

Dr. Savan Kumar Sharma

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*, 50 (21) Part A, 41892-41903, 2024 **I.F. 5.1**
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*, 80 (9), 445-450, 2024 **I.F. 0.6**
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*, 960, 170654, 2023 **I.F. 5.8**
4. Paromita Das, **Savan Kumar Sharma** and Barun K. Sanfui, “Engineering of Structural and Morphological Characteristics of MWCNTs Employing Nano-dimensional Binary Oxide Coating with Enhanced Thermal Oxidation Resistance Property vis-a-vis Tailoring of its Reinforcement Potentiality” *New Journal of Chemistry*, 46, 5975-5995, 2022 **I.F. 2.7**
5. **Savan Kumar Sharma**, Paromita Das, Bishnupada Mandal and 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*, 63, 102121, 2022 **I.F. 7.2**
6. **Savan Kumar Sharma**, Paromita Das and Barun K. Sanfui “Unveiling the Role of Structure-Property Correlation and its Validation Towards Engineering the Applicative Potentiality of Sol-Gel Derived Mesoporous Gamma-alumina” *Molecular Systems Design & Engineering*, 7, 67-91, 2021

I.F. 3.2

7. **Savan Kumar Sharma**, Barun K. Sanfui, Aviti Katore, Bishnupada Mandal” Fabrication and Performance Evaluation of Industrial Alumina-Based Graded Ceramic Substrate for CO₂ Selective Amino Silicate Membrane” *ACS Applied Materials & Interfaces*, 12, 40269–40284, 2020 **I.F. 8.3**
8. **Savan Kumar Sharma**, Bhaba Sankar Mallick and Tapan Kumar Parya “Decarbonation-rehydration characteristics of Almora magnesite under equilibrium condition” *Journal of the Indian Chemical Society*, 93, 443-448, 2016 **I.F. 3.2**

B. Conference Papers/Proceedings

1. **S. K. Sharma**, Lakhendra Singh and H.S. Tripathi “Development of fast fired glazed stoneware based ceramic products” National Seminar on Industrial Ceramics: Challenges, Opportunities and Sustainability (ICCOS), CSIR-CGCRI, Kolkata, India, 13-14 June, 2024
2. **S. K. Sharma**, Komal Singh and H.S. Tripathi, “Preparation and Characterization of Cordierite Ceramics Utilizing Fired Stoneware Crockery Waste” International Conference on Exploring The Emerging World of Ceramics and Glass (ICEECG 2023), CSIR-CGCRI, Kolkata, India, 19th - 21nd December, 2023
3. 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, 13rd-14th December, 2021
4. **Savan Kumar Sharma**, B. Mandal, M. Purkait and B. K. Sanfui “Synthesis and Characterization of Sol-Gel Derived Mesoporous γ -Alumina” International Conference on Emerging Technologies for Sustainable Development (ICETSD’19) at Eastern Zonal Cultural Centre and GCELT, Kolkata, 5th and 6th March, 2019.
5. **Savan Kumar Sharma**, Paromita Das and B. K. Sanfui “Effect of Synthesizing Parameters towards the Evolution of Sol-Gel Derived Mesoporous γ -Alumina” Flash Talk, Session 1:

Processing and Engineering Ceramics & Coating, Nanomaterials & Structural Ceramics, Refractory Materials & Applications, 85th Annual session of Indian Ceramic Society (InCerS) in conjunction with 47th Annual Session of IIC and 73rd Annual Session of AIPMA and International Virtual Conference on “Advances in Ceramics & Cement Technologies: Materials & Manufacturing- IvaCCT” held at HKE Society’s PDA College of Engineering, Kalaburagi, Karnataka, India during 13th-14th December, 2021.

6. Paromita Das, **Savan Kumar Sharma** and B. K. Sanfui “Surface Engineering of Multi-Walled Carbon Nanotubes (MWCNTs) with Ceramic Oxide Coating” Flash Talk, Session 1: Processing and Engineering Ceramics & Coating, Nanomaterials & Structural Ceramics, Refractory Materials & Applications, 85th Annual session of Indian Ceramic Society (InCerS) in conjunction with 47th Annual Session of IIC and 73rd Annual Session of AIPMA and International Virtual Conference on “Advances in Ceramics & Cement Technologies: Materials & Manufacturing- IvaCCT” held at HKE Society’s PDA College of Engineering, Kalaburagi, Karnataka, India during 13th-14th December, 2021.
7. **Savan Kumar Sharma**, Bishnupada Mandal and Barun K. Sanfui, “Development of Commercial Alumina Based Sol-Gel Derived Multilayer CO₂ Selective Ceramic Membrane” presented at the Indo Canadian Research Conclave on Carbon Capture Sequestration and Utilization (ICRC-CCSU), Department of Chemical Engineering, Pandit Deendayal Energy University, Gandhinagar, 12-13th March 2021.
8. **Savan Kumar Sharma**, Paromita 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.
9. **Savan Kumar Sharma**, Pappu Halder, Paromita Das, Satavisha Chatterjee and 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 & 11th January, 2019
10. Panchu Ram Bar, Paromita Das, **Savan Kumar Sharma**, A. Ghosh, D. Tak and 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 & 11th January, 2019

11. Golam Mortoja, **Savan Kumar Sharma**, Gobinda Pahari, B. K. Sanfui and T. K. Parya “Effect of substitution of quartz by calcined bauxite on microstructural and thermo mechanical properties of porcelain insulator” International Conference on the occasion of 78th Annual Session of The Indian Ceramic Society at SNTI & Centre for Excellence, Jamshedpur, 2nd and 3rd February 2015.
12. **Savan Kumar Sharma** and Ramakaran “Glass Manufacturing Process & Characterization Techniques: A Review” at National Workshop On Characterization Techniques in Material Science (NWCTMS-2012) held at Department of Physics, Govt. College of Engineering & Technology, Bikaner, on 1st February 2012.