



Dr. Savan Kumar Sharma

Dr. Sharma joined CSIR-CGCRI on August 2022

Professional Career

Institution	Position	Period
CSIR-CGCRI, Khurja Centre	Scientist	2022 onwards

Dr. Savan Kumar Sharma

Scientist & Co-ordinator

Khurja Centre, Uttar Pradesh

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Education

Degree	Discipline	University/Year
Ph.D. (Tech.)	Ceramic Technology	Maulana Abul Kalam Azad University of Technology (MAKAUT)
M.Tech	Ceramic Engineering	University of Calcutta
B.Tech	Ceramic Engineering	Rajasthan Technical University

AWARDS/RECOGNITIONS

- Recipient of '*Senior Research Fellowship Award (SRF-Direct)*', Council of Scientific & Industrial Research (CSIR), Government of India
- Recipient of '*Junior Research Fellowship Award (JRF)*', Department of Science and Technology (DST), Government of India
- Recipient of '*Research Associate Award (RA)*', M/S H & R Johnson (India) Ltd., University of Calcutta
- Council Member, Indian Ceramic Society

Patents Filed/Granted

Patents filed-2

1. Paromita Das, **Savan Kumar Sharma** and B.K. Sanfui "An energy efficient process for the production of magnesium aluminate spinel ceramic", Indian Patent (Filed), Application No: 202131017942 dated 19/04/2021
2. Paromita Das, **Savan Kumar Sharma** and B.K. Sanfui "Enhancement of thermal oxidation resistance

properties of MWCNTs by MgAl-Binary oxide coating and its preparation there of”, Indian Patent (Filed), Application No: 202131045889 dated 08/10/2021

Membership in Professional Bodies

- Life member, Indian Ceramic Society
- Life member, Indian Institute of Ceramics
- Life member, The Indian Science Congress Association
- Life Member, Materials Research Society of India
- Life Member, Society for Materials Chemistry

RESEARCH

Research Interest

Development of traditional and high temperature ceramic bodies, Recycling of fired stoneware waste, Identification of minerals in ceramic raw materials, Ceramic membranes, CO₂ separation membranes and Sol-gel based surface coatings.

PUBLICATIONS

Summary: In Journal: 08, In conference proceedings: 12

Selected papers:

- **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 CO₂/N₂ Separation” *Journal of CO₂ Utilization*, 63, 102121, 2022. **I.F.7.2**
- **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**
- **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**
- **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**

SUPERVISION B. Tech. : 2