

Ms. Paromita Das

Complete List of Publications

A. Journal Papers

1. **Paromita Das**, Udayan Mukherjee, Savan Kumar Sharma, S. Mukhopadhyay, Barun K. Sanfui, “Synergistic effect of YAG particulate reinforcement on microstructural and thermo-mechanical properties of pressureless sintered MgAl_2O_4 spinel ceramic composites”, *Ceramics International*, 2024, 50 (21) Part A, 41892-41903
2. **P. Das**, S. K. Sharma, S. Mukhopadhyay, B. K. Sanfui, “Effects of Binary Oxide Coated MWCNTs Toward Tailoring the Mechanical, Thermo-Mechanical, and Microstructural Properties of Pressureless Sintered MgAl_2O_4 Spinel Ceramic Composite”, *Glass and Ceramics*, 2024, 80 (9), 445-450
3. **P. Das**, S. K. Sharma, B. K. Sanfui, “Unveiling the reinforcement potentiality of MWCNTs architecture towards the improvement of microstructural vis-a-vis mechanical and thermo-mechanical properties of pressureless sintered MgAl_2O_4 spinel ceramic composite”, *Journal of Alloys and Compounds*, 2023, 960, 170654
4. S. Sinhamahapatra, **P. Das**, K. Dana, H. S. Tripathi, “Magnesium aluminate spinel: structure, properties, synthesis and applications”, *Transactions of the Indian Ceramic Society*, 2022, 81 (3), 97-120
5. Savan Kumar Sharma, **Paromita Das**, Bishnupada Mandal, Barun K. Sanfui, “Fabrication, Characterization and Optimization of Industrial Alpha Alumina Powders based Ceramic Membrane Supports and its Applicative Potential for CO_2/N_2 Separation, *Journal of CO_2 Utilization*”, 2022, 63, 102121
6. Savan Kumar Sharma, **Paromita Das** and Barun K. Sanfui, “Unveiling the role of structure–property correlation and its validation towards engineering the application potential of sol–gel derived mesoporous gamma-alumina”, *Mol. Syst. Des. Eng.*, Royal Society of Chemistry (RSC), 2022, 7, 67-91
7. **Paromita Das**, Savan Kumar Sharma and Barun K. Sanfui, “Engineering of the structural and morphological characteristics of MWCNTs employing a nano-dimensional binary oxide coating with enhanced thermal oxidation resistance properties for the tailoring of their reinforcement potential”, *New J. Chem.*, Royal Society of Chemistry (RSC), 2022, 46, 5975-5995
8. **P. Das**, S. Sinhamahapatra, K. Dana, S. Mukhopadhyay, “Improvement of thermal conductivity of carbonaceous matrix in monolithic Al_2O_3 -C refractory composite by surface-modified graphites”, *Ceramics International*, 2020, 46 (18) 29173-29181

9. **P. Das**, S. Dutta, N. Das, S. Mukhopadhyay, “Extended studies on surface-treated graphite vis-à-vis its application in high alumina refractory castable”, International Journal of Applied Ceramic Technology, 2018, 15 (3) 668-677
10. A. Olanrewaju, A.K. Oluseyi, **P. Das**, S.K. Das, “Sintering study of a mixture of Nigerian sources of Kaolin and LR grade alumina powder”, Indoceram, 2018, 5 (3), 47-52
11. A. K. Kabiraj, G. Pahari, **P. Das**, T. K. Parya, “Microstructural and electrical characteristics of sintered aluminous porcelain insulators”, Ceramic Forum International, 2017, 94 (1-2) E-55-E-60
12. A. K. Kabiraj, S. Saha, A. Chakraborty, **P. Das**, T. K. Parya, S.K. Das, “Recycling study of vitrified porcelain tiles scrap” Ceramic Forum International, 2017, 94 (1-2), E-1-E-6
13. **P. Das**, S. BasuMallick, P. Maity, S. Palit, S. Ghosh, S. Mukhopadhyay, “Evaluation of refractory performance of basic castables containing magnesium-aluminate sol-gel coatings on graphite”, Interceram, 2016 (1) 041-046
14. S. Dutta, **P. Das**, A. Das, S. Mukhopadhyay, “Significant improvement of refractoriness of Al₂O₃-C castables containing calcium aluminate nano-coatings on graphite”, Ceramics International, 2014, 40 (3) 4407-4414
15. S. Dutta, **P. Das**, A. Das, S.Modak, S.Mukhopadhyay, “Physical Characteristics of Alumina-Carbon Refractory Castables Containing Calcium Aluminate-coated Graphites”, Interceram, 2013, 62 (4) 294-298

B. Conference Papers/Proceedings

1. **P. Das**, S. Sinhamahapatra, V. P. Reddy, H.S. Tripathi, “Effect of Nano Carbon Sources on the Thermal, Mechanical, and Thermo-Mechanical Properties of Low Carbon MgO-C Refractory”, International Conference on Exploring The Emerging World of Ceramics and Glass, ICEECG 2023 at CSIR-CGCRI, Kolkata, India, 19-21 December, 2023
2. U Mukherjee, **P. Das**, T Biswas, and Barun K Sanfui, “Fabrication and Characterization of MWCNT Reinforced Alumina Based Nanostructured Composites”, International Conference on Exploring The Emerging World of Ceramics and Glass, ICEECG 2023 at CSIR-CGCRI, Kolkata, India, 19-21 December, 2023
3. U. Mukherjee, **P. Das**, S. K. Sharma, T. Biswas and B. K. Sanfui, “Fabrication and characterization of MWCNT reinforced industrial alpha alumina matrix based ceramic composites”, National Conference on Current Scenario and Future Trends in Ceramics And Allied Industries and Mrittika 2.0 at NIT Rourkela, India, 6-8 April, 2023

4. **P. Das**, S. K. Sharma and B. K. Sanfui, “Surface Engineering of Multi-Walled Carbon Nanotubes (MWCNTs) with Ceramic Oxide Coating”, International Virtual Conference on Advances in Ceramics & Cement Technologies: Materials & Manufacturing- IvaCCT at HKE Society’s PDA College of Engineering, Kalaburagi, Karnataka, India, 13-14 December, 2021
5. S. K. Sharma, **P. Das** and B. K. Sanfui, “Effect of Synthesizing Parameters towards the Evolution of Sol-Gel Derived Mesoporous γ -Alumina” International Virtual Conference on Advances in Ceramics & Cement Technologies: Materials & Manufacturing- IvaCCT at HKE Society’s PDA College of Engineering, Kalaburagi, Karnataka, India, 13-14 December, 2021
6. **P. Das** & B.K. Sanfui, “Studies on the Mechanical Activation Assisted Low Temperature Synthesis of Magnesium Aluminate Spinel”, International Conference on Emerging Technologies for Sustainable Development (ICETSD’19) at Eastern Zonal Cultural Centre and GCELT, Kolkata, 5-6 March, 2019
7. **P. Das** & B.K. Sanfui, “Influence of Mechanical Activation on Structural and Morphological Evolution of Magnesium Aluminate Spinel”, Microsymposium on Recent Developments in Mineral Processing and Mechanical Activation of Solids at CSIR-NML Jamshedpur, 22 February, 2019
8. **P. Das** & B.K. Sanfui, “Studies on the Thermal Stability of Surface Modified MWCNT in Oxidizing Atmosphere”, National Conference on Recent Developments in Nanoscience & Nanotechnology at School of Materials Science and Nanotechnology, Jadavpur University, 29-31 January, 2019
9. **P. Das** & B.K. Sanfui, “Effect of Binary Oxide Coating on the Oxidation Resistance of Multi-Walled Carbon Nanotube”, 6th International Conference on Refractories (ICRJ 2019) at The Wave International, Jamshedpur, 9, 10 & 11 January, 2019
10. S. K. Sharma, **P. Das**, B.Mandal, M.K. Purkait, B.K. Sanfui, “Structural and Morphological Studies of Sol-Gel Derived Nano-Crystalline γ -Alumina”, National Conference on Recent Developments in Nanoscience & Nanotechnology at School of Materials Science and Nanotechnology, Jadavpur University, 29-31 January, 2019
11. S.K. Sharma, P. Halder, **P. Das**, S. Chatterjee, B.K. Sanfui, “Experimental Investigation on Fly Ash Based Geopolymer Concrete”, 6th International Conference on Refractories (ICRJ 2019) at The Wave International, Jamshedpur, 9, 10 & 11 January, 2019
12. P.R. Bar, **P. Das**, S. K. Sharma, A. Ghosh, D. Tak, B.K. Sanfui, “Some Studies on the Decarbonation-Rehydration Behavior of Bhutanese Dolomite”, 6th International Conference on Refractories (ICRJ 2019) at The Wave International, Jamshedpur, 9, 10 & 11 January, 2019
13. S. Das, **P. Das**, S. Mukhopadhyay, “Surface-modified Graphite: A Futuristic Material for Application in Carbon Bearing Monolithic Refractory Ceramics”, International Conference on Current Trends in Materials Science and Engineering, CTMSE (2018) at S. N. Bose National Centre

for Basic Sciences, Kolkata, 2018

14. S. Moitra, **P. Das**, S. Mukhopadhyay, “Spinel-Coated Sustainable Graphite For MgO-C Castable Refractories”, International Conference & Frontiers on Nanoscience & Nanotechnology at Sastra University, Thanjavur, 26-28 February, 2016
15. P. Dey, **P. Das**, B. K. Sanfui, T. K. Parya, “Non-Isothermal Solid State Decomposition Kinetics Of Aluminum Titanate Precursor Derived Through Co-Precipitation Route”, International Conference on the occasion of 78th Annual Session of The Indian Ceramic Society at SNTI & Centre for Excellence, Jamshedpur, 2-3 February 2015