

Journal paper reviewer/editor
Department of Chemical Engineering

2025-26

1. **Siddhartha Sankar Boxi**, Reviewed a paper Ref: JFUE-D-25-10809 “Multi-scale pore structure and connectivity of lacustrine shale oil reservoirs in the Ordos Basin, China”, Fuel, Elsevier, 24.10.2025.
2. **Siddhartha Sankar Boxi**, Reviewed a paper Ref: WDS-D-25-00329 “Retting to Mechanization: Comparative Environmental Burdens of Coir Processing in Kerala”, World Development Sustainability, Elsevier, 14.10.2025.
3. **Barnali Bej**, Reviewed a paper “Optimization of wave power generation system using dielectric elastomer”, Journal: Academia Materials Science, Publisher: Academia.edu Journals, 18.08.2025.
4. **Sourav Poddar**, Reviewed a paper “Cannabidiol as a Modulator of the Gut-Liver Axis: Clinical and Pharmacological Insights into Hepatic and Metabolic Disorder Therapies”, Journal: Current Reviews in Clinical and Experimental Pharmacology, Publisher: Bentham Science, 02.11.2025.
5. **Anoar Ali Khan**, Reviewed a paper “Carbon dioxide point-source and direct air capture using biocatalytic textiles”, Journal: International Journal of Greenhouse Gas Control, Publisher: Elsevier, 23.09.2025.
6. **Anoar Ali Khan**, Reviewed a paper “Adsorptive removal of methyl red dye from the aqueous environment: A critical review”, Journal: Journal of Industrial and Engineering Chemistry, Publisher: Elsevier, 19.10.2025.
7. **Ankita Mazumder**, Reviewed a paper “Medium Optimization by Response Surface Methodology for Enhanced Petroleum Crude Oil Biodegradation by *Rhodococcus* Species Isolated from Motor Oil Contaminated Site”, Journal: Environmental Quality Management, Publisher: Wiley, 24.06.2025.
8. **Ankita Mazumder**, Reviewed a paper “Process intensification for used engine oil recycling: combining ultrafiltration and adsorption for superior pollutant removal”, Journal: Scientific Reports, Publisher: Springer Nature, 07.07.2025.

9. **Ankita Mazumder**, Reviewed a paper “Statistical optimization for removal of auramine O and rhodamine B from aqueous solutions”, Journal: Water and Wastewater Management, Publisher: Frontiers, 07.11.2025.
10. **Radharani Das**, Reviewed a Conference paper “A comparative study on Methyl Orange Degradation by Magnetite and nano zero valent Iron (nZVI)” International Conference Symposium, Calcutta University Chemical Engg. Alumni Association (CUChEAA) in December- 2025.
11. **Radharani Das**, Reviewed a Conference paper “Isotherm and Kinetic Analyses of Malachite Green Dye Adsorption : Integrated Approach with Bioremediation Technique” International Conference Symposium, Calcutta University Chemical Engg. Alumni Association (CUChEAA) in December- 2025.
12. **Ujjal Kumar Ghosh**, reviewed a paper “Effect of Pretreatment on the Combustion Kinetics of Sugarcane Bagasse: Comparison of Inert and Oxidative Torrefaction”, Journal: Biomass and Bioenergy, Publisher: Elsevier, 02/12/2025.
13. **Ujjal Kumar Ghosh**, reviewed a paper Solar Thermal Energy Storage Using $\text{La}_{0.2}\text{Sr}_{2.8}\text{MnO}_3$ Perovskite Oxides Redox Chemistry, Journal: **Material Proceedings**, Publisher: MDPI, 12/11/2025.
14. **Keka Rana**, Reviewed a paper “Kick Tolerance Modeling in Well Design and Drilling: A Comprehensive Technical Review”, Journal of Petroleum Engineering & Technology, Publisher: STM JOURNALS, 15.09.2025.
15. **Keka Rana**, Reviewed a paper “Application of Artificial Intelligence in Drug Discovery”, Emerging Trends in Chemical Engineering, Publisher: STM JOURNALS, 15.09.2025.
16. **Keka Rana**, Reviewed a paper “Analyis of Non-Uniform Damped Rayleigh Beam Resting on Pasternak Foundation Subjected to Distribued Load with Variable Axial Force”, International Journal of Composite Materials and Matrices, Publisher: STM JOURNALS, 09.10.2025.
17. **Keka Rana**, Reviewed a paper “Biopolymers in Medical Application: A Study”, International Journal of Polymer Science & Engineering, Publisher: STM JOURNALS, 09.10.2025.
18. **Keka Rana**, Reviewed a paper “Recent Trends in Bio Ceramic and Polymer Composites for Biomedical and Dental Applications”, International Journal of Composite Materials and Matrices, Publisher: STM JOURNALS, 13.10.2025.

19. **Keka Rana**, Reviewed a paper “Biostimulation of Petroleum Hydrocarbon Contaminated Soils Using Bryophylumpinnatum Extracts”, International Journal of Chemical Engineering and Processing, Publisher: STM JOURNALS, 14.10.2025.
20. **Keka Rana**, Reviewed a paper “e-Kidney Filtration System (EKS) using Sensor: A Study”, International Journal of Chemical Separation Technology, Publisher: STM JOURNALS, 01.12.2025.
21. **Sibsankar Rahut**, Reviewed a paper “Zeolitic imidazolate framework/graphene hybrid nanocomposites for downhole CO₂/H₂ separation during in-situ hydrogen production from hydrocarbon reservoirs”, Journal: Carbon capture science & technology, Publisher: Elsevier, 15.12.2025.
22. **Sibsankar Rahut**, Reviewed a paper “Approximate Analytical Modeling of Nonlinear CO₂ Adsorption Kinetics for Electrochemical and Energy Applications”, Journal: International Journal of Electrochemical Science, Publisher: Elsevier, 22.01.2026.
23. **Anoar Ali Khan**, joined as an Editorial Board Member for the journal “Discover Sustainability”, Springer nature, from 16th feb, 2026.
24. **Sourav Poddar**, Reviewed a paper “Microbiome Drug Interaction in Cancer Pharmacology: Mechanisms and Therapeutic Opportunities”, Journal: Current Reviews in Clinical and Experimental Pharmacology, Publisher: Bentham Science, 20.03.2026.
25. **Keka Rana**, Reviewed a paper “A Comprehensive Review on Bamboo-Based Composite Materials for Sustainable Engineering Applications”, Journal: International Journal of Composite Materials and Matrices (IJCMM), Publisher: STM Journals, 12. 01. 2026.
26. **Keka Rana**, Reviewed a paper “Solar Based Battery – Management System (BMS) and SOC Development”, Journal: International Journal of Renewable Energy and Its Commercialization, Publisher: STM Journals, 17. 01. 2026.
27. **Keka Rana**, Reviewed a paper “Thermo acoustic Properties of Ethanol-n-Hexane and 1-Propanol-n-Hexane Binary Mixtures: A Comparative Study at 298.15 K”, Journal: Journal of Modern Chemistry & Chemical Technology, Publisher: STM Journals, 22. 01. 2026.
28. **Keka Rana**, Reviewed a paper “Petroleum Engineering’s Future in a Changing Energy Environment”, Journal: Journal of Petroleum Engineering & Technology, Publisher: STM Journals, 27. 01. 2026.
29. **Keka Rana**, Reviewed a paper “Sustainable Manufacturing: The Role of Additive Technologies in Waste Reduction”, Journal: Journal of Materials & Metallurgical Engineering, Publisher: STM Journals, 07. 02. 2026.

- 30. Keka Rana**, Reviewed a paper “Catalytic Methods to produce 2, 5-Furandicarboxylic Acid from Glucose”, Journal: International Journal of Polymer Science & Engineering (IJPSE), Publisher: STM Journals, 13. 02. 2026.
- 31. Keka Rana**, Reviewed a paper “Catalytic Applications of Carbon Nanodots”, International Journal of Composite Materials and Matrices, Publisher: STM Journals, 16. 02. 2026.
- 32. Keka Rana**, Reviewed a paper “Synthesis, Characterization of New Imidazolidin-4-One Containing Azo Compound Derived from Acetylacetone as Antibacterial and Antioxidant Agents”, Journal of Modern Chemistry & Chemical Technology, Publisher: STM Journals, 14. 03. 2026.
- 33. Keka Rana**, Reviewed a paper “Alternative Biofuels as Sustainable Replacements for Fossil Fuels”, International Journal of Renewable Energy and Its Commercialization, Publisher: STM Journals, 26. 03. 2026.
- 34. Keka Rana**, Reviewed a paper “Bioplastics as an Renewable Source for Packaging”, International Journal of Polymer Science & Engineering, Publisher: STM Journals, 21. 04. 2026.
- 35. Barnali Bej**, Reviewed a paper “Microelectric field-enhanced air-lift A/O process: Mechanisms for advanced nutrient removal in low C/N rural domestic sewage”, Journal: Journal of Environmental Management, Publisher: Elsevier, 16.02.2026.
- 36. Barnali Bej**, Reviewed a paper “Oligo-cyanobacterial microalgae-bacteria granular sludge for mitigating cyanotoxin risk: Cultivation, characteristics, and formation mechanism”, Journal: Journal of Environmental Management, Publisher: Elsevier, 05.02.2026.
- 37. Siddhartha Sankar Boxi**, Reviewed a paper Ref: Article ID: 2190 “Synergistic Stability and Tribological Performance of Biodiesel-Derived Hybrid $\text{TiO}_2/\text{MoS}_2$ Tribofluids Based on a *Peltophorum pterocarpum* and Waste Cooking Oil Methyl Ester Blend”, Journal: Tribology in industry, Publisher: Tribology in industry, 18.05.2026.
- 38. Siddhartha Sankar Boxi**, Reviewed a paper Ref: JFUE-D-26-04813 “Predicting lacustrine shale oil sweet spots: Machine-learning-derived geochemical insights into anomalous Tmax suppression and free-oil enrichment”, Journal: Fuel, Publisher: Elsevier, 12.05.2026.
- 39. Sutapa Roy**, Reviewed a paper “Green Engineering Approach to the Extraction and Evaluation of Clove Essential Oil as a Natural Antioxidant and Health Booster”, Journal: Indian Chemical Engineer, Publisher: Taylor & Francis, 03.12.2025.