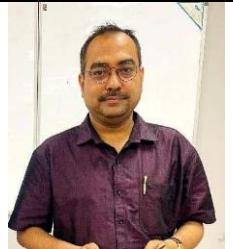


PROFILE OF DR. SUDIP BANERJEE

Name	Dr. Sudip Banerjee	
Designation	Asst. Professor (Consolidated)	
Qualification	B.Tech (Hons.) (V.U.), M. Tech (NIT Dgp), PhD (IIT Kgp).	
Email ID	consudip@gmail.com , 2bsudip@igitsarang.ac.in	
Phone No.	+91-9556267323	
Specialization	Process intensification, Chemical reaction engineering, Modeling and simulation, Control system, Artificial intelligence.	

Publication(s):

- [1] **S. Banerjee**, A. K. Jana, High gain observer based extended generic model control with application to a reactive distillation column, *J. Process Control* 24 (2014) 235-248 [Elsevier].
- [2] **S. Banerjee**, A. K. Jana, Dynamic vapor recompression in a reactive batch rectifier: analysis and nonlinear control. *Energy* 115 (2016) 60-66 [Elsevier].
- [3] **S. Banerjee**, A. K. Jana, Internally heat integrated batch distillation: vapor recompression and nonlinear control, *Sep. Purif. Technol.* 189 (2017) 267-278 [Elsevier].
- [4] A. K. Jana, **S. Banerjee**, Neuro estimator based inferential extended gmc control law for a reactive distillation column, *Chem. Eng. Res. Des.* 130 (2018) 284-294 [Elsevier].
- [5] **S. Banerjee**, A. K. Jana, Observer-based extended generic model control of ethyl acetate reactive batch distillation column, *Chem. Eng. Sci.* 179 (2018) 185-197 [Elsevier].
- [6] Md. Aurangzeb, **S. Banerjee**, Impact of coal mining on airborne particles based on real-time data, *Pollut. Res.* 40(3) (2021) 868-876 [E.M. International].
- [7] T. Mahapatra, S. Manekar, V. Kumar, A. K. Soni, **S. Banerjee**, P. Ghosh, Green synthesized Ag-TiO₂ for degradation of organic dye through visible light driven photo-reactor and its kinetics, *Int. J. Chem. React. Eng.* 19(9) (2021) 893-900.
- [8] **S. Banerjee**, Md Aurangzeb & A. Kumar : A kinetic model and parameters estimate for the synthesis of 2-phenyloctane: a starting material of bio-degradable surfactant, *Indian Chemical Engineer* (Taylor & Francis) 65 (1) 2022 1-13.
- [9] D. Ghime; V. Kumar; T. Mohapatra; N. Sonwani, S. Pradhan; P. Ghosh, S. Dharmadhikari, **S. Banerjee**, ZnO/Bone-Char Hybrid Composite: Catalyst Preparation, Characterization, and Its Application, *Iran. J. Chem. Chem. Eng.* 41 (2022) 1186-1198.
- [10] Md. Aurangzeb, **S. Banerjee**, D. Das, P. Ghosh, Performance Investigation of MISO Soft Sensors in Predicting AQI: A Comparative Analysis, *Indian Chem. Eng.* (2024) 1-24. (Taylor & Francis).
- [11] Md. Aurangzeb, **S. Banerjee**, S. Roy, R. Tejasvi, Energy-Efficient Dividing-Wall Column for Separating Wide Boiling Mixture: Optimal Design and Servo Control Strategy (2024), *Asia-Pac. J. Chem. Eng.* (Wiley) (Published on 21 March 2024).
- [12] Md. Aurangzeb, **S. Banerjee**, S. Roy, R. Tejasvi, A novel heat integrated double extractive divided-wall column avoiding vapor recompression system in water purification from petrochemical, *Chem. Eng. Process.* (July 2024) 109831 [Elsevier].

Other Info

Life Member (LM-54296) Indian Institute of Chemical Engineers (IICHE), India.

Life Member (LM-06674) Indian Society of Systems for Science & Engineering (ISSE).

Work Experience

- Assistant Professor (On Contract.) at Indira Gandhi Institute of Technology from Sept-2018 to Present
- Assistant Professor at C.V. Raman College of Engineering from Nov-2016 to June'2018
- Senior Research Fellow (CSIR) SRIC at IIT Kharagpur from Oct-2010 to March-2014
- Lecturer at DIATM, Rajbandh, Durgapur from Feb-2006 to Oct-2010
- Lecturer at CIT, Howrah from June-2005 to Feb-2006