

Dr. Tushar Kanti Sen

Associate Professor



Personal Data:

Nationality | Australia
Date of Hire | 14th March 2022
Date Rank Obtained | 1st Dec 2015
Department | Chemical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Chemical Engineering	Colloid and contaminant transport, Water and wastewater treatment, Adsorption, Separation process	Indian Institute of Technology (IIT), Bombay	Powai, Mumbai 400076, India	Dec 2001
Masters (M.Sc.)	Chemical Engineering	Process dynamics & control	Jadavpur University, Kolkata, India	S. C. Mullick Road, Kolkata 700032, India	Feb 1990
Bachelor (B.Sc.)	Chemical Engineering	Chemical Engineering	University of Calcutta, India	University college of Science and Technology, A. P. C. Road, Raja bazar, Kolkata 700009, India	June 1988

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Title: Studies on Colloidal Fines-Associate Contaminant Transport in Porous Media. Shah-Schulman" award for the best PhD
Master	Title: Development of an adaptive controller for non-linear pH control system-University Gold medal

Experiences:

Title of Job	Address of Work	Country	Date	
Associate Professor	King Faisal University, Al-Ahsa	Saudi Arabia	From	March 2022
			To	present
Adjunct Associate Professor	Curtin University, Perth	Australia	From	April 2019
			To	Present

Associate Professor	Curtin University, Perth	Australia	From To	Dec 2015 March 2019
Senior Lecturer	Edith Cowan University, Perth	Australia	From To	July 2019 Jan 2021
Senior Lecturer	Curtin University	Australia	From To	Aug 2011 Nov, 2015
Lecturer	Curtin University	Australia	From To	Jan 2008 July 2011
Senior Lecturer	Universiti Teknologi PETRONAS	Malaysia	From To	Jan 2006 Dec 2007
Assistant Professor	National Institute of Technology (NIT), Rourkela	India	From To	Aug 2002 Dec 2005
Lecturer/Senior Lecturer	National Institute of Technology (NIT), Rourkela-Formerly REC	India	From To	Aug 1991 July 2002

Research Interests:

1. Water and Wastewater
2. Energy
3. Environment
4. Materials
5. Adsorption/Biosorption
6. Solid wastes utilization

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Tushar Kanti Sen	Agricultural Solid Wastes based Adsorbent Materials in the Remediation of Heavy Metal Ions from Water and Wastewater by Adsorption: A Review	Molecules, Multidisciplinary Digital Publishing Institute (MDPI), 2023, 28 (14), 555	Click Here
2	Tushar Kanti Sen	Adsorptive removal of dye (methylene blue) organic pollutant from water by pine tree leaves biomass adsorbent	Processes, Multidisciplinary Digital Publishing Institute (MDPI), 2023, 11, 1877.	Click Here
3	Tushar Kanti Sen	Application of Synthesized Biomass Bamboo Charcoal–Iron Oxide “BC/Fe”	Sustainability, Multidisciplinary Digital Publishing	Click Here

		Nanocomposite Adsorbents in the Removal of Cationic Methylene Blue Dye Contaminants from Wastewater by Adsorption.	Institute (MDPI), 2023, 15(11), 8841	
4	Nur Syahirah Mohamed Hatta, Shiew Wei Lau, Han Bing Chua, Masahiro Takeo, Tushar Kanti Sen, Nabisab Majawar Mubarak, Mohammad Khalid, Danial Aminin Zairin	Parametric and kinetic studies of activated sludge dewatering by cationic chitosan-like bioflocculant BF01314 produced from <i>Citrobacter youngae</i>	Environmental Research, Elsevier, 2023 Vol. 224, 115527.	Click Here
5	Mitra Golgoli, Mehdi Khiadani, Tushar Kanti Sen, Amir Razmjou, Michael L. Johns, Masoumeh Zargar	Synergistic effects of microplastics and organic foulants on the performance of forward osmosis membranes	Chemosphere, Elsevier, 2023, Vol. 311, 136906	Click Here
	Sanjay Shinde, Anteneh Mesfin Yeneneh, Tahereh Jafary, Eugene Hong, Khadija Al Balushi, Tushar Kanti Sen, Parveen Fatemeh Rupani	Metal Cation and Surfactant Assisted Flocculation for Enhanced Dewatering of Anaerobically Digested Slud	Sustainability 2023, 15, 344	Click Here
6	Machale J, Majumder SK, Ghosh P, Sen TK, Saeedi, S	The Role of Adsorption of a Natural Surfactant at Oil–Water Interface in Enhanced Oil Recovery: Interfacial Structural Analysis and Rheology	Chemical Engineering Communication, Taylor & Francisco, 2023, vol. 210, issue 12, pp. 2189-2203. Pub date 7th April 2023	Click Here
7	Sayeed Rushd, Hicham Ferroudji, Hazzaz Yousuf, Travis Walker, Avijit Basue, Tushar Sen	Applications of Drag Reducers for the Pipeline Transportation of Heavy Crude Oils: A Critical Review and Future Direction	The Canadian Journal of Chemical Engineering, Wiley online, pub date -30th June 2023	Click Here

Language Proficiency:

1. English
2. Bengali
3. Hindi
4. Oriya
5. Asami