Sher Ahmad

Assistant Professor

School of Chemical & Materials Engineering

Email: sher.ahmad@scme.nust.edu.pk
Contact:

About

Dr. Sher Ahmad is working as Assistant Professor in the School of Chemical & Materials Engineering. Dr. Sher Ahmad has a PhD in Chemical engineering . Dr. Sher Ahmad has published 13 research articles & conference papers having a citation count of 107, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Chemical engineering 2017 - 2020
Université de Montpellier II , France

MS in Chemical engineering 2012 - 2014
N.W.F.P University of Engineering & Technology Peshawar , Pakistan

BS in Chemical engineering 2007 - 2011
UET Peshawar , Pakistan

Experience

Assistant Professor 2023- Present
School of Chemical & Materials Engineering

Assistant Professor 2022 - 2021
School of Chemical & Materials Engineering

Assistant Professor 2021 - 2022
School of Chemical & Materials Engineering

Researcher 2021 - 2022
University of Liege , Place du 20 Août 7, 4000 Liège, Belgium

Pakistan Atomic Energy Commission 2017 - 2017
Pakistan sectariat N Block Islamabad , 2014-05-28

Research Articles

Integrative CFD and AI/ML-based modeling for enhanced alkaline water electrolysis cell performance for hydrogen production 2024
Abdullah Sirat Sher Ahmad Iftikhar Ahmad Nouman Ahmad Muhammad Ahsan
International Journal of Hydrogen Energy, Volume 83, Pages 1120-1131
Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 5
DOI: https://doi.org/10.1016/j.ijhydene.2024.08.184

Multiscale CFD modelling of porous monoliths for heterogeneous catalysis of Knoevenagel condensation 2024
Tahir Mahmood Ahmed Sher Ahmad Jose Sanchez Marcano
Chemical Engineering Journal, Volume 493, Article Number 152379
Impact Factor: 13.300 | **Quartile:** 1 | **Citations:** 3
DOI: https://doi.org/10.1016/j.cej.2024.152379

NH3-SCR over Fe/SSZ-13 catalyst prepared by modification of natural chabazite 2024
Ameen Shahid Nabeel Ahmad Dr. Nouman Ahmad Sher Ahmed
Case Studies in Chemical and Environmental Engineering, Volume 10 , Article Number 100842
Impact Factor: N/A
DOI: https://doi.org/10.1016/j.cscee.2024.100842

Continuous flow hydrothermal synthesis of zeolite LTA in intensified reactor. Experimental and multiphysics CFD modeling approach 2023

Sher Ahmad Lilia Ben Mustapha Sebastien Calvo François Collignon Antony E. Fernandes Dominique Toye

Chemical Engineering and Processing - Process Intensification, Volume 189, Article Number 109399

Impact Factor: 4.3 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.1016/j.cep.2023.109399

Challenges and issues with the performance of boron nitride rooted membrane for gas separation 2022

Zarrar Salauddin Marghoob Ahmed SarahFarrukh Sher Ahmad Abulhassan Ali Sofia Javed Arshad Hussain Mohammad Younas Sehar Shakir Awais Bokhari Abdulkader S. Hanbazazah

Chemosphere , Volume 308, Part 1, Article Number 136002

Impact Factor: 8.8 | **Quartile:** 1 | **Citations:** 11

DOI: https://doi.org/10.1016/j.chemosphere.2022.136002

Experimental and modeling of tetracycline degradation in water in a flow-through enzymatic monolithic reactor 2022

Sher Ahmad Wasimm Sebai Marie-pierre Belleville Nicolas Brun Anne Galarneau José Sanchez-Marcano

Environmental Science and Pollution Research, Pages 1-11

Impact Factor: 5.8 | **Quartile:** 1 | **Citations:** 3

DOI: https://doi.org/10.1007/s11356-022-21204-y

Biocatalytic Elimination of Pharmaceutics Found in Water With Hierarchical Silica Monoliths in Continuous Flow 2022

Wasim Sebai Sher Ahmad Marie-Pierre Belleville Nicola Brun Jose sanchez Marcano Alexis Boccheciampe Perrine Chaurand Clément Levard Anne Galarneau

Frontiers in Chemical Engineering, Volume 4, Article Number 823877

Impact Factor: N/A | **Citations:** 12

DOI: 10.3389/fceng.2022.823877

Development of mass and heat transfer coupled model of hollow fiber membrane for salt recovery from brine via osmotic membrane distillation 2021

Sher Ahmad Gabriela Vollet Marson Waheed Ur Rehman Mohammad Younas Sarah Farrukh Mashallah Rezakazemi

Environmental Sciences Europe , Volume 33, Article Number 81

Impact Factor: 5.481 | **Quartile:** 2 | **Citations:** 9

DOI: https://doi.org/10.1186/s12302-021-00520-z

Enzymatic monolithic reactors for micropollutants degradation 2021

Nicola Brun Sher Ahmad Wasim Sebai Marie-Pierre Belleville Anne Galarneau Jose sanchez Marcano

Catalysis Today , Volume 362, Pages 62-71

Impact Factor: 6.766 | **Quartile:** 1 | **Citations:** 18

DOI: https://doi.org/10.1016/j.cattod.2020.04.048

Mass transfer modelling of hollow fiber membrane contactor for apple juice concentration using osmotic membrane distillation 2020

Sher Ahmad Gabriela Vollet Marson Waheed Zeb Waheed Ur Rehman Mohammad Younas Sarah Farrukh Mashallah Rezakazemi

Separation and Purification Technology, Volume 250, Article Number 117209

Impact Factor: 7.312 | **Quartile:** 1 | **Citations:** 37

DOI: https://doi.org/10.1016/j.seppur.2020.117209

Enzymatic Degradation of Micropollutants in Water: the Case of Tetracycline Degradation by Enzymes Immobilized on Monoliths 2020

Sher Ahmad Wasim Sebai Mariepierre Belleville Nicolas Brun Jose Sanchez Marcano Anne Galarneau

Chemical Engineering Transactions , Volume 79, Pages 403-408

Impact Factor: N/A | **Citations:** 4

DOI: https://doi.org/10.3303/CET2079068

Conference Proceedings

Synthesis and Characterization of Activated Carbon and its Application for Wastewater Treatment 2023

Farhan Raheel A Rafay Bushra Bibi Sher Ahmad Zeeshan Ali Mohsin Saleem M Shoaib Butt Atiq Ur Reham Muhammad Irfan

The 6th Conference on Emerging Materials and Processes (CEMP 2023), res.country(177,)

Citations: N/A

DOI: Nil

Book Chapters

Facilitated Transport Membranes (FTMs) for Natural Gas Purification (CO2/CH4) 2023

Syed Shujaat Karim Sher Ahmad Sarah farrukh

In: *Book on Facilitated Transport Membranes (FTMs) for CO2 Capture: Overview and Future Trends*, Chapter 4, Pages 93-118

Citations: 1

DOI: https://doi.org/10.1007/978-3-031-21444-8_4