

## **Dr. Anjali Awasthi**

Assistant Professor, Chemical Engineering  
Harcourt Butler Technical University, Kanpur (India)

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### **Academic Details**

- Ph.D. (Chemical Engineering) from Malaviya National Institute of Technology, Jaipur in 2022 (PhD Topic: Application of Solvent Impregnated resins for the treatment of wastewater containing Reactive dyes).
- M. Tech. (Chemical Engineering) from H.B.T.I., Kanpur in 2013 (First Division with Honors), M.Tech Topic: A Particle Size Distribution Model for Butyl Acrylate Emulsion Polymerization.
- B.Tech. Chemical Engineering from AITH, Kanpur in 2011. (First Division)

### **Academic Experience**

- Guest Lecturer, Rajkiya Polytechnic, Kanpur (February, 2014 to May, 2014)
- Guest Lecturer, HBTI, Kanpur (July, 2014 to June, 2015 and August, 2015 to June, 2016)
- Guest Lecturer, AITH, Kanpur (September, 2016 to June 2017)

### **Papers Published in SCI/SCOPUS Journals**

- Anjali Awasthi and, Dipaloy Datta, “Application of Amberlite XAD-7HP resin impregnated with Aliquat 336 for the removal of Reactive Blue - 13 dye: Batch and fixed-bed column studies”, Journal of Environmental Chemical Engineering, 2019, 7, 6, 103502. (SCI)
- Anjali Awasthi, Ankit Arya, Priyanka Gupta, Rahul Kumar, Jagveer Singh, and Dipaloy Datta, “Adsorption of Reactive Blue-13 dye, an Acidic Dye, from Aqueous Solution using Magnetized Activated Carbon”, Journal of Chemical & Engineering Data, 2020, 65, 4, 2220-2229. (SCI)
- Anjali Awasthi, Dipaloy Datta, “Removal of Reactive Orange 16 and Reactive Green 19 Using Cyphos IL101 Impregnated Amberlite XAD7HP Resin in Batch and Recirculating Stirrer Vessel”, Environmental Science and Pollution Research, 2021, Vol. 00, ISSN: 1614-7499. (SCI)
- Anjali Awasthi, Muzaffar Iqbal, Sakshi Batra, Ankit Arya, and Dipaloy Datta, “Ultra-sonication Assisted Removal of an Anionic Dye Using Solvent Impregnated Resin:

Response Surface Methodology Optimization”, Journal of Indian Chemical Society, 2020, 97, 1-5. (SCI-E)

- Sakshi Batra, Anjali Awasthi, Muzaffar Iqbal, and Dipaloy Datta; Solvent Impregnated Resins for the Treatment of Aqueous Solutions Containing Different Compounds: A Review, Reviews in Chemical Engineering; 2020, Vol.: 00, ISBN: 0167-8299. (SCI)
- Ashwini Sood, Anjali Awasthi & Ranjana Bharti, “A Population Balance Model for Butyl Acrylate Emulsion Polymerization”, Indian Chem. Eng., Vol. 58 No.1 March 2016, pp. 40– 60. (SCOPUS)
- Muzaffar Iqbal, Anjali Awasthi, Dipaloy Datta, Effective removal of methyl orange dye using Aliquat-336 impregnated Amberlite XAD-2 resin, Chemical Data Collections, 35, 2021 (SCI).
- Sakshi Batra, Ankit Arya, Muzaffar Iqbal, Anjali Awasthi and Dipaloy Datta, "Amberlite resin functionalized with phosphorous based solvent for the separation of bisphenol-A: Batch studies", Journal of Indian Chemical Society, 2020, 97, 1-4. (SCI-E)
- Ashwini Sood, Ranjana Bharti & Anjali Awasthi, “Modelling of Butyl Acrylate Emulsion Polymerization: A Detailed Lumped Parameter Approach”, Indian Chem. Eng., 54, pp. 235–244 (2014). (SCOPUS)

#### **Paper Presented in International/National Conferences**

- Anjali Awasthi, Sakshi Batra and Dipaloy Datta, “Removal of Reactive dye using Solvent Impregnated Resin”, International Journal of Chemical Engineering and Applications IJCEA 2019, Vol. 10 (2), 40-45, ISSN: 2010-0221. (Paper Present and Published in ICCCP 2019, NUS Singapore, February 25-28, 2019)
- Dipaloy Datta, Anjali Awasthi, Sakshi Batra, Muzaffar Iqbal, “Synthesis and Characterization of Aliquat 336 Impregnated Porous-Polymeric Resin, Amberlite XAD-7 and Its Application for Methyl Orange Removal using Ultrasonication” presented in World Congress on Materials Science and Technology, June 04-06, 2019 Paris, France.
- Anjali Awasthi, Dipaloy Datta, “Effective Removal of Reactive Orange 16 Dye using Impregnated Resin” presented in CHEMCON, IIT-Delhi, India, December 15-19, 2019.
- Anjali Awasthi, Dipaloy Datta “Removal of Reactive Green19 dyes using impregnated resin (Aliquat336+Amberlite XAD7HP) in batch process and recirculating stirrer vessel” International Conference on Water Desalination, Treatment, Management & Annual Congress of InDA (InDACON), MNIT Jaipur, March 19-20, 2021.

#### **Workshop Attended**

- AICTE Sponsored Short Term Course On “Recent Advances in Wastewater Treatment (RAWT-2017)” June 26 – 30, 2017, organized at IIT BHU.

- TEQIP workshop on “Advanced Materials Characterization Techniques” Dated: 27 August - 01 September, 2019, organized at IIT Hyderabad.
- TEQIP III workshop on “Cleaner Technologies for Sustainable Environment” organized at IIT Hyderabad between December 21 - 25, 2020.
- AICTE Training and Learning (ATAL) on “Advance of Pollution Control Technologies and Sustainable Development” organized at MNIT Jaipur between August 02 - 08, 2021.
- IEEE UP Section workshop on “Research Related Solutions for Faculty and Research Scholars” organized at Rajiv Gandhi Institute of Petroleum Technology, Amethi between January 31 – February 04, 2022.
- workshop on “Process Simulators for Chemical Engineering Application (ASPEN & DWSIM)” organized at MNIT, Jaipur between January 13 – 17, 2022.

### **Achievement**

- Awarded IICHE NRC Award 3rd Best Paper in "Indian Chemical Engineer" 2016 for the paper “A Population Balance Model for Butyl Acrylate Emulsion Polymerization, Indian Chemical Engineer, 58, 40-60, 2016”. The award was given in CHEMCON - 2017, Indian Institute of Chemical Engineers, Haldia, Dec. 27-30, 2017.
- Awarded 2nd Best Presentation in "International Conference on Water Desalination, Treatment & Management & Annual Congress of InDA (InDA CON - 2021)" for the paper “Removal of Reactive Green19 dyes using impregnated resin (Aliquat336 + Amberlite XAD7HP) in batch process and recirculating stirrer vessel”. The award was given in InDA CON - 2021, Malaviya National Institute of Technology, Jaipur, March 19-20, 2021.

### **Any Other Relevant Information**

- Life Member of Indian Desalination Association.