Curriculum Vitae

Name	: Dr. Md. Fakhrul Islam
Father's Name	: Late Janab Mahmudul Haque
Mather's Name	: Late Janaba Fultaj Khatun
Permanent address	: Vill- Aungshar Jiri, P.O- Kumari Bazar, P.S- Lama, Dist. Bandarban
Present address	: Professor Department of Nanomaterials and Ceramic Engineering Bangladesh University of Engineering and Technology Dhaka- 1000, Bangladesh. Mobile: +8801703381333 E-mail: fislam@nce.buet.ac.bd
Nationality	: Bangladeshi
Date of birth	: 30 July 1961
Religion	: Islam

Profile Summary

Dr. Md. Fakhrul Islam earned his PhD and MSc in Materials Science at the University of Manchester in 1995 and 1991, respectively, supported by the prestigious UK Commonwealth Scholarship. Prior to that, he earned his MSc and BSc in Metallurgical Engineering from BUET in 1988 and 1986, receiving the Chancellor's Award for graduating First Class First in his undergraduate program

Upon graduation, Dr. Fakhrul joined BUET's Department of Metallurgical Engineering as a lecturer in 1989, rising to the rank of full professor by 2005. Over the years, he has published over 100 research papers, contributing significantly to the field of materials science and engineering.

Dr. Fakhrul is the founder of the Department of Nanomaterials and Ceramic Engineering (NCE) at BUET. He developed its state-of-the-art laboratory infrastructure equipped with advanced and sophisticated instrumentation, and successfully established the first postgraduate program in 2010, followed by the country's first undergraduate program in this field in 2022 — the first undergraduate degree program of its kind in Bangladesh, marking a significant milestone in the nation's higher education landscape.

This transformative journey began in 2010, when he founded BUET's Department of Glass and Ceramic Engineering (GCE), successfully convincing the government to secure the necessary funding for its establishment. Through his own initiative and vision, he built the department from the ground up, laying the foundation for specialized research in emerging materials science.

Anticipating the global shift toward advanced materials and nanotechnology, his foresight led to the department's renaming as Nanomaterials and Ceramic Engineering (NCE), aligning it with the demands of the Fourth Industrial Revolution. Over his career, Dr. Fakhrul also led two BUET departments — Materials and Metallurgical Engineering (MME) and NCE — for a combined 11 years, championing initiatives that enhanced research and infrastructure, and demonstrating his excellence both as an educator and an administrator.

During his time as a Research Scientist at IMEC in Belgium, Dr. Fakhrul conceived the idea of producing pure silicon in Bangladesh using locally sourced raw materials, understanding its pivotal role in semiconductor technology. With a $1 million grant from the World Bank, he established a ceramic fiber production lab at BUET's NCE department. Additionally, he is advancing research on silicon nanoparticles using a home-built microwave plasma reactor, laying the foundation for future semiconductor manufacturing in Bangladesh.

In 2020, amid the global Covid-19 pandemic, Dr. Fakhrul was appointed to lead the restoration of the Usmania Glass Sheet Factory after a fire severely damaged its furnaces and other equipment. Despite the risks posed by the pandemic, he and his team worked tirelessly for four months to bring the factory back to full operation. His leadership during this challenging time underscores his dedication to overcoming adversity and finding critical solutions when needed most.

Research Interest: Multiferroics, ferroelectric materials, engineering and traditional ceramics, refractories, fabrication of microwave plasma reactor to produce nanoparticles and production of H_2 fuel using nanoparticles photocatalyst.

Education:

Degree/ Examination	Institution (University/College/School/ Department)	Class/Division/GPA (Percent Marks)	Year
Ph.D. (Materials Science)	University of Manchester-Institute of Science and Technology (UMIST), UK	Successfully completed	1995
M. Sc. (Metallic and Ceramic Materials)	University of Manchester-Institute of Science and Technology (UMIST), UK	First Class (70.00%)	1991
M. Sc. Engineering (Metallurgical)	Bangladesh University of Engineering and Technology	GPA – 3.42 (4 point basis)	1988
B. Sc. Engineering (Metallurgical)	Bangladesh University of Engineering and Technology	Stood First in First Class (65.20%)	1986
Higher Secondary certificate	Chittagong Government College, Chittagong	First Division(67.10%)	1980
Secondary School certificate	Habilashdwip High School, Patiya, Chittagong	First Division (70.10%)	1977

Research Grants Received

Organization Offering the grant	Project Title Project	Year
DBL Ceramics Limited	Research Project under Memorandum of Understanding between The Bangladesh University of Engineering and Technology (BUET) and The DBL Ceramics Limited"	March, 2018-February, 2021
University Grants Commission of Bangladesh (UGC)	CP-3823: Ultra-light Weight Energy-saving Heat Insulating Ceramic Materials	July, 2015-June, 2018
Ministry of Education	Establishment of the Department of Glass and Ceramic Engineering in BUET	July, 2009-June, 2016
IBBL Bank, Bangladesh	Refinement of locally available raw materials for ceramics industries	2002
BRTC, BUET	Development of software to analyze microstructural imaged (Image Analyzer)	1996-97

Professional Awards/Honours Received:

- Visiting Professor at the Microsystems Technology Laboratories, MIT,USA from01/08/2019to06/08/2019.
- Visiting Professor under staff mobility programme at the University of Limerick, Ireland from 15/07/2019 to 31/07/2019.
- Received" Chancellor's Award "for securing the First Class First position in the B. Sc. Engineering Examination.
- Obtained Commonwealth Scholarship in 1990 to undertake M.Sc. and Ph.D. programme at UMIST, UK.
- Received Scholarship as a Visiting Scholar at Katholieke University Leuven, Belgium from15/0912002to15/11/2002.

Professional Work at National and International Levels:

- Worked as an Organising Secretary of the 2nd International Conference on Structure, Processing and Properties of Materials (SPPM2004) organised by the Department of Materials and Metallurgical Engineering, BUET, Dhaka, in association with TMS, The Minerals, Metals and Materials Society, USA.
- Worked as a consultant on a Pilot Plant project study on the Production of Bearing Materials at Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka.

- Worked as a team leader to solve the problems of different organizations like China-Bangla Ceramic Industries Ltd., Ball Bearing importers, Plastic industries and R. A. K. Ceramics Ltd., Nasir Glass Industries Limited and Bengal Glass Works Limited.
- Worked as a team leader of the main group to solve the problems of different organizations like Tiende Ceramics Company Ltd., Bangladesh Titas Gas, Bangladesh Railway, Shinepukur Ceramics Ltd.
- Worked as a team leader to minimize the percentage of rejection of insulation products of Bangladesh Insulation and Sanitary-ware Factory (BISF), Dhaka.
- Expert hands on Diffusion Bonding (DB) experiments. Did couple of hundred of DB experiments for Rolls-Royceplc, Bam olds wick, Lancashire, UK.
- Hands-on experience with TEM, SEM plus EDX, HIP auto clave, casting techniques, mechanical testing etc.
- Taken a project to find out possibility and feasibility of using locally available raw materials in our local ceramic and glass industries.

Doctoral Committee member and Ph.D Board of examiner

Sl. No.	Student Name	Thesis Title	Year
1	Sajal Chandra Majumder	Sythesis and investigation of Cu doped Ni-Zn ferrites and La, Dy doped $BiFeO_3$ multiferroic composites	2016
2	K. M. Mobarok Hossain	Analysis of yarm tension generated during circular weft knitting in case of positive storage feeding	2018
3	Abdullah Al-Monim	Effect of ferromagnetic and ferroelectric phases on the magnetic and transport properties of $xLi_{0.1}Ni_{0.2}Mn_{0.6}Fe_{2.1}O_4$ + $(1\text{-}x)Bi_{1\text{-}y}R_yFeO_3$ multiferroic composites	2019
4	Md Meganur Rahman	Bandgap tuning of Bismuth Ferrite by site engineering using Samarium and Cobalt For photovoltaic application	2019
5	Most Asma Akter Bally	Structural, magnetic and magnetocaloric properties of $RE_{0.55}(Ca_x\ Sr_{1\text{-}x})_{0.45}MnO_3$ (RE=Sm, Pr, La) Perovskite	2019
6	M. Mujibur Rahman	Mechanical behavior of solder affected Copper-Bulk Subjected to work-hardening and thermal treatment	2020

Supervision of Thesis/ Design Project at Undergraduate Level

No. of Students	Project and Thesis Title	Year
2	Development of Clay Based Water Filter	2012-2013
1	Effect of Dopants on $BaTiO_3$ Ceramics Dielectric Properties	2011-2012
2	Effect of Nb_2O_5 doping and sintering temperature on the properties of $BaTiO_3$ Ceramics	2010-2011
2	Effect of ZnO, Ta_2O_5 and $BaCO_3$ mixing ratio and sintering parameters on the formation and dielectric properties of BZT	2010-2011
1	Structure-property relationship in $BaTiO_3$ bases dielectric ceramics	2003-2004
1	Assessment of raw materials and extrusion quality of locally produced PVC pipes	2003
2	Characterization of clay minerals	2001-2002
5	structure-property relation in ceramic insulators	1998, 2002, 2003
1	Formation of alumina fibre in jute substrate	2002
1	Diffusion welding of stainless steel	1999

Supervision of completed Graduate Research Work

Level	Thesis Title	Year
M.Sc.	Role of Oxygen Vacancies on Ferromagnetism in Oxide Dilute Magnetic Semiconductors (CeO_2/TiO_2)	2020
M.Sc.	Synthesis and Size-Dependent Properties of Multiferroic $BiFeO_3$ Nanoparticles.	2015
M.Sc.	Structure-Property Relationship of Ba2+ and Ti4+ Doped Multiferroic Bismuth Ferrite	2014
M.Sc.	Studying the Effects of Composition and Sintering Parameters on Dielectric Properties of Tantalum Oxide Doped Barium Titanate	2013
M.Sc.	Study of the Effects of Composition and Sintering Parameters on Dielectric Properties of Zirconia and Niobium Oxide Doped Barium Titanate Ceramics	2011
M.Sc.	Effect of Grain Refinement on the Properties Of Pore Free Strontium Doped $BaTiO_3$ Dielectric Ceramics	2009
M.Phil	Preparation and Characterization of $BaTiO_3$Based Dielectric Ceramics	2008
M.Sc.	Role of Ca Doping and Process Variables in the Dielectric Properties of Barium Titanate Ceramics	2005
M.Sc.	Effect of Composition and Firing Cycle on the Properties of High Tension Ceramic Insulator	2004

Contribution to the University Administration

- Head, The Department of Materials and Metallurgical Engineering during 06/01/2007-05/01/2009
- Head, Department of Glass and Ceramic Engineering, during 11/04/2010-29/05/2017 and 31/08/2019-17/09/2021
- Project Director, "Establishment of the Department of Glass and Ceramic Engineering in BUET" Sub-Project.
- ISM, "Ultra-light Weight Energy-saving Heat Insulating Ceramic Materials", Project.
- Project Director, "Research Project under Memorandum of Understanding between The Bangladesh University of Engineering and Technology (BUET)and The DBL Ceramics Limited"
- Convener, Project Implementation Committee (PIC) - To construct 15 storied GCE-MME & KCC building since 14 February, 2016 - 28 March 2021.

Selected Publications:

1. M.M. Rahman, M.A. Matin, M.A. Hakim, **M.F. Islam** "Optical and electrical properties of impurity-less multiferroic bismuth ferrite nanoparticles" Materials Science & Engineering: B, Elsever, Volume 275, January, 2022.

2. M.A.A. Bally, M.A.Islam, S.M.Hoque, R.Rashid, **Md Fakhrul Islam**, F.A. Khan "Magnetocaloric properties and analysis of the critical point exponents of Pr0.55CaxSr0.45-xMnO3 (x = 0.00, 0.05, 0.1 and 0.2) at PM-FM phase transition", Elsever, Volume 28, September, 2021.

3. A. Momin, Roksana Parvin, M. Shahjahan, **Md. Fakhrul Islam**, Hidekazu Tanaka, A. K. M. Akther Hossain, "Interplay between the ferrimagnetic and ferroelectric phases on the large magnetoelectric coupling of xLi0.1Ni0.2Mn0.6Fe2.1O4–(1−x)Bi0.8Dy0.2FeO3 composites", Journal of Materials Science: Materials in Electronics (Springer), 31(1), 511–525, 2020.

4. T. Morshed, E. Ul Haq, C. Silien, S. A. M. Tofail, M. A. Zubair, **M. F. Islam**, "Current-voltage characteristics of phase boundaries PVDF-TrFE (70/30)/PANI nanocomposite", IEEE Transactions on Dielectrics and Electrical Insulation, 27(5), 1428-1432, 2020.

5. M. M. Mahmud, S. Zaman, A. Perveen, R. A. Jahan, **M. F. Islam**, M. T. Arafat, "Controlled release of curcumin from electrospun fiber mats with antibacterial activity", Journal of Drug Delivery Science and Technology, 55, 101386, 2020.

6. M. M. Rhaman, M. A. Matin, M. N. Hossain, M. N. I. Khan, M. A. Hakim, **M. F. Islam**, "Ferromagnetic, electric, and ferroelectric properties of samarium and cobalt co-doped bismuth ferrite nanoparticles", Journal of Physics and Chemistry of Solids (Elsevier), 147, 109607, 2020.

7. M. M. Rhaman, M. A. Matin, M. A. Al Mamun, A. Hussain, M. N. Hossain, B. C. Das, M. A. Hakim, **M. F. Islam**, "Enhanced electrical conductivity and multiferroic property of cobalt-doped bismuth ferrite nanoparticles", Journal of Materials Science: Materials in Electronics (Springer), 31(11), pp. 8727-8736, 2020.

8. M. A. Matin, M. N. Hossain, M. M. Islam, M. A. Hakim, **M. F. Islam**, "Optical and Ferroelectric Properties of Bi0.95Gd0.05Fe1−xCrxO3", Transactions on Electrical and Electronic Materials (Springer), 21, 5, 2020.

9. M. A. Matin, M. M. Rhaman, M. A. Hakim, and **M. F. Islam**, "Bi(1-y)SmyFeO3 as prospective photovoltaic materials", Bulletin of Materials Science (Springer), 43, 2, 2020.

10. M. Rhaman, M. A. Matin, M. A. Hakim, M. N. Hossain, **M. F. Islam**, B. C. Das, "Enhanced Electric Conductivity and Multiferroic Property of Cobalt Doped Bismuth Ferrite Nanoparticles", Journal of Materials Science: Materials in Electronics (Springer), 31, 8727, 2020.
11. M. A. Zubair, A. A. Mamun, K. McNamara, S. A. M. Tofail, **F. Islam**, V. A. Lebedev, "Amorphous Interface Oxide formed due to high amount of Sm doping (5-20 mol%) stabilizes finer size anatase and lowers indirect band gap", Applied Surface Science (Elsevier), 529, 146967, 1-11, 2020.

12. M.J. Islam, M.R. Alam, **M.F. Islam**, M. Hasanuzzaman, "Evaluation of commonly used aggregates for sustainable infrastructure development in Bangladesh", Int. J. Geomate, 18, 66, 98-104, 2020.

13. Sapan Kumar Sen, Tapash Chandra Paul, Supria Dutta, MA Matin, **MF Islam**, MA Hakim, "Effect of gamma (γ-) irradiation on the structural, morphological, optical and electrical properties of spray pyrolysis-deposited h-MoO3 thin films" Surfaces and Interfaces (Wiley), 17, 2020.

14. A. A. Momin, M. A. Zubair, **Md. Fakhrul Islam**, A. K. M. Akther Hossain "Enhance magnetoelectric coupling in xLi0.1Ni0.2Mn0.6Fe2.1O4–(1 − x)BiFeO3 multiferroic composites" Journal of Materials Science: Materials in Electronics, vol. 30, pages13033–13046, 2019 (Springer).

15. Rahman, M.M., Matin, M.A., Hossain, M.N., Mozahid, F.A., Hakim, M.A. and **Islam, M.F**., Bandgap engineering of cobalt-doped bismuth ferrite nanoparticles for photovoltaic applications. Bulletin of Materials Science, 2019, 42(4), p.190.

16. Matin, M.A., Hossain, M.N., Ali, M.A., Hakim, M.A. and **Islam, M.F**., Enhanced dielectric properties of prospective Bi0. 85Gd0. 15Fe1− xCrxO3 multiferroics. Results in Physics, 2019, Vol. 12, pp.1653-1659.

17. Matin, M.A., Hossain, M.N., Hakim, M.A. and **Islam, M.F**, Effects of Gd and Cr co-doping on structural and magnetic properties of BiFeO3 nanoparticles. Materials Research Express, 2019, Vol. 6(5), p.055038.

18. Al Mamun, M.A., Noor, M., Ullah, A.A., Hossain, M.S., Abdul, M., **Islam, F**. and Hakim, M.A, Effect of CePO4 on structural, magnetic and optical properties of ceria nanoparticles. Materials Research Express, 2019, Vol. 6(1), p.016102.

19. M. A. Zubair, M. T. Chowdhury, M. S. Bashar, M. A. Sami, **M. F. Islam**, "Thickness dependent correlation between structural and optical properties of textured CdSe thin film", AIP Advances, Vol. 9(4), Article No. 045123, pp. 1-15, 2019 (American institute of physics); https://doi.org/10.1063/1.509659.

20. Chowdhury, M.T., Zubair, M. A., Takeda, H., Hussain, K.M.A. and **Islam, M.F**., Optical and structural characterization of ZnSe thin film fabricated by thermal vapour deposition technique. AIMS MATERIALS SCIENCE, 2017, vol. 4(5), pp.1095-1121.

21. Chowdhury, S. S., Kamal, A. H. M., Hossain, R., Hasan, M., **Islam, M. F**., Ahmmad, B. and Basith, M. A., "Dy doped BiFeO3: A Bulk Ceramic with Improved Multiferroic Properties Compared to Nano Counterparts", Ceramic International, 2017.

22. Islam, M.R., Galib, R.H., Sharif, A., Rizvi, M.H., Zubair, M.A. and **Islam, M.F**., "Correlation of charge defects and morphology with magnetic and electrical properties of Sr and Ta codoped BiFeO 3", Journal of Alloys and Compounds, 688(A), pp 1186-1194 (2016).

23. Hasan, M., **Islam, M.F**., Mahbub, R., Hossain, M.S. and Hakim, M.A., "A soft chemical route to the synthesis of BiFeO3 nanoparticles with enhanced magnetization", Materials Research Bulletin, 73, pp.179-186 (2016).

24. Mazumdar, S.C., Khan, M.N.I., **Islam, M.F**. and Hossain, A.A., "Tuning of magnetoelectric coupling in (1− y) Bi 0.8 Dy 0.2 FeO 3–yNi 0.5 Zn 0.5 Fe 2 O 4 multiferroic composites", Journal of Magnetism and Magnetic Materials, 401, pp.443-454(2016).

25. Hasan, M., Basith, M.A., Zubair, M.A., Hossain, M.S., Mahbub, R., Hakim, M.A. and **Islam, M.F**., "Saturation magnetization and band gap tuning in BiFeO3 nanoparticles via co-substitution of Gd and Mn", Journal of Alloys and Compounds, 687, pp.701-706 (2016).

26. Hasan, M., Hakim, M.A., Basith, M.A., Hossain, M.S., Ahmmad, B., Zubair, M.A., Hussain, A. and **Islam, M.F**.,"Size dependent magnetic and electrical properties of Ba-doped nanocrystalline BiFeO3", AIP Advances, 6(3), p.035314 (2016).

27. Mazumdar, S.C., Khan, M.N.I., **Islam, M.F**. and Hossain, A.A., "Enhanced multiferroic properties in (1–y) BiFeO 3–yNi 0.50 Cu 0.05 Zn 0.45 Fe 2 O 4 composites", Journal of Magnetism and Magnetic Materials, 390, pp.61-69 (2015).

28. Hasan, M., **Islam, M.F**. "Enhancement of Magnetic Properties of Nanocrystalline BiFeO3 Synthesized by a Facile Sol-Gel Auto-Combustion Process", International Journal of Advanced Engineering and Nano Technology, Vol. 2, No. 8 (2015).

29. Hussain, A., Matin, M.A. and **Islam, M.F**. "Fabrication and Characterization of Dielectric Properties of BaTiO3/Ni0.6Zn0.4Fe2O4 Multiphase Multiferroic", International Journal of Advanced Engineering and Nano Technology, 2(12), pp.11-14 (2015).

30. Mahbub, R., Fakhrul, T., **Islam, M.F**., Hasan, M., Hussain, A., Matin, M.A. and Hakim, M.A., "Structural, Dielectric, and Magnetic Properties of Ba-Doped Multiferroic Bismuth Ferrite", Acta Metallurgica Sinica (English Letters), 28(8), pp.958-964 (2015).

31. Mahbub, R., **Islam, M.F.**, "Sintering behavior and microstructure development of Ba2+ doped BiFeO3", International Journal of Innovative Technology and Exploring Engineering, Vol. 3, pp: 97-102 (2014).

32. **Islam, M.F.**, Rizvi, M.H., Khan, T.A. and Hasanuzzaman, M., "Development of Ceramic Candle Filters by Slip Casting Process", Key Engineering Materials (Vol. 608, pp. 85-90). Trans Tech Publications (2014).

33. R. Islam, M. A. Matin, R. Mahbub, M. A. Hakim, **M. F. Islam** "Novel Smart Ferroelectric Functional Material for Application in Transducers", in the proceedings of 16th Electronics Packaging Technology Conference, (EPTC' Dec-2014 by IEEE), Singapore.

34. Rubayyat Mahbub, **Md. Fakhrul Islam** "Sintering behavior and microstructure development of Ba2+ doped BiFeO3", Int. Jrnl. of Innovative Technology and Exploring Engineering, 2014, Vol. 3, 97-102.

35. **Md. Fakhrul Islam**, Rubayyat Mahbub, Adnan Mousharraf "Effect of sintering parameters and Ta2O5 doping on the microstructure and dielectric properties of BaTiO3 based ceramics", in the proceedings of International Conference on Traditional and Advanced Ceramics, Bangkok, Thailand, 2013.

36. **Md. Fakhrul Islam**, M.H. Rizvi, T.A. Khan, M. Hasanuzzaman "Development of Ceramic Candle Filters by Slip Casting Process", in the proceedings of International Conference on Traditional and Advanced Ceramics, Bangkok, Thailand, 2013.

37. Adnan Mousharraf and **Md. Fakhrul Islam** "Effect of Ta2O5 doping on the microstructure and dielectric properties of BaTiO3 based ceramics", International Journal of Automotive and Mechanical Engineering, Vol. 7, page-840-849, January-June 2013.

38. Rubayyat Mahbub, Md. Sazzad Hossain, **Md. Fakhrul Islam** "Structural Characteristics and Dielectric Properties of Tantalum Oxide Doped BaTiO3 Based Materials", Materials Engineering - Materiálovéinžinierstvo Journal, 2013, Vol. 20, 45-54.

39. Shahida Akhter, D. P. Paul, M. A. Hakim, S. Akhter, D. K. Saha, B. Anjuman, and **F. Islam**, "Microstructure and Complex Permeability Spectra of Polycrystalline Cu-Zn Ferrites", Journal of Scientific Research, 4 (3), 551-560 (2012).

40. Rubayyat Mahbub, Takian Fakhrul, **Md. Fakhrul Islam** "Enhanced Dielectric Properties of Tantalum Oxide Doped Barium Titanate Based Ceramic Materials", in the proceedings of 5th BSME international conference on thermal engineering, Dhaka, Bangladesh, 2012.

41. Adnan Mousharraf, Md. Sazzad Hossain and **Md. Fakhrul Islam** "Potential of local clay as raw material for ceramic industries" Journal of Chemical Engineering, IEB, Vol. ChE. 26, No. 1, December 2011.

42. Md. Muktadir Billah, Adnan Mousharraf and **Md. Fakhrul Islam** "The effect of sintering time on the densification of pure nano-crystalline BaTiO3" International Conference on Mechanical Engineering, ICME 11-RT-026, (ICME 2011).

43. Adnan Mousahrraf, Aninda Nafis Ahmed and **Md. Fakhrul Islam** "Effect of calcination and sintering parameters on the formation and microstructure of Ba(Zn1/3Ta2/3)O3 (BZT)" Third international conference on chemical engineering, EA093, (ICChE-2011).

44. T Chowdhury, **Md. Fakhrul Islam**, A Panupat, N Vaneesorn and A Thanaboonsombut "Characterisation of Local clays for High Tension Ceramic Insulators" Proc. of The 2nd International Conference on Structure, Processing and Properties of Materials, SPPM2004,25-27 February 2004, Dhaka, Bangladesh, pp. 534-541.

45. S. M. Hoque, M. A. Choudhury, M. A. Hakim and **M. F. Islam** "Density and grain size dependant magnetic and electrical properties of NiO.8CuO.2 COo.o2FeI.904' " Proc. of The 2nd International Conference on Structure, Processing and Properties of Materials, SPPM2004, 25-27 February 2004, Dhaka, Bangladesh, pp. 705-712.

46. Md. Mahabubar Rahman Shaha, Mominul Huq and **Md. Fakhrul Islam** "Study of Colossal Magnetoresistive Properties in Layered Magnetite (La2_ xBx)BaMn207(OsXsO.5) " Proc. of The 2nd International Conference on Structure, Processing and Properties of Materials, SPPM2004, 25-27 February 2004, Dhaka, Bangladesh, pp. 721-728 .

47. Islam Rashed, Y. Chan and **Islam, M.F**. "Structure-property relationship in high-tension ceramic insulator fired at high temperature" Materials Science & Engineering B, accepted 2 September 2003, article in press.

48. Hoque, S.M., Choudhury, M.A. and **Islam, M.F**. "Density and grain size dependant magnetic and electrical properties of NiO.8CuO.2Fel.904." Submitted in Journal of Nuclear Science and Application on 9th April, 2003.

49. Hoque, S.M., Choudhury, M.A. and **Islam, M.F**. "Characterization of Ni-Cu mixed spinel ferrite" Journal of Magnetism and Magnetic Materials 2002, Vol. 251, 292-303.

50. **Islam M.F**. and Ridley, N. 'Diffusion welding of microduplex stainless steel' Scripta Mat., 1998, Vol. 38(8),1187-1193.

51. **Islam, M. F.**, Pilling, J. and Ridley, N 'Effect of surface finish and sheet thickness on isostatic diffusion bonding of super plastic Ti-6AI-4V' Mat.Sci. Tech., December 1997, Vol. 13, 1045-1050.

52. **Islam, M.F**. and Alam, M.O. 'Interface Characterization of Isostatic Diffusion Welding between Dissimilar Titanium Alloys' Titanium - Extraction and Processing, eds. Mishra, B. and Kipouros, G.J., TMS, Warrendale PA, (1997), 175-186.

53. Haseeb, A.S.M.A., **Islam, M.F**., Alam, M.O. and Tofail, S.A.M. 'Surface Hardening Behaviour of Titanium Alloys in Carburization' Titanium -Extraction and Processing, eds. Mishra, B. and Kipourous, G.J., TMS Warrendale P A, (1997), 163-173.

54. Alam, M.O., **Islam, M.F**. and Helali, M.M 'Diffusion Welding of Ti-3al-2. 5 V by Hiping' Proc. International Conference on Structure, Processing and Properties of Materials, SPPM'97, 15-17 November, 1997, Dhaka, Bangladesh, B53-61.

55. **Islam, M.F**., and Ridley, N. 'Characterization of diffusion bonds formed between Ti-6AI-4Vand Titanium Aluminide Super Alpha-Z.' Mat.Sci. Tech., August 1996, Vol. 12, 623-627.

56. Pilling, J., Ridley, N., and **Islam, M.F**. 'On the modelling of isostatic diffusion bonding in materials: Super plastic Super Alpha-2' Mat.Sci. Eng., 1996, A 205, 72-78.

57. Tofail, S.A.M. and **Islam, M.F**. 'Alumina fibre: Formation in Jutje substrate' Proc. 3rd. Annual Paper Meet, Mechanical Engineering Division, Institution of Engineers', Bangladesh, Chittagong, 1996, 22-27.

58. Alam, M.O. and **Islam, M.F**. 'Study on isostatic diffusion welded samples of dissimilar titanium alloys' Proc. 3rd. Annual Paper Meet, Mechanical Engineering Division, Institution of Engineers', Bangladesh, Chittagong, 1996, 330-337.

59. **Islam, M.F**. and Haque M.M,. 'Effect of process variables on structure and properties of centrifugally cast Brass and Aluminium' Proc. and. Annual Paper Meet. Mechanical Engineering Division, Institution of Engineers', Bangladesh, 20-23 September 1995, Rajshahi, 35-41.

60. **Islam, M.F**. 'Diffusion bonding of super plastic Titanium Aluminide' Proc. 2nd Annual Paper Meet. Mechanical Engineering Division, Institution of Engineers', Bangladesh, 20-23 September 1995, Rajshahi, 194-204.

61. Ridley, N. and **Islam, M.F**. 'Isostatic diffusion bonding of microduplex alloys' Hot Isostatic Pressing'93, ed. Delaey, L. and Tas, H., Elsevier Science RV., (1994), 325-332).

62. Ridley, N., **Islam, M.F**. and Pilling, J. 'Superplasticity and diffusion bonding of microduplex Super Alpha-2' Structural Intermetallics, ed. Darolia, R., Lewandowski, J.J., Liu , C.T. et al., TMS, Warrendale PA, (1993), 63-68.

63. Ridley, N., **Islam, M.F**. and Pilling, J. 'Isostatic diffusion bonding studies on superplastic Ti-6Al-4V and Super Alpha-2 intermetallic alloy'. Titanium' 92 - Science and technology, ed. Froes, F. H. and Caplan, I.L., TMS, 2, (1993), 1625-1632.

64. **Islam, M.F**. and Haque, M.M. 'Structure and properties of centrifugally cas a-Brass' Mech. Engg. Res., Vol. 12, 1989, 31-36.

International/National conference papers and Proceedings:

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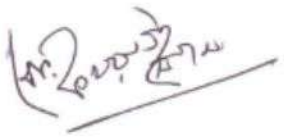

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