

List of publications in SCI Journal:

1. “Effect of Alumina Diluent on the Microstructure and Electrical properties of Al_2O_3 -Ti/ZrB₂ composites prepared by Self Propagating High Temperature Synthesis Dynamic Compaction” authored by **Jiten Ghosh**, Sandip Bysakh, Santanu Sen, Suman Kumari Mishra, **Journal of Materials Engineering and Performance (2025)**
<https://doi.org/10.1007/s11665-025-12664-7>
2. “Effect of Fly Ash and nano Silica on the formation of Calcium Silicate hydrate in Portland **cement during hydration process**” authored by Kanchan K. Kole, S. Gautham, Prosenjit Khan, Nitai Dey, Kajari Dasgupta, Ashok K. Mondal, M B Anoop, Jiten Ghosh and Saptarshi Sasmal in **Journal of Building Engineering 97 110804 (2024)**.
3. “Atomic and micro-scale structural investigation of Bi /Cu and Bi -Cu doped BCZT dielectric properties”, Kanchan Kumar Kole and Jiten Ghosh in **AIP Advances, 14, 085006 (2024)**
4. “Stepwise ordering under nano-scale confinement in thin Silica films” Subrata Pramanik, Ripan Kumar Biswas, Mrinmay Kumar Mukhopadhyay, **Jiten Ghosh**, and Alokmay Datta in **International Journal of Modern Physics B, 2540031 (2024)**
[\[https://doi.org/10.1142/S0217979225400314\]](https://doi.org/10.1142/S0217979225400314)
5. “Ambient formation of high pressure $\text{Ag}_2\text{Si}_2\text{O}_5$ and Nonstoichiometric $\text{Ag}_{0.3}\text{Al}_{0.7}$ alloy under confinement”, authored by Subrata Pramanik, Mrinmay Kumar Mukhopadhyay, Ripan Kumar Biswas, **Jiten Ghosh**, and Alokmay Datta in **AIP Advances 14, 015025 (2024)**. [<https://doi.org/10.1063/5.0161777>].
6. “Effect of Fly Ash on the atomic scale structure of C –S – H during Portland Cement hydration” authored by Kanchan K. Kole, S. Gautham, Prosenjit Khan, Ripan K. +Biswas, Kajari Dasgupta, Ashok K. Mondal, M B Anoop, **Jiten Ghosh** and Saptarshi Sasmal in **Magazine of Concrete Research 75 (21) (2023) 1097-1116**
[\[https://doi.org/10.1680/jmacr.22.00327\]](https://doi.org/10.1680/jmacr.22.00327)
7. “Investigation of local structure and phase transformation in Ce-doped Barium Titanate and correlation with electrical properties”, Md Sahanoor Islam and Jiten Ghosh, **Phase Transition, Vol.96, No.7, (2023) 471-481**
8. “Fundamental understanding of size and surface modification effects on relaxivity of Prussian blue nanocube@m-SiO₂ : a novel targeted chemo-photodynamic theranostic

agent to treat colon cancer” Panchanan Sahoo, Sudip Kundu, Shubham Roy, S. K Sharma, Jiten Ghosh, Snehasis Mishra, Abhishek Mukherjee and Chandan Kumar Ghosh in **RSC Advances** (2022) 12, 24555-24570.

9. “Nanoscale Plasticity in Titania Densified Alumina Ceramics” Payel Maiti, Dhrubajyoti Sadhukhan, Jiten Ghosh and Anoop K. Mukhopadhyay in **Journal of Applied Physics** (2022) 131 (13), Art No. 135107
10. “Trapped Exciton-Enhanced Response of n –TiO₂ (110)/p- Si (111) Nanostructures as Photodetectors” authored by Monikuntala Bhattacharya, Sayan Das, Md. Sahanoor Islam, Anirban Roychowdhury, Jiten Ghosh and Chandan Ghosh in **ACS Applied Nano Materials** (2022), 5, 2316-2325.
11. “Confinement Creates a 9 GPa Ambience: Emergence of Cristobalite Phases in a Silica Film” S. Pramanik, J. Ghosh, D. Chanda, M. Mukhopadhyay, A. Datta **Materials Research Express** (2021), 8 (6), Art No. 066403
12. “Modelling of Nanoindentation Behaviour in MgO doped Alumina” Payel Maiti, Jiten Ghosh and Anoop K. Mukhopadhyay in **Ceramics International** (2021), 47 (7, Pt A), 9090-9110.
13. “Biocompatibility and Cyclic Fatigue Response of Surface Engineered Ti6Al4V Femoral Heads for Hip-Implant Application” A Samata, R. Rane, G. Jhala, B. Kundu, S. Datta, J. Ghosh, A. Joseph, S. Mukherjee, S. Roy, A. K. Mukhopadhyay in **Ceramics International** (2020) 47 (5), 6905-6917.
14. “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, in **Transactions of the Indian Ceramic Society** 79 (3) (2020) 158-165.
15. “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 Kuttanellor published in **Materialia** 12 (2020) 100776.
16. “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.
17. “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

18. "Study of non-centrosymmetric to centrosymmetric structural transformation in Zr-doped Barium Titanate" Md. S. Islam and J. Ghosh published in **Phase Transitions**, Vol 93, No. 4(2020) 351—360, doi.org/10.1080/01411594.2020.1731509.
19. "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.
20. "Synthesis of Structure Determination of Calcium Silicate-Cellulose Nanoglass 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.
21. "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.
22. "Study of Carbonation Characteristics of nano-structured Barium Titanate 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
23. "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.
24. "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.
25. "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
26. "Micro Pop-in issues in nanoindentation behaviour of 10 ZTA ceramics" authored by Payel Maiti, Ammar Egbal, Manjima Bhattacharya, Pradip Sekhar Das, Jiten Ghosh and Anoop Kumar Mukhopadhyay in **Ceramic International** 45 (2019) 8204-8215.
27. "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 Mukhopadhyay. in **Trans. Ind. Ceram. Soc.**, vol. 77, no. 4 (2018) pp. 226-234

28. “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
29. “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.
30. “Study 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.
31. “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.
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37. "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**.
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41. "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**.
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56. "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.
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82. "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
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84. "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. **“Study of atomic – level structure of cementitious Calcium Silicate Hydrate (C-S-H) in Portland Cement during hydration process”**, Akkash Ali Mallick, Kanchan K. Kole, Prosenjit Khan, Kajari Dasgupta, Ashok Kumar Mandal, M B Anoop, Saptarshi Sasmal and Jiten Ghosh, presented in National Conference on Ceramic and Glass Technology in the Modern Era: Challenges, Opportunities, and Sustainability (CGTME-2025)” will be organized by Indian Institute of Ceramics and Govt. College of Engineering & Ceramic Technology (GCECT), Kolkata during 8th to 9th August, 2025.
2. **“Effect of multi wall Carbon nano tube on the average and atomic scale structure of ordinary Portland Cement during hydration ”**, Akkash Ali Mallick, Kanchan K. Kole, Prosenjit Khan, M B Anoop, Jiten Ghosh and Saptarshi Sasmal, presented in National Conference on Trends and Challenges in Ceramic Sector for sustainable Development and Mrittika 3.0 organized by the Department of Ceramic Engineering and InCers Student Chapter, NIT Rourkela at NIT Rourkela during 3rd to 5th April, 2025. **Page No- 49, Book of Abstract.**
3. **“Study of atomic scale structure in BCZT perovskite from laboratory based Atomic Pair Distribution Function (APDF) using Ag radiation in a conventional XRD System”**, Kanchan Kumar Kole, Amit Maiti, Santanu Sen and Jiten Ghosh and Saptarshi Sasmal, presented in Conference on Emerging Trends in Advanced Materials (ETAM 2025) organized by Functional Materials and Devices division, CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 6th to 7th February, 2025 at CSIR-Central Glass and Ceramic Research Institute, Kolkata **Page No- 52, Book of Abstract.**
4. **“Insight into the local atomistic scale structure of C-S- H in Ordinary Portland Cement during hydration process”**, Akkash Ali Mallick, Kanchan K. Kole, S. Gautham, Prosenjit Khan, Ashok K Mondal, Tarun K. Kayal, M B Anoop, Jiten Ghosh and Saptarshi Sasmal, presented in Conference on Emerging Trends in Advanced Materials (ETAM 2025) organized by Functional Materials and Devices division, CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 6th to 7th February, 2025 at CSIR-Central Glass and Ceramic Research Institute, Kolkata **Page No- 56, Book of Abstract.**
5. **“Study of short- range structural ordering in nano-structured ceramics and amorphous materials from Laboratory based Atomic Pair Distribution Function (LAPDF) in a conventional X-ray Diffractometer using Ag radiations”**, Jiten Ghosh and Ripan K. Biswas, presented in XXVII International Congress on Glass (ICG 2025) organized by CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata during 20th to 24th January, 2025 at Biswa Bangla Convention Centre, Newtown, Kolkata.
6. **“Use of Laboratory based Atomic Pair Distribution Function (APDF) in a conventional X-ray diffractometer using Ag radiations for the study of local atomic**

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7. **“Use of Atomic Pair Distribution Function (APDF) to investigate local atomic scale structures in nano/disordered materials”** Jiten Ghosh, presented in International Conference on “Exploring the Emerging World of Ceramics and Glass (ICEECG 2023) organized by the Indian Ceramic Society, Kolkata Chapter jointly with CSIR- Central Glass and Ceramic Research Institute, Indian Institute of Ceramics and All India Pottery Manufacture’s Association during 19th -21st December , 2023 at CSIR- Central Glass and Ceramic Research Institute, Kolkata.**No: CL-18, Page No-77 Book of Abstract.**
8. **“Local structural investigations of Ca and Zr doped BaTiO₃ using Electron microscopy and Pair distribution Function”** Kanchan K. Kole and Jiten Ghosh, presented in International Conference on Advanced Materials for Better Tomorrow-II (AMBT-2023) organized by Department of Physics, BHU at Banaras Hindu University, Varanasi, UP, India during 10th to 13th October, 2023. **Page No: 179 in Book of Abstract.**
9. **“Study of average and local atomic-scale structure in Cementitious C-S-H using Electron Microscopy and Pair Distribution Function”**, Jiten Ghosh, Kanchan K. Kole, M B Anoop and Saptarshi Sasmal, presented in International Symposium on “Concrete Construction: Present and future (ICI-IWC24)” organized by Indian Concrete Institute, Kolkata during 18th to 20th January, 2024 at Raajkutir, Kolkata. **Page No: 264-270 in Book of Abstract.**
10. **“Study of Carbon Dioxide Sensing Characteristics of Barium Titanate Perovskite”**, Avanish Kumar, Siddhartha Bhattacharya, Santanu Sen and Jiten Ghosh, presented in conference Perovskite Society of India Meet (PSIM)-2023 jointly organized by Perovskite Society of India and IIT-Roorkee at IIT-Roorkee during 1st March to 3rd March 2023. **Book of Abstract.**
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12. **“Study of structural and dielectric properties of Zr doped Barium Titante (BZT) by X-ray Diffraction and Atomic Pair Distribution Function”**, Sahanoor Islam and Jiten Ghosh, presented in one day workshop on “Advanced Energy Materials & Devices(AEMD-2022)” organized by EMDD, CSIR-Central Glass and Ceramic Research

Institute (CGCRI), Kolkata on 3rd March, 2022 at CSIR-Central Glass and Ceramic Research Institute, Kolkata.

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14. **“Indentation Size Effect in nanoindentation Behaviour of TiO₂ 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**
15. **“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**
16. **“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-eBTDD 2020 organized by Indian Institute of Metals, Jamshedpur Chapter in association with Tata Steel Limited and CSIR-NML on 28th August, 2020.
17. **“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.**
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33. “ 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.**
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