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**Academic Qualifications**

**Ph.D. –Indian Institute of Technology Dhanbad [I.I.T.(ISM)-Dhanbad]**

**B.Tech. (Chemical Engineering) – Birsa Institute of Technology, Sindri, India**

**Research Publications**

1. Achinta Bera, **Shashikant Kumar**, Ajay Mandal, Temperature-Dependent Phase Behavior, Particle Size, and Conductivity of Middle-Phase Microemulsion Stabilized by Ethoxyvalated Nonionic Surfactant, **Journal of Chemical & Engineering Data**, **2012**, 57, 3623-3627.
2. V. K. Rajak, K.K. Relish, **Shashikant Kumar** and Ajay Mandal, Mechanism and Kinetics of Separation of Oil from Oil-in-Water Emulsion by Air Flotation, **Petroleum Science and Technology** **2015** (33) 1861-1868.
3. **Shashikant Kumar**, ChandanGuria and Ajay Mandal, Synthesis, characterization and performance studies of polysulfone/bentonite nanoparticles mixed-matrix ultra-filtration membranes using oil field produced water, **Separation and Purification Technology** **2015**, 150, 145-158.
4. **Shashikant Kumar**, ChandanGuria and Ajay Mandal, characterization and stability analysis of crude oil-water emulsions, **Journal of Petroleum Engineering & Technology**. **2015**, 5, 1-10.
5. **Shashikant Kumar**, ChandanGuria and Ajay Mandal, Synthesis, characterization and performance studies of polysulfone and polysulfone/polymer-grafted bentonite based ultrafiltration membranes for the efficient separation of oil field oily wastewater, **Process Safety and Environmental Protection**. 102(**2016**) 214–228.
6. **Shashikant Kumar**, Barun Kumar Nandi, ChandanGuria and Ajay Mandal, Oil removal from produced water by ultrafiltration using polysulfone membrane, **Brazilian Journal of Chemical Engineering**. DOI: 10.1590/0104-6632.20170342S20150500.
7. Rasool, Tanveer; **Kumar, Shashikant**, Kinetic and Thermodynamic Evaluation of Pyrolysis of Plant Biomass using TGA DOI: 10.1016/J.MATPR.2020.01.328.
8. Ash Mohammad, **Shashikant Kumar**, Adsorptive and Bio Removal of Fluoride from Synthetic Waste Water by using Actinobacter Immobilized on the Surface of Sweet Lemon Peel, 2019 in International Journal of Engineering Research and Technology.

**Book Published**

1. **Shashikant Kumar**, ChandanGuria and Ajay Mandal, Membrane filtration for separation of oil from oil-in-water emulsion, LAMBERT ACADEMIC PUBLISHING, ISBN No. 978-3-330-01547-0.

**International and National Conference Attended**

1. **Shashikant Kumar**, ChandanGuria and Ajay Mandal, Characterization and stability analysis of crude oil-in-water emulsions, Department of Ocean Engineering, Indian Institute of Technology Madras, E-proceedings of the third International Conference on Petroleum Science and Technology 2014 (ICPST-2014: [www.icpst.in](http://www.icpst.in)), November 3-5, 2014, 431-436.
2. **Shashikant Kumar**, AchintaBera, Ajay Mandal, KekaOjha, Characteristics flow of oil-in-water emulsion through porous media in enhanced oil recovery, National Conference on Recent Advanced in Chemical and Environmental Engineering (RACEE-2012), Chemical Engg. Department NIT Rourkela, January 20-21, 2012.