

Research Publication: 2022-2023

1. Investigation of Novel Epoxy/Mixed Plastic Waste Char Nano-composites: Mechanical, Thermal, and Morphological Properties

P Dwivedi, AK Rathore, D Srivastava, J Bhaskar, K Srivastava, D Agrahari

International Conference on Recent Advances in Materials, Manufacturing and Thermal Engineering, Springer Nature Singapore, pp. 451-464, 2022-2023.

Book Chapter Published: 2022-2023

1. Microfluidic synthesis of nanoparticles.

Ashish Kapoor, Vijay Vaishampayan, Anjali Awasthi, Soma Banerjee

In: Advances in MEMS and Microfluidic Systems, IGI Global, ISBN13: 9781668469521, ISBN10: 1668469529, EISBN13: 9781668469545, 2023.

2. Functional Polymer Nanocomposites as Supercapacitors for Health Care

Akanksha Verma, Bablu Mordina*, Kingsuk Mukhopadhyay, Mayank Dwivedi, Soma Banerjee*

In: (Chapter 21), mater. Horizons: From nat. to Nanomaterials, Chaudhery Mustansar Hussain and M Basheer Ahamed (Eds): Functionalized Nanomaterials Based Supercapacitor, Springer Nature, 2023

3. Recent advancement in Polymer nanocomposite based adsorbents for chromium removal
Anjali Awasthi, Ashish Kapoor, Soma Banerjee*

In Nanocomposites and Nanohybrid Materials: Processing and Applications edited by Rajesh Kumar Verma, Devendra Kumar Singh, J Paulo Davim, Berlin, De Gruyter, 2024, pp. 315-33

Papers presented in National and International Conferences: 2022-2023

1. Oral presentation on “A Comprehensive Investigation on SPEEK based Polymer Electrolyte Membranes for Fuel Cells”, OP/ES/111 at CHEMCON 2022 and 75th Annual Session of Indian Institute of Chemical Engineers from 27th-30th December, 2022, Kanpur, India. Presenter : Dr. Soma Banerjee

2. Oral presentation by Akanksha Verma (Presenter) and Soma Banerjee* “Recent Development in Bio-waste Derived Porous Carbon Electrodes for Supercapacitor Devices”, OP/ES/112 at CHEMCON 2022 and 75th Annual Session of Indian Institute of Chemical Engineers from 27th-30th December, 2022, Kanpur, India.