Dr. Jiten Ghosh, Pr. Scientist, XRD and SEM Units/ Materials Characterization and Instrumentation Div.(MCID)

List of publications in Journal:

1. "Insight into the Spontaneous Breakdown of 'Toughened Glass: From nano- to macroscale" Ripan K. Biswas, Jiten Ghosh, Stefano Nannarone, Konstantin Koshmak, P.M.G.Nambissan, Maudud Ahmed, Shubharaj Mukherjee, Alokmay Datta and Muraleedharan Kuttanellore published in **Materialia 12 (2020) 100776.**

2. "Study of Short-range Ordering in Amorphous and Nanocrystalline Materials from Laboratory based Pair Distribution Function (LPDF)" Ripan K. Biswas, Jiten Ghosh and K. Muraleedharan, i**n Transactions of the Indian Ceramic Society 79 (3) (2020) 158-165**

3. **"**Synthesis of Calcium based nano powders for application in conservation and restoration of heritage mortar **"** Dipak Kr. Chanda, Prosenjit Khan, Netai Dey, Mousumi Majumder, Ashim K. Chakraborty' Bharat Bhushan Jha, Jiten Ghosh published in **Journal of S N Applied Sciences (2020) 2:340, doi.org/10.1007/s42452-020-2138-0**

4. **"**Modelling of Nanoindentation Behaviour in MgO doped Alumina" Payel Maiti, Jiten Ghosh and Anoop K. Mukhopadhyay in **Ceramics International (Accepted) (2020).**

5. "Bio-tribological Response of Duplex Surface Engineered SS316L for Hip-implant Application" A. Samanta, A. Joseph, A. K. Mukhopadhyay, B. Kundu, D. Kr. Chanda, G. Jhala, J. Ghosh, M. Das, R. Rane, S. Bysakh and S. Mukherjee published in **Applied Surface Science (2020), 507, Article No. 145009.**

6. "Study of non-centrosymmetric to centrosymmetric structural transformation in Zr-doped Barium Titanate" Md. S. Islam and J. Ghosh published **in Phase Transitions (2020) doi.org/10.1080/01411594.2020.1731509.**

7. "Novel Layered GO/Mg(OH)2 Nanocomposites for Detection of Cd and Pb ions" Payel Maiti, Pradip Sekhar Das, Jiten Ghosh and Anoop Kumar Mukhopadhyay, published **in Sensors & Actuators: A. Physical (2020) 111803.**

8. "Synthesis of Structure Determination of Calcium Silicate-Cellulose Nanograss Biocomposite" Niloromi Biswas, Aniruddha Samanta, Sanchali Mitra, Ripan K. Biswas, Soumik Podder, Ambarish Sanyal, Jiten Ghosh and Anoop K. Mukhopadhyay published in **Journal of the American Ceramic Society (2020) 103 2868-2879.**

9. "New Observations and Critical Assessments of Incipient Plasticity Events and Indentation Size Effect in Nanoindentation of Ceramic Nanocomposites**"** Payel Maiti,

Jiten Ghosh and Anoop Kumar Mukhopadhyay published **in Ceramic International 46 (2020) 3144-3165.**

10. **"**Study of Carbonation Characteristics of nano-structured Barium Titanante from high temperature XRD and Pair Distribution Function (PDF)" authored by Md. S. Islam, R.K. Biswas and J. Ghosh, **Micro and Nano Letters, Vol. 14, Issue 11 (2019) 1204-1207**

11. "A critical note on nanoscale plasticity in 20 ZTA ceramics" authored by Payel Maiti, Manjima Bhattacharya, Pradip S Das, Jiten Ghosh and Anoop K. Mukhopadhyay **in Ceramic International 45 (2019) 25034-25043.**

12. **"**Au nanoparticle-decorated Aragonite Microdumbbells for enhanced antibacterial and anticancer activities" Aniruddha Samanta,Soumik Podder, Murali Kumarasamy, Chandan Kumar Ghosh, Debrupa Lahiri, Partha Roy, Swarupananda Bhattacharjee, Jiten Ghosh, Anoop Kumar Mukhopadhyay in **Journal of Materials Science & Engineering C, 103 (2019) 109734.**

13. **"**Illite crystallinity index from the Mesoproterozoic sedimentary cover of the Kaladgi basin, southwestern India: Implications on crustal depths of subsidence and deformation" authored by M. K. Mukherjee, K. Modak and J. Ghosh in **Journal of Earth System Science, (2019) 128 (4) Art No.101/Art No.112**

14. "Micro Pop-in issues in nanoindentation behaviour of 10 ZTA ceramics" authored by Payel Maiti, Ammar Eqbal, Manjima Bhattacharya, Pradip Sekhar Das, Jiten Ghosh and Anoop Kumar Mukhopadhyay **in Ceramic International 45 (2019) 8204-8215.**

15. "Unique Microstructure of 3D self-assembled Mg(OH)2 nanoparticles for Methylene Blue Degradation in Presence of Direct Sun Light" by Pradip Das; Soumitra Das; Jiten Ghosh & Anoop K Mukhopadhayay**. in Trans. Ind. Ceram. Soc., vol. 77, no. 4 (2018) pp. 226-234**

16. "Evaluation of temperature-dependent microstructural and nanomechanical properties of phase pure V_2O_5" authored by Dipta Mukherjee, Dyuman Das, Arjun Dey, Awadesh Kumar Mallik Jiten Ghosh, Anand Kumar Sharma, Anoop Kumar Mukhopadhyay ***in*** **Journal of Sol-Gel Science and Technology 87 (2), (2018) 347-361**

17. "Phase pure, high hardness, biocompatible Calcium Silicates with excellent anti-bacterial and biofilm Inhibition efficacies for endodontic and orthopedic applications " authored by Niloromi Biswas, Aniruddha Samanta, Soumik Podder, Chandan Kumar Ghosh, Jiten Ghosh, Mitun Das, Awadesh Mallik and Anoop K. Mukhopadhyay **in Journal of the Mechanical Behavior of Biomedical Materials** 86 **(2018) 264–283.**

18. "Short of Short range Structure of Amorphous Silica from PDF using Ag Radiations in Laboratory XRD System, RAMAN and NEXAFS" Ripan K. Biswas, Prosenjit Khan, Smita Mukherjee, Anoop K. Mukhopadhyay, **Jiten Ghosh**, K. Muraleedharan in **Journal of Non-Crystalline Solids 488 (2018) 1-9.**

19. "Nano and micro tribological behaviours of plasma nitrided Ti6Al4V alloys" authored by Aniruddha Samanta, Manjima Bhattacharya, Itishree Ratha, Himel Chakraborty, Jiten Ghosh, Sandip Bysakh, Monjoy Sreemany, Ramkrishna Rane, Alphonsa Joseph, Subroto Mukherjee, Biswanath Kundu, Mitun Das and Anoop Mukhopadhyay in **Journal of the Mechanical Behavior of Biomedical Materials 77 (2018) 267-294.**

20. "Tuning the Band gap in Titanium Dioxide Thin Films by Surfactant Medicated confinement and Patterning of Gold Nanoparticles" Smita Mukherjee, Pradip Sekhar Das, Madhumita Choudhuri, Alokmay Datta, Jiten Ghosh, Biswajit Saha, Konstantin Koshmak, Stefano Nannarone, and Anoop Kr. Mukhopadhyay, **Journal of Physical Chemistry C (2017) 121, 21311−21323**

21. "RGO / Mgo hybrid Nanocomposites with High Specific Capacitance", Pradip Sekhar Das, Suvajit Bakuli, Indranil Biswas, Awadesh Mallik, Arjun Dey, **Jiten Ghosh** and Anoop Kumar Mukhopadhyay **in Ceramic Internationals (Accepted) (2017).**

22. "Band Gap Tuning in Gold Nanoparticle Decorated TiO_2 Films: Effect of Au Nanoparticle Concentration" Smita Mukherjee, Sreeanta Chakraborty, Aniruddha Samanta, Jiten Ghosh and Anoop Mukhopadhyay **Materials Research Express 4 (2017) 065016**

23. "ROS Mediated High Anti-Bacterial Efficacy of Strain Tolerant Layered Phase Pure Nano-Calcium Hydroxide" authored by Aniruddha Samanta, Soumik Podder, Chandan Kumar Ghosh, Manjima Bhattacharya, Jiten Ghosh, Awadesh Kumar Mallik, Arjun Dey, Anoop Kumar Mukhopadhyay **Journal of the Mechanical Behavior of Biomedical Materials 72 (2017) 110–128**

24. **"**Influence of crystal structure on dielectric properties of Barium Strontium Titanate during high energy ball milling" S. Chowdhury, Mathan Kr. T., S. Sen, A. K. Mukhopadhyay and **J. Ghosh** in **Materials today: Proceedings 4 (2017) 5631–5639**.

25. "Very high Cu(II) Adsorption efficacy of designed nano-platelet $Mg(OH)_2$ assembly" by Pradip Sekhar Das, Suvajit Bakuli, Aniruddha Samanta, Ashok Kumar Mondal, Jiten Ghosh Arjun Dey and Anoop Kumar Mukhopadhyay **in Journal of Material Research Express 4 (2017) 025025.**

26. "High Strain Rate Dynamic Compressive Behaviour of Al6061-T6 alloys" S. Acharya, R. K. Gupta, J. Ghosh, S. Bysakh, K. S. Ghosh, D. K. Mondal and A. K. Mukhopadhyay in **Materials Characterization 127 (2017) 185–197.**

27. "Nanotribological response of a plasma nitride bio-steel" Aniruddha Samanta, Himel Chakraborty, Manjima Bhattacharya, **Jiten Ghosh**, Monjoy Sreemany, Sandip Bysakh, Ramkrishna Rane, Alphonsa Joseph, Ghanshyam Jhala, Subroto Mukherjee, Anoop K. Mukhopadhyay in **Journal of the Mechanical Behavior of Biomedical Materials 65 (2017) 584–599.**

28. “Analysis of the dielectric relaxation and ac conductivity behavior of polyvinyl alcohol (PVA) - Cadmium selenide (CdSe) nanocomposite films” Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh** and Ajit Kumar Meikap in **Polymer Composites Vol. 38 (2017) 288-298. DOI: 10.1002/pc.23586.**

29. “Safe and simple detection of sparse hydrogen by Pd-Au alloy/air based 1D photonic crystal sensor" Sanchali Mitra, Tushar Biswas, Rik Chattopadhyay, **Jiten Ghosh**, Sandip Bysakh, and Shyamal Bhadra in **Journal of Applied Physics 120 (2016) 173102.**

30. “Modelling of measured optical properties of Pd-Au alloy ultra this film for room temperature hydrogen sensing”, Sanchali Mitra, **Jiten Ghosh**, Sandip Bysakh, Shyamal K. Bhadra in **Journal Physica Status Solidi A: Applications and Materials Science A 213, No. 9, (2016) 2406–2413 / DOI 10.1002/pssa.201600051**

31. “Methotrexate intercalated CaAl layered double hydroxide nanohybrid for drug delivery” Manjusha Chakraborty, Sayantan Ray, Suman Saha, **Jiten Ghosh**, Swapan Kumar Ghosh, Manoj K Mitra, Jui Chakraborty **in Advanced Science, Engineering and Medicine, Vol. 8, No. 6 (2016) 450 -459.**

32. “Low Strain Rate compressive Failure Mechanism of a Coarse Grain Alumina” Manjima Bhattacharya, Srikanta Dalui, Nitai Dey, Sandip Bysakh, **Jiten Ghosh** and Anoop Kumar Mukhopadhyay **in Ceramics International, 42 (2016) 9875-9886.**

33. “Synthesis of mixed Calcite-Calcium Oxide nanojasmine flowers” Aniruddha Samanta, Dipak Kr. Chanda, Pradip Sekhar Das, **Jiten Ghosh**, Arjun Dey, Sukhen Das and Anoop Kumar Mukhopadhyay in **Ceramic International 42 (2016) 2339 -2348.**

34. "Synthesis of nano calcium hydroxide in aqueous medium" Aniruddha Samanta, Dipak Kr. Chanda, Pradip Sekhar Das, **Jiten Ghosh**, Anoop Kumar Mukhopadhyay and Arjun Dey **in Journal of American Ceramic Society, 99 [3] (2016) 787-795.**

35. “The study of formation mechanism of the ordered mesoporous silica from low angle X-ray scattering experiments”, Sayyed Naweed Emamy, Debasis Gupta, Anoop K. Mukhopadhyay and **Jiten Ghosh** in **Advanced Science Letters**, Volume 22, Number 1 (2016) 197-201.

36. “Nanomechanical responses of human hair”, Aniruddha Samanta, Manjima Bhattacharya, Srikanta Dalui, Megha Acharya, Pradip Sekhar Das, Dipak K. Chanda, Saikat Deb Acharya, S Kalidas Sivaraman, Shekhar Nath, Ashok K. Mandal, **Jiten Ghosh** and Anoop Kumar Mukhopadhyay **in Journal of the Mechanical Behavior of Biomedical Materials 56 (2016) 229 -248.**

37. "Effect of mechanical milling on the structural and dielectric properties of $BaTiO_3$ powders" Samya Neogi, Ujjal Chowdhury, Ashim Kumar Chakraborty and ***Jiten Ghosh*** **in Micro and Nano Letters, Vol. 10, Issue 2 (2015) 109-114.**

38. "Electrical transport properties of consolidated ZnSe quantum dots at and above room temperature" Subhojyoti Sinha, Sanat Kumar Chatterjee, ***Jiten Ghosh*** and Ajit Kumar Meikap **in Current Applied Physics 15 (2015) 555 -562.**

39. "Electrical transport properties of polyvinyl alcohol- selenium nanocomposite films at and above room temperature" Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh** and Ajit Kumar Meikap **in Journal of Material Science 50(2015) 1632-1645**

40. "Studies on Synthesis and Properties of Magnesia Refractory Aggregates prepared from Indian Magnesite through Plasma Fusion" Ananya Saha, Saroj. K. Singh, Arup Ghosh, ***Jiten Ghosh***, Manas Kamal Halder **in Ceramics International 41(2015) 2876-2883.**

41. "Studies on Densification, Mechanical, Micro Structural-Properties relationship of refractory aggregates prepared from Indian magnesite by changing lime-silica ratio" Chandrima Ghosh, Arup Ghosh, Himansu Sekhar Tripathi, ***Jiten Ghosh*** and Manas Kamal Halder in **Ceramics International 40 (2014) 16791 -16798**.

42. "Room temperature multiferrocity in orthorhombic $LuFeO_3$", Ujjal Chowdhury, Sudipta Goswami, Dipten Bhattacharya, ***Jiten Ghosh***, Soumen Basu and Samya Neogi in **Appl. Phys. letter 105, 052911 (2014) 1- 4.**

43. "Characterization of microwave plasma CVD grown polycrystalline diamond (PCD) coatings for advanced technological applications" Awadesh Kumar Mallik, Nandadulal Dandapat, Shrishendu Chakraborty, Ashok Kumar Mondal, **Jiten Ghosh**, Kaushik Biswas, Manju Unnikrishnan, Sandip Bysakh, Vamsi Krishna Balla **in Processing and Application of Ceramics 8 [2] (2014) 69-80.**

44. "Dielectric relaxation and ac conductivity behavior of polyvinyl alcohol- HgSe quantum dot hybrid films" Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh** and Ajit Kumar Meikap in **J. Phys D: Applied Physics 47 (2014) 275301.**

45. **"**Property mapping of polycrystalline diamond coating over large area", Awadesh Kumar Mallik, Sandip Bysakh, Monjoy Sreemany, Sudakshina Roy, **Jiten Ghosh,** Soumyendu Roy, Joana Catarina Mendes, Jose Gracio, Someswar Datta **Journal of Advanced Ceramics 3(1) (2014) 56-70**.

46. "Anomalous electrical transport properties of CdSe quantum dots at and below room temperature" Subhojyoti Sinha, Sanat K Chatterjee, **Jiten Ghosh**, Ajit K Meikap in **Physica B 438 (2014) 70-77.**

47. "The influence of metallic antioxidants on some critical properties of magnesia –carbon refractory", A. Ghosh, S. Jena, H. S. Tripathi, M. K. Haldar, V. P. Reddy, **J. Ghosh**,

S.K. Das, A. K. Rama Rao and P. Ray in **Refractories World Forum 5 [4] (2013) 69-74.**

48. "Multiphase transformation and hybrid nanostructure under non equilibrium and equilibrium condition during high energy milling of $BaTiO_3$ powders**" Jiten Ghosh**, Sandip Bysakh and Sujata Mazumder **in Phase Transitions, Vol. 87, No. 4 (2014) 325-335.**

49. "The Effect of Basic Oxygen Furnace Slag and Fly Ash Additions in Triaxial Porcelain Composition: Phase and Micro Structural Evolution", S. K. Das, M. Pal, **J. Ghosh,** K. V. Pathi and S. Mondal **Transactions of the Indian Institute of Metals, Vol. 66, Issue 3 (2013) 213-220.**

50. "Comparative study on the freezing temperature synthesised CdSe nanoparticles before and after annealing", Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh** and Ajit Kumar Meikap **Micro and Nano Letters, Vol. 8, Issue 1 (2013) 35-38.**

51. "Semiconducting selenium nanoparticles: structural, electrical characterization and formation of a back -to- back Schottky diode device" Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh** and Ajit Kumar Meikap in **Journal of Applied Physics 113, 123704 (2013) 1-8.**

52. **"**Structural characterization and observation of variable range hopping conduction mechanism at high temperature in CdSe quantum dot solids" Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh** and Ajit Kumar Meikap in **Journal of Applied Physics 113, 093703 (2013) 1-10.**

53. "Glass-ceramic glazes for future generation floor tiles", Sumana Ghosh, Kalyan Sundar Pal, Nandadulal Dandapat, **Jiten Ghosh** and Someswar Datta in **Journal of European Ceramic Society 33 (2013) 935-942.**

54. **"**Microstructural and mechanical characterization of biomorphic SiC ceramics synthesized from coir fibreboard perform" Anwesha Maity, Dipul Kalita, Nijhuma Kayal, **Jiten Ghosh**, Tridip Goswami, Omprakash Chakrabarti and Paruchuri Gangadhar Rao in **Materials Science & Engineering A 565 (2013) 72-79.**

55. "Structural phase transitions during high energy ball milling of $BaTiO_3$**" J. Ghosh** and S. Mazumder in **Phase Transitions, Vol. 85, No.8, August (2012) 694-707.**

56. "Iron ore tailing: A waste material used in ceramic tile compositions as alternative source of raw materials", S.K. Das, **J. Ghosh,** A. K. Mandal, N. Singh and S. Gupta in **Transaction, Indian Ceramic Society. 71(1) (2012) 17-22.**

57. **"**A facile synthetic strategy for Mg-Al layered double hydroxide material as nano carrier for methotrexate" M. Chakraborty, S. Dasgupta, S. Sengupta, J. Chakraborty, S. Ghosh,

J. Ghosh, M. Mitra, A. Misra, T. K. Mandal and D. Basu **in Ceramics International 38 (2012) 941-949.**

58. "Evaluation of iron ore tailings for the production of building materials", **J. Ghosh**, A. K. Mondal, N. Singh and S. K. Das, in **Industrial Ceramics, Vol.31, 2 (2011) 115-119.**

59. **"**Electron Microscopy of Shock Deformation in Alumina", A. K. Mukhopadhyay, K. D. Joshi, A. Dey, R. Chakraborty, A. K. Mandal, A. Rav, , **J. Ghosh**, S. Bysakh, S. K. Biswas and S. C. Gupta, **in Ceramics International 37 (2011) 2365-2376.**

60. **"**Stepwise formation of crystalline apatite in the biomimetic coating of surgical grade SS 316 L substrate: A TEM analysis", J. Chakraborty, N. Daneu, A. Rečnik M. Chakraborty, S. Dasgupta, **J. Ghosh,** S. Majumdar and D. Basu , in **Journal of the Taiwan Institute of Chemical Engineers Vol. 42, issue 4 (2011) 682-687.**

61. "Effect of activation on boron nitride coating on carbon fiber", M. Das, **J. Ghosh** and A. K. Basu**, in Ceramics International 36 (2010) 2511–2514**

62. **"**Nanoindentation of shock deformed alumina", A. K. Mukhopadhyay, K. D. Joshi, A. Dey, R. Chakraborty, A. Rav, A. K. Mandal, **J. Ghosh**, S. Bysakh, S. K. Biswas and S. C. Gupta, **in Materials Science & Engineering A, Vol. 527, issue 24-25 (2010) 6478-6483.**

63. "Enhanced blue luminescence in transparent oxyfluoride glass ceramic containing Pr^{3+}:BaF_2 nano-crystals", K. Biswas, A. D. Sontakke, **J. Ghosh** and K. Annapurna in **J. Am. Ceram. Soc., 93 (4) (2010) 1010-1017**

64. "Effect of fly ash on the physico-chemical and mechanical properties of a porcelain composition", T. K. Mukhopadhyay, S. Ghosh, **J. Ghosh**, S. Ghatak and H. S. Maiti in **Ceramics International, 36 (2010) 1055-1062**

65. "Ferromagnetism in transparent Mn(II) –doped Indium Tin Oxide films prepared by sol-gel coating", S. Kundu, D. Bhattacharya, **J. Ghosh**, P. Das and P. K. Biswas, in **Chemical Physics Letters, 469 (2009) 313-317.**

66. **"**Development of multiphase B-Si-C ceramic composite by reaction sintering", D. Mallick, T.K.Kayal, **J.Ghosh**, O.P.Chakrabarti, S.Biswas and H.S.Maiti, in **Ceramics International (2009), Volume 35, Issue 4, May 2009, Pages 1667-1669**

67. "Microstructure characterization of Titanium-base Aluminium alloys by X-ray diffraction using Warren-Averbach and Rietveld method", **J. Ghosh**, S. K. Chattopadhyay, A. K. Meikap and S. K. Chatterjee, in **Journal of Alloys and Compounds 453 (2008) 131-137.**

68. "Microstructural characterization of amorphous and nanocrystalline Boron Nitride prepared by high energy ball milling", **J. Ghosh**, S. Mazumdar, M. Das, S. Ghatak, A. K. Basu, in **Materials Research Bulletin, Vol. 43 (2008) 1023-1031**

69. "Study of microstructure in Vanadium-Palladium alloys by X-ray diffraction technique", **J. Ghosh**, S. K. Chattopadhyay, A. K. Meikap and S. K. Chatterjee, P. Chatterjee, in **Bulletin of Materials Science (Indian Academy of Sciences) , Vol. 30, No. 5, October (2007) 447-454**.

70. "Microstructural studies on variation of defect parameters in Zr-Sn alloys and their transition with interchange of solvent and solute in Zr-Ti and Ti-Zr alloy systems by modified Rietveld method and Warren-Averbach method", **J. Ghosh**, S. K. Chattopadhyay, A. K. Meikap and S. K. Chatterjee, in **Bulletin of Materials Science (Indian Academy of Sciences), Vol. 29, No. 4, August (2006) 385-390**

71. "Study of microstructural defect parameters in Vanadium-Aluminium alloys using Warren-Averbach method and modified Rietveld technique", **J. Ghosh**, S. K. Chattopadhyay, A. K. Meikap, S. K. Chatterjee and S. K. Pradhan, in **Japanese Journal of Applied Physics, Vol. 44, No 9A (2005) 6678-6682**.

72. "Studies of lattice imperfections in deformed Aluminium-based Lithium alloys by X-ray diffraction", **J. Ghosh**, P. Mukherjee, S. K. Chattopadhyay, S. K. Chatterjee, A. K. Meikap and P. Barat, in **Metallurgical and Materials Transactions A, Vol. 35 A, October (2004) 3319-3322.**

Symposium/Conference Publications:

1. "**Indentation Size Effect in nanoindentation Behaviour of TiO_2 doped alumina**" Payel Maiti, Jiten Ghosh and Anoop Mukhopadhyay presented in National Seminar on " Propelling Innovations in Glass and Ceramics for Atmanirbhar Bharat" organized by Indian Ceramic Society, Kolkata Chapter and CSIR-CGCRI, Kolkata during 11-12th Dec., 2020. **CL-13**

2. **"Study of Short-range Structure in Sodalime Silicate Glass from Atomic Pair Distribution Function (PDF)& Near Edge X-ray Absorption Fine Structure (NEXAFS)"** Ripan K. Biswas**,**Yimin Mijiti, Smita Mukherjee, Atul Khanna, Nitin Lobo, Jiten Ghosh, Alokmay Datta and K. Muraleedharan, presented in National Seminar on " Propelling Innovations in Glass and Ceramics for Atmanirbhar Bharat" organized by Indian Ceramic Society, Kolkata Chapter and CSIR-CGCRI, Kolkata during 11-12th Dec., 2020. **CL-01**

3. *"***New approach to study local and short range structure in amorphous and nanocrystalline materials from laboratory based Pair Distribution Function using Ag radiation** "Ripan K. Biswas, Jiten Ghosh and K. Muraleedharan, presented in 10th International Student Seminar on Metallurgy and Material Science /Behind The Teacher's Desk-eBTTD 2020 organized by Indian Institute of Metals, Jamshedpur Chapter in association with Tata Steel Limited and CSIR-NML on 28th August, 2020.

4. *"***Characterization of 'Toughened Glass' by Pair Distribution Function (PDF) and NEXAFS to explain its sudden breakdown**" authored by Ripan K. Biswas, Jiten Ghosh, Konstantin Koshmak, Stefano Nannarone, Alokmay Datta, K. Muraleedharan, presented in 2nd Indian Materials Conclave and 31st AGM of MRSI organized by Material Research Society of India, Kolkata Chapter during 11th to 14th February, 2020 at CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata. **Poster No: CP-051 in Book of Abstract.**

5. *"*Average and Atomic-Scale Structure of Cerium doped Barium Titante (BaCei x Ti 1-x O 3 ; x=0.02, 0.1) by X-ray Diffraction and the Atomic Pair Distribution Function Technique" authored by *Sahanoor Islam, and J. Ghosh,* presented in 2nd Indian Materials Conclave and 31st AGM of MRSI organized by Material Research Society of India, Kolkata Chapter during 11th to 14th February, 2020 at CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata. **Poster No: CP-061 in Book of Abstract.**

6. "Indentation size effect and nanoscale plasticity in alumina sintered with varying amounts of MgO" authored by Payel Maiti, Jiten Ghosh and Anoop Kumar Mukhopadhyay presented in 2nd Indian Materials Conclave and 31st AGM of MRSI organized by Material Research Society of India, Kolkata Chapter during 11th to 14th February, 2020 at CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata. **Poster No: CP-130 in Book of Abstract.**

7. "Observation Of High Temperature and High Pressure Phases In Silica Nanofilms at Ambient Conditions" authored by Subrata Pramanik, Pradip Sekhar Das, Ripan Kumar Biswas, Jiten Ghosh and Alokmay Datta" presented in 2nd Indian Materials Conclave and 31st AGM of MRSI organized by Material Research Society of India, Kolkata Chapter during 11th to 14th February, 2020 at CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata. **Poster No: CP-122 in Book of Abstract.**

8. "Study of structural changes of Cerium doped Barium Titante (BCT) by X-ray Diffraction, Atomic Pair Distribution Function and Scanning electron microscope" authored Sahanoor Islam, and Jiten Ghosh, Presented in 12th Asia -Pacific Microscopy Conference organized by Electron Microscopy Society of India at Hyderabad International Convention Centre during 3rd - 7th February, 2020. **Page-402, Poster No – P-0100 in Book of Abstract.**

9. "Study of average and local atomic-scale structure in nanocrystalline Sr doped Barium Titanateusing Electron microscopy and Pair Distribution Function" authored Ripan K.

Biswas, Jiten Ghosh and K. Muraleedharan, Presented in 12th Asia -Pacific Microscopy Conference organized by Electron Microscopy Society of India at Hyderabad International Convention Centre during 3rd - 7th February, 2020. **Page-466, Poster No – P-0102 in Book of Abstract.**

10. "Study of short range structure in Borosilicate glass from Atomic Pair Distribution Function (PDF) & Near Edge X-ray Absorption Fine Structure (NEXAFS)" authored by Ripan K. Biswas, Smita Mukherjee, Jiten Ghosh, Alokmay Datta and K. Muraleedharan and presented in **64th DAE Solid State Physics Symposium (DAE-SSPS 2019)** organized by Bhaba Atomic Research Center, Mumbai during 18th to 22nd December, 2019 at Indian Institute of Technology, Jodhpur, Rajasthan, India.**Page-174, Abstract No – e0038 in Book of Abstract.**

11. "**Incipient plasticity in alumina sintered with varying amounts of MgO**." authored by Payel Maiti, Bishnu Deb Bhattacharjee, Jiten Ghosh and Anoop Kumar Mukhopadhyay & Presented in the International Conference on Current Trends in Materials Science and Engineering (CTMSE-2019) organized by S. N. Bose National Centre for Basic Sciences, Kolkata during 18th - 20th July 2019. **Page-185, Abstract No – 138 in Book of Abstract.**

12. "Synthesis and Characterization of Ca(OH)2 nanopowders for the restoration of Heritage Structures." authored by Dipak Kr. Chanda, Pradip S. Das, Prosenjit Khan, Netai Dey, Jiten Ghosh# & Bharat Bhusan Jha & Presented in the National Conference on Recent Developments in Nanoscience & Nanotechnology (NCRDNN-2019) organized by School of Materials Science and Nanotechnology, Jadavpur University, Kolkata during 29th - 31st January, 2019. **Page-128, Abstract No – T09_33 in Book of Abstract.**

13. "Flower like Layered GO/$Mg(OH)_2$ nanocomposites and photo luminescence after adsorption of Cd^{+2} and Pb^{+2}," authored by Payel Maiti, Pradip Sekhar Das, Awadesh Kumar Mallik, Jiten Ghosh and Anoop Kumar Mukhopadyay & Presented in the National Conference on Recent Developments in Nanoscience & Nanotechnology (NCRDNN-2019) organized by School of Materials Science and Nanotechnology, Jadavpur University, Kolkata during 29th - 31st January, 2019 **Page-58, Abstract No – T02_04 in Book of Abstract**

14. "Study of Structural Transformation during Thermal Decomposition in Aluminum Hydroxide by Pair Distribution Function using Ag radiation in Laboratory XRD" authored by Ripan K. Biswas, Anoop K. Mukhopadhyay, Jiten Ghosh, K. Muraleedharan & Presented in the International Conference on Nanotechnology (ICN:31-2017) at IIT-Roorkee during 6th to 8th December, 2017 Organized by Department of Mechanical & Industrial Engineering, IIT-Roorkee, India. **Page-197, Abstract No-575 in Book of Abstract**

15. "High Temperature X-ray diffraction Study on Phase Transformation and lattice thermal expansion of Zirconia" authored by Sahanoor Islam, Siddharth Senapati, Anoop K.

Mukhopadhyay and **Jiten Ghosh &** Presented in the International Conference on Nanotechnology (ICN:31-2017) at IIT-Roorkee during 6th to 8th December, 2017 Organized by Department of Mechanical & Industrial Engineering, IIT-Roorkee, India. **Page-95, Abstract No-589 in Book of Abstract**

16. "**Laboratory X-ray Diffractometer for PDF experiments using Ag radiation**" authored by Ripan Kumar Biswas, Prosenjit Khan, Anoop Kumar Mukhopadhyay, **Jiten Ghosh** and K. Muraleedharan in *24th Congress and General Assembly of the International Union of Crystallography (IUCr) held at Hyderabad International Convention Centre during 21 to 28th August, 2017.*

17. "**Study of atomic scale structure of nanocrystalline $Ba_{0.8}Sr_{0.2}TiO_3$ as prepared by high energy ball milling using advanced X-ray based techniques and electron microscopy"** authored by Ripan Kumar Biswas, Anoop Kumar Mukhopadhyay, **Jiten Ghosh** and Muraleedharan Kuttanellore in the International Conference on Electron Microscopy and Allied Techniques and XXXVIII Annual Meeting of Electron Microscope Society of India jointly organized by Indira Gandhi Centre for Atomic Research, Kalpakkam during 17-19th July, 2017 *at Chennai, India.* **Page 394, PS-0385 in Book of Abstract**

18. "CO_2 sensing Characteristics of nano structured $BaTiO_3$ perovskite Prepared by high energy ball milling" authored by Md Sahanoor Islam, Ashim Kumar Chakraborty, Anoop Kumar Mukhopadhyay, and Jiten Ghosh in ***Fourth International Symposium on Semiconductor Materials and Devices (ISSMD-4)*** *organized by* School of Materials Sciences & Nanotechnology, Jadavpur, at Jadavpur University, Kolkata, West Bengal, India during 8th to 10th March, 2017 **Page 156 in Book of Abstract.**

19. "Methylene Blue Degradation by 3D Self-assembly Mg $(OH)_2$ nanoparticles in presence of direct Sun light" authored by Pradip Sekhar Das, **Jiten Ghosh** and Anoop Kumar Mukhopadhyay in 2nd ***International Conference*** on Alumina and Other Functional Ceramics (AOFC-2017) organized jointly by Indian Ceramic Society & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 15th to 17th February, 2017 at CSIR-CGCRI, Kolkata, India. **Poster No-24 in Book of Abstract.**

20. " High Anti-Bacterial efficiency of Strain Tolerant Layered Phase Pure Nano-Calcium Hydroxide" Aniruddha Samanta, Soumik Podder, Chandan Kumar Ghosh, Manjima Bhattacharya, **Jiten Ghosh**, Awadesh Kumar Mallik, Arjun Dey, Anoop Kumar Mukhopadhyay in 2nd ***International Conference*** on Alumina and Other Functional Ceramics (AOFC-2017) organized jointly by Indian Ceramic Society & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 15th to 17th February, 2017 at CSIR-CGCRI, Kolkata, India. **Poster No-13 in Book of Abstract.**

21. "Nanotribological responses of Novel Biomedical Plasma Nitrided Ti6Al4V implants" authored by Anoop Mukhopadhyay, Aniruddha Samanta, **Jiten Ghosh**, Sandip Bysakh, Monjoy Sreemany, Ramkrishna Rane, Alphonsa Joseph, Subroto Mukherjee,

Biswanath Kundu, Mitun Das in 2nd ***International Conference*** on Alumina and Other Functional Ceramics (AOFC-2017) organized jointly by Indian Ceramic Society & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 15th to 17th February, 2017 at CSIR-CGCRI, Kolkata, India. **Poster No-11 in Book of Abstract**

22. **"**Synthesis of a Calcium Silicate Base Material for Endodontic Application", Nilormi Biswas,Aniruddha Samanta, **Jiten Ghosh** and Anoop Kumar Mukhopadhyay in 2nd ***International Conference*** **on Alumina and Other Functional Ceramics** (AOFC-2017) organized jointly by Indian Ceramic Society & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 15th to 17th February, 2017 at CSIR-CGCRI, Kolkata, India. **Poster no: 14 in Book of Abstract.**

23. "Influence of crystal structure on dielectric properties of Barium Strontium Titanate during high energy ball milling**"** by S. Chowdhury, Mathan. T. Kumar, S. Sen, A. K. Mukhopadhyay and **J. Ghosh,** presented in ***International Conference on Multifunctional Materials for Device Application (ICMDA - 2016)*** organized by Department of Physics, National Institute of Technology-Patna, India during 26th to 28th October, 2016 at Department of Physics, National Institute of Technology-Patna, India. **Book of Abstract.**

24. "Synthesis of Designed Nano-platelet $Mg(OH)_2$ for Highly Efficient Cu(II) Adsorption" Pradip Sekhar Das, Suvajit Bakuli, Aniruddha Samanta, Ashok Kumar Mandal, **Jiten Ghosh**, Arjun Dey and Anoop Kumar Mukhopadhyay, presented in National Conference on Recent trends in functional materials in relation to Nanomaterials and Nanotechnology (RTFMNN), Kolkata organized by Department of Chemistry, St. Paul's Cathedral Mission College, Kolkata in collaboration with Indian Chemical Society, Kolkata Feb 4-5, 2016 at Department of Chemistry, St. Paul's Cathedral Mission College, Kolkata. **Page 118 in Book of Abstract.**

25. "Changing the chemical activity of a biosteel by surface engineering", Aniruddha Samanta, Himel Chakraborty, **Jiten Ghosh**, Monjoy Sreemeni, Vamsi Krishna Balla, Biswanath Kundu, S. Gangadharan, Sandip Baishak, Ramkrishna Rane, Alphonsa Joseph, Subroto Mukherjee, Anoop K. Mukhopadhyay, presented in National Conference on Recent trends in functional materials in relation to Nanomaterials and Nanotechnology (RTFMNN), Kolkata organized by Department of Chemistry, St. Paul's Cathedral Mission College, Kolkata in collaboration with Indian Chemical Society, Kolkata Feb 4-5, 2016 at Department of Chemistry, St. Paul's Cathedral Mission College, Kolkata. **Page 119 in Book of Abstract.**

26. "Enhancements in Nanomechanical and Micro/Nanotribological Properties of Plasma Nitrided Austenetic Steel", H. Chakraboty, A. Samanta, M. Bhattacharya, **J. Ghosh**, M. Sreemany, S. Bysakh, R. K. Rane, A. Joseph, S. Mukherjee and A. K. Mukhopadhyay, in **International Conference on Ceramic & Advanced Materials for Energy and Environment,** 79th Annual Session of Indian Ceramic Society organized by Indian Ceramic Society, India and Materials Research Centre, Indian Institute of Science at

Christ University, Bengaluru, India during 14th -17th December, 2015. **Page 156 (Poster 62) in Book of Abstract.**

27. "Synthesis and Characterization of Molybdenum doped Spin Coated Nanostructured V_2O_5 Thin Films", D. Mukherjee, P.S. Das, G. P. Nani, R. K. Hatale, M. Bhattacharya, D. Palai, B. Bera, J. Ghosh, A. Dey, A. K. Sharma and A. K. Mukhopadhyay, in **International Conference on Ceramic & Advanced Materials for Energy and Environment,** 79th Annual Session of Indian Ceramic Society organized by Indian Ceramic Society, India and Materials Research Centre, Indian Institute of Science at Christ University, Bengaluru, India during 14th -17th December, 2015. **Page 136 (Poster 30) in Book of Abstract.**

28. "Influence of crystal structure on the electrochemical properties of nano Sn powders as prepared by high energy ball milling", authored by Melvin Philips Varghese, Mathan T. Kumar, Pradip Shekar Das, Santanu Sen, Anoop Kumar Mukhopadhyay and ***Jiten Ghosh*** in ***Workshop on "Indian Innovations in Materials Research: New Materials and Processes (IIMR-15)"*** organized jointly by Indian Association for productivity, Quality and Reliability (IAPQR) & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 25th to 27th June, 2015 at CSIR-CGCRI, Kolkata, India. **Page 91, A-81 in Book of Abstract.**

29. ***"***Effect of lime and rice husk ash on the structural and mechanical properties of sub-grade soil for road construction", Sandeepan Saha, ***Jiten Ghosh*** and Sankar Chakrabarti in 1st ***International Conference*** on Alumina and Other Functional Ceramics (AOFC-2015) organized jointly by Indian Ceramic Society & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 11th to 13th March, 2015 at CSIR-CGCRI, Kolkata, India. **Page no:68, OP-14 in Book of Abstract**

30. "Structural Characterization of vitreous silica and nano silica from Pair distribution function analysis using Ag radiation" Prosenjit Khan, Mathan Kumar .T, Debasis Gupta, Anoop K. Mukhopadhyay and ***Jiten Ghosh*** in ***First International Conference*** on "Emerging Materials: Characterization & Application EMCA-2014" organized jointly by National Institute of Technology (N.I.T)-Durgapur & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 4th to 6th December, 2014 at CSIR-CGCRI , Kolkata, India. **Page no: 107 in Book of Abstract**

31. "Novel high efficiency nano-platelet $Mg(OH)_2$ for trace copper removal" P.S. Das, S. Bakuli, B. Bera, D. K. Chanda, A. Samanta, A.K. Mondal, K. Das Gupta, T. Maiti, Jiten Ghosh and A. K. Mukhopadhyay in ***First International Conference*** on "Emerging Materials: Characterization & Application EMCA-2014" organized jointly by National Institute of Technology (N.I.T)-Durgapur & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 4th to 6th December, 2014 at CSIR-CGCRI , Kolkata, India. **Page no: 193 in Book of Abstract**

32. Structural evolution in low temperature synthesized Anorthite on heat treatment at different temperature at different temperatures" Manidpta De, T. K. Mukhopadhyay, S.

Mukherjee, S. Ghosh, **Jiten Ghosh** and Sankar Ghatak in ***First International Conference*** on "Emerging Materials: Characterization & Application EMCA-2014" organized jointly by National Institute of Technology (N.I.T)-Durgapur & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 4th to 6th December, 2014 at CSIR-CGCRI , Kolkata, India. **Page no: 90 in Book of Abstract**

33. "The Study of formation mechanism of the ordered mesoporous silica from low angle X-ray scattering experiments", Sayeed Naweed Emamy, Debasis Gupta, Anoop K. Mukhopadhyay and **Jiten Ghosh** in ***First International Conference*** on "Emerging Materials: Characterization & Application EMCA-2014" organized jointly by National Institute of Technology (N.I.T)-Durgapur & CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 4th to 6th December, 2014 at CSIR-CGCRI , Kolkata India. **Page no:111 in Book of Abstract**

34. "Effect of Calcinations on the Structural Ordering of pores in mesoporous Cobalt Oxide powders" Sudipta Santra, Soumen Basu, Ashim Kumar Chakraborty and **Jiten Ghosh** in TEQIP-II Sponsored **Short Term Course on " Nanostructured Materials: Theory, Processing and Characterization—(SNTPC-2014)** organized by Department of Physics, National Institute of Technology, Durgapur, West Bengal during 7th to 11th April, 2014. **Page no: 30 in Book of Abstract.**

35. "Structural Characterization of mesoporous nano materials using Low Angle X-Ray Scattering Experiments" Sudipta Santra, Soumen Basu & **Jiten Ghosh** in **International Conference on "Materials and Characterization Techniques" organized** by School of Advanced Sciences, VIT University, Vellore, Tamilnadu, India during 10-12, March 2014 at VIT University, Vellore, Tamilnadu, India **Page no: 297, Abstract No PN 128 in Book of Abstract**

36. "Electrical modulus and impedance spectroscopy analysis on selenium nanoparticles at and above room temperature" Subhojyoti Sinha, Sanat Kumar Chatterjee, **Jiten Ghosh and** Ajit Kumar Meikap in 58 **DAE Solid State Physics Symposium organized by Bhaba Atomic Research Center, Mumbai** during 17th to 21st December, 2013 at Thapar University, Patiala, Punjab, India. **Page no: 198, Abstract No I-101 in Book of Abstract. Solid State Physics AIP Conf. Proc. 1591, 1265 -1268 (2014).**

37. "Structural characterization of mesoporous Cobalt oxide as prepared by high energy ball milling from low angle X-ray scattering experiments" authored by Sudipta Santra, Prosenjit Khan, Soumen Basu & **Jiten Ghosh** in the Short term course on "Advanced Functional Materials SAFM-2013" organized by Department of Physics, National Institute of Technology (N.I.T), Durgapur, West Bengal at N.I.T, Durgapur during 18th - 22nd November, 2013. **Page no: 41, P9 in Book of Abstract**

38. "Structural characterization of mesoporous copper oxide as prepared by high energy ball milling from low angle x-ray scattering experiments" Sudipta Santra, Sayan Samanta & **Jiten Ghosh in** the ***National Seminar on Recent Trends in Applied Sciences and Humanities*** organized by Durgapur Institute of Advances Technology & Management

(DIATM), Durgapur, West Bengal at DIATM Campus during 30th to 31st October, 2013. **Page no: 78, in Book of Abstract**

39. "Structural Characterization of Mesoporous nano silica using X-ray scattering" authored by Samya Neogi, Prosenjit Khan, Soumen Basu and **Jiten Ghosh** in Third National Seminar on recent trends in condensed matter physics including laser application" at Burdwan University, West Bengal during 5th to 7th March, 2013. **Page no: 50, P-16 in Book of Abstract**.

40. "Effect of carbon absorption on the dielectric properties of nano crystalline $BaTiO_3$ perovskite prepared by high energy ball milling" Samya Neogi and **Jiten Ghosh** in an **International Workshop on "Nanomaterials** (IWoN): Engineering Photon and Phonon Transport" which was held at School of Materials Science & Technology, Jadavpur University during 14th to 15th December 2012 **.** Page no: 67 in Book of Abstract.

41. "Preparation and introduction of CdSe Quantum dots in a 5CB twisted nematic liquid crystal cell: Observation of ordered array of nanostructures" S. Sinha, S. K. Chatterjee, A. K. Meikap and **J. Ghosh** in 57 **DAE Solid State Physics Symposium organized by Bhaba Atomic Research Center, Mumbai** during 3rd to 7th December, 2012 at Indian Institute of Technology, Bombay, India. **AIP Conf. Proc. 1512, 158-159 (2013**).

42. "The influence of antioxidants on some critical properties of magnesia carbon refractory" , A. Ghosh, M.K. Haldar, H. S. Tripathi, V. P. Reddy, **J. Ghosh**, S. K. Das, A. K. Rama Rao and P. Ray in 9th India **International Refractory Congress** organized by Indian Refractory Makers Association (IRMA) during 2nd -4th February, 2012 at TajBengal, Kolkata, India. Page no 140 in Book of Abstract

43. "Damage Evolution Mechanisms in Plate Impact of Alumina", A K. Mukhopadhyay, K D Joshi, A Dey, R Chakraborty, A Rav, **J. Ghosh**, S Bysakh, and S C Gupta in the 23rd **International Conference on High Pressure Science and Technology (AIRAPT-23)** was held at Bhabha Atomic Research Centre, Mumbai, from 25–30 September 2011**. IOP Publishing Journal of Physics: Conference Series 377** (2012) 012046 doi:10.1088/1742-6596/377/1/012046.

44. "A New Mechanism for ISE in Alumina Shock Deformed at 6.5 GPa", R. Chakraborty, A Dey, A. K. Mukhopadhyay, K D Joshi, A Rav, **J. Ghosh**, A.K. Mandal, S Bysakh, S. K. Biswas and S C Gupta in the 23rd **International Conference on High Pressure Science and Technology (AIRAPT-23)** was held at Bhabha Atomic Research Centre, Mumbai, from 25–30 September 2011**. IOP Publishing Journal of Physics: Conference Series 377** (2012) 012044 doi:10.1088/1742-6596/377/1/012044.

45. "Multiphase transformation and hybrid nanostructure under non equilibrium and equilibrium condition in nanocrystalline barium titanate powders" **J. Ghosh** & S. Mazumder in **International Conference** on Fundamental & Applications of Nano Science & Technology organized by School of Materials Science & Nanotechnology,

Jadavpur University, Kolkata during 9th – 11th December, 2010 at Jadavpur University, Kolkata, India. P-112, Page no 250 in Book of Abstract.

46. "The influence of SnO_2 on the structural transformation of TiO_2 powder during high energy ball milling", S. Roy[1], **J. Ghosh,** S. Bysakh & S. Sen, in the **International Conference** on Fundamental & Applications of Nano Science & Technology organized by School of Materials Science & Nanotechnology, Jadavpur University, Kolkata during 9th – 11th December, 2010 at Jadavpur University, Kolkata, India. P-127, Page no 269 in Book of Abstract -

47. "Carbon capture by mechanically activated nanocrystalline BaTiO3 perovskite", **J. Ghosh** & S. Mazumder in an **International Symposium** on Advances in nano materials (ANM2010) organized by Nanostructure Materials Division, Central Glass & Ceramic Research Institute(CGCRI), Kolkata during 6th -7th Dec., 2010 at CGCRI, Kolkata. CP-28 Page no 75 in Book of Abstract.

48. "Phenomena and mechanism on phase transition twining in nanocrystalline $BaTiO_3$" , S. Mazumder & **J. Ghosh** in **Material Research Society (MRS 2010), U.S.A** held during 5th -9th April, 2010 in San Francisco, California, U.S.A, N6.49 Page 28 of 99 in Book of Abstract.

49. "Deformation of Alumina Shocked above Hugoniot Elastic Limit" authored by A. K. Mukhopadhyay, K.D. Joshi, A. Dey, R. Chakraborty, **J. Ghosh** et. al., in proceedings of **National Seminar** on " Deformation, Wear and Fracture-2010" during 24th -25th March, 2010 at Jadavpur University organized by Metallurgical and Material Engineering Department, Jadavpur University, Kolkata, India.

50. "Microstructural modelling of nanostructured $BaTiO_3$ powder by mechanical milling", **J. Ghosh,** K. Mukherjee & S. Mazumder, in **International Conference** on "Electroceramics (ICE 2009)", Organized by University of Delhi during 13th -17th December, 2009 at University of Delhi, New Delhi, India. Page No 341 in Book of Abstract

51. "On Mechanical Properties of Alumina Ceramics under Shock Loading" A.K. Mukhopadhyay, K.D. Joshi, S. Biswas, S. Bhattacharya, **J. Ghosh**, S. Bysakh, A. Rav, S.C. Gupta in 20th Annual General Meeting of **Materials Research Society of India**, during 10-12th February, 2009, at Saha Institute of Nuclear Physics, Kolkata, India, Page No. 57 in Book of Abstract.

52. "Effect of Activation on Boron Nitride Coating on Carbon Fiber", M.Das, **J. Ghosh**, A.K. Basu, S. Ghatak in in 20th Annual General Meeting of **Materials Research Society of India,** 10-12th February, 2009, at Saha Institute of Nuclear Physics, Kolkata, India, Page No. 53 in Book of Abstract.

53. "Study of microstructural defect parameters in Copper-Silver nano-crystalline samples by modified Riteveld method", **J. Ghosh**, S. K. Chattopadhyay, S. K. Chatterjee, A. K. Meikap, and K. Chattopadhyay, in Supplementary Proceeding of the **International Conference** on "Nano-materials; Synthesis, Characterisation and Application", at Taj Bengal, Kolkata, India during 4-6th November, 2004. Page no. 83 in supplementary proceedings.

54. "Study of micro structural defect parameters in Vanadium-Aluminium alloys using Warren-Averbach and modified Rietveld techniques", **J. Ghosh**, S. K. Chattopadhyay, A. K. Meikap and S. K. Chatterjee, in 15 th Annual General Meeting of **Materials Research Society of India**, 8-11th February, 2004, B.H.U, Varanasi, India, Page No. 98 in Book of Abstract.