Technical Education, Organized by Department of Computer Science and Technology, B.E. College (D.U.), Howrah.
- Workshop on Application of Electron Microscopy in Materials Characterization, September 27-28, 1997, Organized by B.E. College (D.U.) and Indian Institute of Metals.

17. Other academic activities

- Reviewer of "Journal of Alloys and Compounds" 2014
- External examiner of ME thesis Viva voce examination at Department of Metallurgy and Materials Engineering, Jadavpur University
- External examiner for selection of SRF/JRF at department of Metallurgy, NIT, Rourkela.
- Reviewer of the conference proceedings International Conference on Nonferrous Metals 2013" held at Ranchi organized by Corporate Monitor.

- Member of the Ph.D. Committee of Mr. Diptangshu Mukherjee (enrollment no is 502013E009 dated 8th January 2013 and effective from 26/12/2012 in the department of Chemistry, BESU, Shibpur.
- Secretary, Departmental Academic Committee, Department of Metallurgy and Materials Engineering, 2013-2015
- Secretary, Indian Institute of Metals, B.E.S.U Chapter, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014
- Centre in charge of the AMIIM examination for the year 2010-11, 2011-2012
- Viva Voce examiner of the AMIIM examination for the year 2010-11, 2011-2012
- Acted as a judge for the academic meet at "Instro 2010", organized by BESU.
- *Treasure,* Diamond Jubilee Celebration Committee of Department of Metallurgy in 2004.
- Honorary treasure of Indian Institute of Metals, B.E. College chapter (1999 2001)
- Paper setter and examiner of AMIIM examination conducted by Indian Institute of Metals
- Paper setter and examiner of the examination conducted by the Institution of Engineers

18. Publication *details*

•	Paper published in SCI journal	:	13
•	Proceedings of International Conferences	:	20
•	Invited talk delivered	:	08
•	Contributory presentations	:	18
•	Conference, Symposium or workshops attend	ded :	29
	List of publications »	See Anne>	kure-l

19. Current Areas of Research

- Currently working on thermo-mechanical simulation and characterization by texture for aluminium alloys which is completely a new field of research in BESUS. Texture characterization by XRD and EBSD along with its modeling is the prime area of interest now. One project has been ready to set with Dr. karthikayan of IISc, Bangalore on Al-Mg-Sc series aiming to study their textural behavior after deformation and to estimate their applicability for automotive applications.
- ✓ Another project is on primary construction level with Delft University of Technology, The Netherlands, involving the study of precipitate characterization for the Al-Mg-Sc system by HRTEM and Atom Probe Microscopy. Modeling of work hardening and anisotropy during deformation are also research of interest of the nominee.

20. Membership of the academic bodies, Awards & Honors received

<u>Memberships</u>

• Life Member of Indian Institute of Metals

- Life Member of Indian Science Congress Association
- Life Member Millennium Institute for Energy and Environment Management
- Life Member of Materials Research Society of India
- Member of Institution of Engineers (I)
- Life Member of Millennium Institute for Energy & Environment Management
- Member of Indian Society for technical Education
- Life member Indian Association for Productivity, Quality & Reliability

<u>Awards</u>

- Visiting scientist under FEA-CWO mobility program at Ghent University, Belgium, September 2015
- Prof. Dr. Ing. Dr. Hc. Hans Wilfried Wagener Endowment Award for the paper entitled "Changes in deformation texture and plastic anisotropy with temperature for AA6016" in the conference ISRS-2008, held on 10-12 December 2008 at IIT, Chennai.
- Visiting Scientist at University Twente, The Netherlands, July 2009
- Visiting Scientist at IISc. Bangalore under UGC sponsored NRCM scheme, April 2009.
- Institute fellowship at Technical University Delft, Netherlands in the year 2004 to 2008 to pursue Ph.D. study.
- Visiting Fellow at Centre for Theoretical Studies (CTS), IIT, Kharagpur 2003-04.

21. List of Publications

Conference Proceedings

- Swadipta Roy, Dibyendu Naha, Manojit Ghosh, "Influence of HVOF Process Parameters of WC-Co-Cr Coating on Mild Steel Substrate", eProceedings of 17th Asian Pacific Corrosion Control Conference (APCCC 17), Eds. V. Kain, V.S. Raja & S. Roychowdhury, held during 27-30, January, 2016.
- Study of mechanical properties, microstructures and corrosion behavior of al 7075 T651 alloy with varying strain rate A Mukherjee, M Ghosh, K Mondal, P Venkitanarayanan, AP Moon, IOP Conference Series: Materials Science and Engineering 75 (1), 012031, 2015
- "Statistical analysis of the effects of Wire EDM machining parameters on Material Removal Rate and Kerf Width of commercially available Tool steel", N.G. Roy, A. Pramanick, P. P. Dey and M. Ghosh, 11th International Conference on Mechanical Engineering, ICME 2015, Dhaka

- "Effect of Temperature and Deformation Mode on Texture Evolution of AA6061", M. Ghosh, A. Miroux, L.A.I. Kestens, Proceedings of the International Conference on International Conference on Materials Science, Engineering and Manufacturing, Singapore, organized by World Academy of Science, Engineering and Technology, International Science Index, Vol. 8, No. 3-2014, p. 1209.
- "Influence of HVOF process parameters of WC-Co-Cr coating on mild steel substrate", D. Naha, M. Ghosh and J. Dutta Mazumdar, Proceedings of the 67th Annual Technical Meeting, The Indian Institute of Metals, November 12-15, 2013, VIII.O.15,p.123
- "Influence of Through Thickness Texture on the Accuracy of R-value Prediction", M. Ghosh, A. Miroux and L. Kestens, Proceedings of the 66th Annual Technical Meeting, *The Indian Institute of Metals*, November 16-19, 2012, *NF-05, p.63*
- 7. "Examining Energy and Environment Issues in Non-ferrous Metallurgy in the Light of Industrial Metabolism" **M. Ghosh**, P.S. Banerjee and H.S. Ray, *Proceedings of the International Conference on Energy and Environmental issues in Non-ferrous Industries: Compilation of Bentchmarks*, 2012, 103-110
- 8. "Effect of trace added Sn on mechanical properties of Al-Zn-Mg alloy", S. Sadhukhan, M. Kundu and M. Ghosh, Proceedings of the 17th International Conference on Non-ferrous Minerals and Metals, 2013, pp Tech 6/1-tech6/8, eds. A.K. Dayal, Abhilash, V. Mishra and T.R. Mankhand
- "Application of combined model approaches to the simulation of microstructure evolution during processing of aluminium alloys" A. Miroux, M. Ghosh, S. Kurukuri, R.K. Dutta, M. de Jong, A. Bahrami, L.A.I. Kestens, A.H. van den Boorgaard, P.E.J. Rivera-Diaz-Del-Castillo, M.H.F. Sluiter, A.J. den Bakker, *Proceedings of the 2013 TMS Annual Meeting & Exhibition, The Minerals, Metals & Materials Society (TMS)*, San Antonio, Texas, USA, 2013,
- "Bench Marking of Energy Consumption Data For Indian Non-ferrous Industries", M. Ghosh, D. De. Sarkar, P.S. Banerjee and H.S. Ray, Proceedings of the 16th International Conference on Non-ferrous Metals and Alloys, 2012, pp Tech 16/1tech16/8
- 11. "Energy Survey for Indian Non-ferrous Industries", **M. Ghosh**, P.S. Banerjee, H.S. Ray and D. De. Sarkar, *Proceedings of the seminar on "Research and Application of Environment-friendly Solutions for Metallurgical industries*", 2012, p.34
- "Applicability of a dislocation based work-hardening model for AA6XXX alloys", M. Ghosh, A. Miroux and L. Kestens, Proceedings of the 64th Annual Technical Meeting, *The Indian Institute of Metals*, November 14-16, 2010, *CL-24(W012)*, p.173
- 13. "Mechanical and Forming Properties of AA6xxx Sheet from Room to Warm Temperatures", **Manojit Ghosh**, Alexis Miroux, , Srihari Kurukuri, Leo Kestens and Ton van den Boogaard, *Proceedings of the 12th International Conference*

on, Aluminium Alloys, September 5-9, 2010, Yokohama, Japan ©2010 The Japan Institute of Light Metals, pp. 1243-1248

- 14. "Thermo-mechanical forming of Al-Mg-Si alloys: modelling and experiments", S. Kukukuri, A.H. van den Boggaard, M. Ghosh and A. G. Miroux, NUMIFORM 2010, *Proceedings of the 10th International conference*, eds. F. Barlat, Y.H. Moon and M.G. Lee, ISBN/ISSN = 978-0-7354-0800-5, published by American Institute of Physics
- "Slip and anisotropy: Learning through experiments and modeling for AA6xxx sheets", M. Ghosh, A. Miroux and L.K. Kestens, *Proceedings of the 63rd Annual Technical Meeting, Indian Institute of Metals*, November 16-17, 2009, Kolkata, CL-24(W012), p.173
- 16. "An advanced material model for aluminium sheet forming at elevated temperatures", S. Kukukuri, M. Ghosh, A. G. Miroux, and A.H. van den Boggaard, Xth International Conference on Computational Plasticity, Proceedings of the International Conference on Computational Plasticity, ed. E. Onate, D.R.J. Owen and B. Suarez, ISBN/ISSN = 978-84-96736-69-6; Published by International Center for Numerical Methods in Engineering (CIMNE)
- "Deformation texture and plastic anisotropy with temperature for AA6016", M. Ghosh, A. Miroux, J. Sidor, L. Kestens, *Proceedings of the 2009 TMS Annual Meeting & Exhibition,* The Minerals, Metals & Materials Society (TMS), Warrendale, Pennsylvania, USA, 2009, ISBN 978-0-87339-735-3, 2009, 101.
- "Textural changes after warm temperature forming of AA6xxx", Aluminium Alloys, M. Ghosh, A. Miroux, R. Werkhove, P. Jan Bolt, J. Sidor and L. Kestens, proceeding of the 11th International Conference on Aluminium Alloys, ed. J. Hirsch, B. Skrotski and G. Gottstein, (2008) 782, published by Wiley-VCH Verlag GmbH & Co, KGaA, Weinheim, Germany, ISBN 978-3-527-32367-8, 2008, 782.
- "Changes in deformation texture and plastic anisotropy with temperature for AA6016", M. Ghosh, A. G. Miroux, and L. Kestens, *Proceedings of International Symposium for Research Scholars on Metallurgy*, ed. ISSN 0973-659X, 2008, 165
- "A dislocation based constitutive model for warm forming of aluminium sheet", M. Ghosh, S. Kukukuri, A. G. Miroux, and A.H. van den Boggaard, *Proceedings of the 9th International Conference on Technology of Plasticity*, ed. D.Y. Yang, ISBN 978-89-5708-152-5, 2008, 233
- "Mechanical Behavior of AA6xxx Sheets at Warm Temperatures", M. Ghosh, A. Miroux and L. Kestens, Proceedings of 10th International Conference on Advanced Materials (ICAM), Bangalore, (2007), 114
- 22. "Study of dry sliding wear in spray formed Si alloys" Changdar, S. Ghosh, M. and Dwarakadasa, E.S. Proc. Int. Symposium on Materials Ageing and Life Management, Kalpakkam, (Eds.) Baldev Raj, K. Bhanu Sanakara Rao, T. Jayakumar and R.K. Dayal Allied Publishers Limited, Chennai (2000)

23. "Effect of Processing on Mechanical and Microstructural Properties of Al-220% SiC Particulate Composite", **M. Ghosh** and S. Chatterjee, *Proceedings of the International Conference on Manufacturing*, 2000, 462

Peer Reviewed Journals

- "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, accepted for publication.
- "Microstructure and wear behavior of pulsed plasma nitrided AISI H13 tool steel", Kalyan Das, Alphonsa Joseph, M. Ghosh, S. Mukherjee, Journal: Canadian Metallurgical Quarterly, 55:4, 402-408, 2016, DOI: 10.1080/00084433.2016.1241940
- "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
- "Correlating r-value and through thickness texture in Al–Mg–Si alloy sheets", M. Ghosh, A. Miroux, L.A.I. Kestens, *Journal of Alloys and Compounds* 619 (2015) 585–591
- "Structural, optical, hyperfine and magnetization studies of ZnO encapsulated a-Fe nanoparticles", A.K. Rathore, S.P. Pati, A. Roychowdhury, M. Ghosh, D. Das, <u>Materials Research Bulletin</u>, 60 (2014) 566–571
- "Examining Energy and Environment Issues in Non-ferrous Metallurgy in the Light of Industrial Metabolism", M. Ghosh, P.S. Banerjee and H.S. Ray, <u>Journal</u> <u>of Materials and Environmental Science</u> 5 (2) (2014) 380-389
- 7. "Warm Deep-drawing And Post Drawing Analysis of Two Al-Mg-Si Alloys", Manojit Ghosh, A. Miroux, R.J. Werkhoven, P.J. Bolt and L.A.I. Kestens, International Journal of Materials Processing Technology, 214, 2014, 756-766
- 8. "Environmental Pollution Due to Gaseous Emissions During Non-ferrous Extraction Processes", **Manojit Ghosh**, P.S. Banerjee and H.S. Ray, <u>Russian</u> <u>Journal of Non-Ferrous Metals</u>, 55(3), 2014, 263-269
- "Effect of Trace Added Sn on Mechanical Properties of Al-Zn-Mg alloy", S. Sadhukhan, M. Kundu, M. Ghosh, <u>Advanced Materials Research Journ</u>al, 828 (2014) pp 73-80
- "Energy Consumption In Indian Non-Ferrous Industries: Need for Bench Marking of Data", M. Ghosh, D. De. Sarkar, P.S. Banerjee and H.S. Ray, <u>International</u> <u>Journal of Metallurgical Engineering</u>, 1(6), 78-82, 2012.

- "AI-Fe-Si Intermetallics in Sc-added Cast AI-4.5Zn-2Mg Alloy", S. Sadhukhan, S. Biswas, M. Ghosh, K. Biswas, *International Journal of Metallurgical Engineering*, 1(4), 44-47, 2012
- "Microstructure-Texture-Fracture Toughness Property Correlation in Annealed Al-6Mg Alloy with Minor Scandium and Zirconium Additions", R. Sen, **M. Ghosh** and S. Kaiser, <u>Fatigue & Fracture of Engineering Materials & Structures</u>, 35, 2012, 1071-1078.
- 13. "Computermodel stap dichterbij Beter vervormbaarheid 6xxx aluminium", J. Vaartjes and **M. Ghosh**, <u>Aluminium</u>, 4, 2011, p.10
- "Correlating Fracture Toughness and Texture in Cast and Annealed AI-6Mg Alloy with Minor Additions of Scandium and Zirconium", M. Ghosh, R. Sen, and M.K. Banerjee, <u>Indian Foundry Journal</u> 57 (2), 2011, p.31
- "Thermo-mechanical forming of Al-Mg-Si sheet", A.H. van den Boggaard, S. Kukukuri, M. Ghosh and A. G. Miroux, <u>Computer Methods in Materials Science</u> 9 (2009) 5.
- "Effect of temperature on anisotropy in forming simulation of aluminium alloys", S. Kukukuri, M. Ghosh, A. G. Miroux, and A.H. van den Boggaard, <u>International</u> <u>Journal of Material Forming, vol. 2 Supplement</u> 1 (2009) 387
- "Preparation of Copper-Tin Compacts by warm Compaction Route", M. Ghosh, S. Ghosh, A. Basumallick, B.K. Datta, <u>Journal of Metallurgy and Materials</u> <u>Science</u>, 2001, 119.
- "Determination of Diffusion Coefficient by Rotating Sample Technique", M. Ghosh, P.J. Roychowdhury, <u>Journal of Technology</u>, 2000, 83

22. Book Written

1. "Microstructurally Controlled Mechanical Properties of Al-Mg-Si Alloys for Warm Forming Applications", M. Ghosh, *ISBN Number:* 978-90-77172-70-4, 2011

Book Chapter

2. "Development of texture at the flange after deep-drawing in AA6016 alloy", M. Ghosh and A. Miroux, in *Advanced Functional Materials Processing & Manufacturing, ISBN Number: 978-93-86256-40-9, eds.* EXCEL India Publisher, New Delhi, 2017.

Research Projects

1. Indo-Belgian Top up grant

Duration: 3 years (2016 to 2019)

Sponsoring Agency: DST-BELSPRO Collaborating Institute: Ghent University, Belgium Amount: 19 lakhs

2. Evolution of microstructure and texture in dissimilar alloys during Electron beam Welding

Duration: 3 years (2015 to 2018) Sponsoring Agency: DAE-BRNS Amount: 23 lakhs

3. Influence of Silver and Tin on Microstructure and texture in Al-Zn-Mg alloy

Duration: 3 years (completed) Sponsoring Agency: UGC Amount: 13 lakhs

4. Influence of Ag and Sn on Microstructure and Texture in Al-Zn-Mg Alloys during Severe Plastic Deformation

Duration: 3 years (completed) Sponsoring Agency: UGC-NRCM Collaborating Institute: IISc, Bangalore Amount: 1 lakh

5. Nodal person of the Erasmus Mundus Action 2 program as Associate partner

Duration: 4 years (2015-2019) Sponsoring Agency: EU Collaborating Institute: Ghent University, Belgium Activity: Student exchange

Consultancy Projects

6. Evaluation of typical welded joints used for constructional grades of steel

Duration: 4 months (completed) Sponsoring Agency: Institute for Steel Development and Growth Amount: 56,000/-

7. Stainless steel for construction segment Duration: 4 months (completed) Sponsoring Agency: Institute for Steel Development and Growth Amount: 56,000/

Manojit Ghosh