Research Publication: 2023-24:

 Co-pyrolysis of Diaper Cellulose and Sugarcane Bagasse: Investigating Kinetics, Thermodynamics, and Possible Synergies
 P Dwivedi, AK Rathore, D Srivastava, RK Mishra, K Srivastava
 Journal of Hazardous, Toxic, and Radioactive Waste 28 (4), 04024016

 Recent trends in microwave-assisted pyrolysis of agricultural residues: kinetic and thermodynamic studies
 P Dwivedi, RK Mishra, K Srivastava, D Srivastava, AK Rathore Emerging Biofuels, 77-103

Book Chapter Published: 2022-2023

 Polymer Nanocomposites for Food Packaging Applications
 Soma Banerjee, Ashish Kapoor, Anjali Awasthi and P. Rajasulochana
 In: Mallakpour, S., Hussain, C.M. (eds) Handbook of Nanofillers. Springer, Singapore. https://doi.org/10.1007/978-981-99-3516-1_110-1 Chapter 110-1,
 Publisher: Springer, Singapore
 Print ISBN: 978-981-99-3516-1

2. Title of the Book: Advances in Material Technology
Editor: Dr. Abhishek Dwivedi
Chapter 1: Composite Materials based on high performance polymer for high-tech applications
By: Mohd Rashid Khan, Pradeep Kumar, Abrar Ahmad
ISBN: 978-81-962299-9-3
Printed by: National Printers, Lucknow

3. Title of the Book: Emerging Biofuels
Title of the Chapter: Chapter 5 - Recent trends in microwave-assisted pyrolysis of agricultural residues: kinetic and thermodynamic studies Page nos: 77-103
Authors: Parul Dwivedi, Rajendra Kumar Mishra, Kavita Srivastava, Deepak Srivastava, Ashwani Kumar Rathore
Publisher: Elsevier Editors of the book: Sonil Nanda; Ajay K. Dalai; Vaibhav Vasant Goud Year : March 2024

Papers presented in National and International Conferences: 2023-2024

1.Rohit Nishad (Presenter) and Soma Banerjee* Carbon Reinforced Epoxy based Composites for Structural Application in International Conference IIChE - CHEMCON 2023 Organized by Indian Institute of Chemical Engineers from December 27-30, 2023 at Heritage Institute of Technology, Kolkata

2. Oral Presentation by Soma Banerjee (Presenter), Sachin Chauhan and Kamal K. Kar on Fabrication of Open and Closed Cell Porous Sulfonated Poly ether ether ketone Membranes by Phase Inversion Technique in International Conference IIChE - CHEMCON 2023 Organized by Indian Institute of Chemical Engineers from December 27-30, 2023 at Heritage Institute of Technology, Kolkata

3. Oral Presentation by Shreya Srivastava, Anjali Awasthi, Soma Banerjee* on 'Development of Biowaste Derived Polymer Nanocomposites for Waste Water Treatment' in International Conference IIChE - CHEMCON 2023 Organized by Indian Institute of Chemical Engineers from December 27-30, 2023 at Heritage Institute of Technology, Kolkata

4. Oral Presentation by Akanksha Verma, Mata Mani Tripathi, Bablu Mordina, Kingsuk Mukhopadhyay, Mayank Dwivedi, Soma Banerjee* on 'NiCo2O4/NiCoSnS4 Nanocomposite based Asymmetric Supercapacitor Device for Energy Storage Application' in International Conference IIChE - CHEMCON 2023 Organized by Indian Institute of Chemical Engineers from December 27-30, 2023 at Heritage Institute of Technology, Kolkata

5. Oral Presentation on "Fabrication of rGO/PVA Composites by Layer Approach" by Babar Mirza, Aman Chandra Gupta, Anshu Alok, Akanksha Verma, Soma Banerjee in CHEM-TECHNOVA 2024 from 21-23 March, 2024 organized by IICHe student Chapter and HBTU Kanpur.

6. Oral Presentation on 'Synthesis and Characterization of Bio waste derived Carbon by Carbonization in a Tubular Furnace' by Rohit Nishad, Soma Banerjee* in CHEM-TECHNOVA 2024 from 21-23 March, 2024, organized by IICHe student Chapter and HBTU Kanpur.

7. Oral Presentation on 'Nanostructured NiCoSnO4 embedded with Pisum sativum Skin derived Activated Carbon for High Supercapacitor Device' by Akanksha Verma (Presenter), Bablu Mordina, Kingsuk Mukhopadhyay, Mayank Dwivedi, Soma Banerjee* (Presenter) in CHEM-TECHNOVA 2024 from 21-23 March, 2024 organized by IICHe student Chapter and HBTU Kanpur.