Ammar Tariq

Assistant Professor

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About

Dr. Ammar Tariq is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Ammar Tariq has a PhD in Power Engineering and Engineering Thermophysics . Dr. Ammar Tariq has published 11 research articles & conference papers having a citation count of 44, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Power Engineering and Engineering Thermophysics Shanghai Jiaotong University , China	2017 - 2022
MSc in Engineering Mechanics Royal Institute of Technology , Sweden	2009 - 2012
BE in Mechanical Engineering NUST, Islamabad , Pakistan	2003 - 2007
Experience	
Assistant Professor School of Mechanical & Manufacturing Engineering	2024- Present
Assistant Professor School of Mechanical & Manufacturing Engineering	2023 - 2024
Assistant Professor School of Mechanical & Manufacturing Engineering	2017 - 2023
Assistant Professor School of Mechanical & Manufacturing Engineering	2015 - 2017
Lecturer School of Mechanical & Manufacturing Engineering	2012 - 2015
Assistant Manager Sales Skyways Services , Plot # 203, St # 01, Industrial Area, Sector I-10/3, Islamabad	2009 - 2009
Sales Engineer Skyways Services , Plot # 203, St # 01, Industrial Area, Sector I-10/3, Islamabad	2008 - 2009

Research Projects

National Projects

Flow Behavior of Aerosols in Human Respiratory Tract to Optimize the Drug Delivery for Better

Treatment in Pulmonary Diseases

Funding Agency: HEC Amount: PKR 21,060,000.00 Status: Completed

International Projects

Research Articles Heliox: An advanced method for targeted drug delivery in respiratory airways 2025 Umar Farooq Hafiz Hamza Riaz Adnan Munir Ammar Tariq Tzu Chi Chan Ming Zhao Mohammad S. Islam Journal of the Taiwan Institute of Chemical Engineers, Volume:176, Article Number 106323 Impact Factor: 6.300 | Quartile: 1 DOI: https://doi.org/10.1016/j.jtice.2025.106323 Effect of Metallic and Ceramic Coatings on Structural Behavior of Heavy-Duty V8 Engine Using Finite 2025 **Element Analysis** Hafsa Khan Fatima Tu Zahra Naveed Husnain Muhammad Farooq Zaman Ammar Tariq Farrukh Arsalan Siddiqui Syed Masood Arif Bukhari Hassan Raza Muhammad Tuoqeer Anwar Wasif Ahmed Advanced Theory and Simulations, Pages 1-12 Impact Factor: 2.900 | Quartile: 2 DOI: https://doi.org/10.1002/adts.202500151 Design, analytical and computational analysis, and development of a high-precision CNC spindle for a 2024 vertical machining center Muhammad Abdullah Syed Masood Arif Bukhari Naveed Husnain Muhammad Farooq Zaman Ammar Tariq Farrukh Arsalan Siddiqui Rauf Ahmad Muhammad Dawood Nasir Engineering Research Express, Volume 6, Number 3, Article Number 035568 Impact Factor: 1.500 | Quartile: 2 | Citations: 4 DOI: 10.1088/2631-8695/ad78a7 Pore-Scale Study of Gas Natural Convection in Confined Porous Media Based on Lattice Boltzmann 2024 Method Ammar Tariq Yueqi Zhao Adnan Munir Peilin Cui Zhenyu Liu Journal of Heat Transfer, Volume 146(2), Article Number 022701 (14 pages) Impact Factor: 2.800 | Quartile: 2 | Citations: 1 DOI: https://doi.org/10.1115/1.4063903 Application of heliox for optimized drug delivery through respiratory tract 2023 Hafiz Hamza Riaz Adnan Munir Ming Zhao Ammar Tariq Mohammad Saidul Islam Umar Farooq Physics of Fluids, Volume 35, Article Number 103321 Impact Factor: 4.6 | Quartile: 1 | Citations: 10 DOI: https://doi.org/10.1063/5.0169934 Heat transfer and friction factor correlations for slip gaseous fluid flow in confined porous medium with 2022 pore-scale LBM modelling Ammar Tariq Zhenyu Liu International Journal of Thermal Sciences, Volume 173, Article Number 107382 Impact Factor: 4.5 | Quartile: 1 | Citations: 14 DOI: https://doi.org/10.1016/j.ijthermalsci.2021.107382 2021 A pore-scale analysis for friction factor and permeability in confined porous medium with LB method Ammar Tariq Zhenyu Liu

2020

International Communications in Heat and Mass Transfer, Volume 127, Article Number 105559

Impact Factor: 6.782 | Quartile: 1 | Citations: 9

Impact Factor: 2.021 | Quartile: 3 | Citations: 6

Ammar Tariq Peng Li Anyi Xu Zhenyu Liu

DOI: https://doi.org/10.1115/1.4047514

DOI: https://doi.org/10.1016/j.icheatmasstransfer.2021.105559

A correlation for nusselt number of slip gas flow in confined porous media

Journal of Heat Transfer, Volume 142, Issue 9, Article Number 092702

Conference Proceedings

Slip gas flow and heat transfer in confined porous media with different shape cylinders

Ammar Tariq Zhenyu Liu

Proceedings of the ASME 2021 Heat Transfer Summer Conference, HT 2021, res.country(48,)

Citations: N/A

DOI: 10.1115/HT2021-63408

Nusselt number prediction for slip flow in confined porous media based on lattice Boltzmann method

2019

2021

Ammar Tariq Zhenyu Liu Zhiyu Mu Huiying Wu

ASME 2019 6th International Conference on Micro/Nanoscale Heat and Mass Transfer, MNHMT 2019, res.country(48,)

Citations: N/A

DOI: 10.1115/MNHMT2019-4192

CPC-Trough—Compound parabolic collector for cost efficient low temperature applications

2007

Muhammad Nadeem Baig Asad Khan Durrani Ammar Tariq Proceedings of ISES World Congress 2007, res.country(48,)

Citations: N/A

DOI: 10.1007/978-3-540-75997-3_111