

Muhammad Israr

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NUST Institute of Civil Engineering

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About

Dr. Muhammad Israr is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Muhammad Israr has a PhD in Fluid Mechanics. Dr. Muhammad Israr has published 18 research articles & conference papers having a citation count of 165, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Fluid Mechanics Petronas Technology University , Malaysia	2011 - 2015
MS in Mathematics COMSATS Institute of Information Technology , Pakistan	2007 - 2009
BS in Mathematics COMSATS Institute of Information Technology , Pakistan	2003 - 2007

Experience

Assistant Professor NUST Institute of Civil Engineering	2020- Present
Assistant Professor NUST Institute of Civil Engineering	2017 - 2017
Assistant Professor (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2017 - 2017
Post-Doctoral Researcher Universiti Teknologi PETRONAS , Seri Iskanadr, Perak, Malaysia	2015 - 2017
Graduate Assistant Universiti Teknologi PETRONAS , Perak, Malaysia	2011 - 2015
Visiting Lecturer AIR University , Islamabad, Pakistan	2011 - 2011

Research Articles

Boosting the photoexcited charge collection and transportation via BiVO4/Fe-TiO2 NRs in Type-II heterojunction for efficient photoelectrochemical water splitting <i>Fazeelat Rehman Noor Alam Manzar Sohail Muhammad Ahmad Muhammad Israr Muhammad Imran Irshad Dr Asad Mumtaz</i> <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , Volume 444, Article Number: 114956 Impact Factor: 5.14 Quartile: 2 Citations: 9 DOI: 10.1016/j.jphotochem.2023.114956	2023
Combination of linear stochastic estimation and proper orthogonal decomposition: application in two-phase slug flow <i>Muhammad Israr Shahzad Munir Abdul Rashid Abdul Aziz Morgan Heikal</i> <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , Volume:45, Issue:2, Article number: 112 Impact Factor: 2.361 Quartile: 3 Citations: 4 DOI: 10.1007/s40430-023-04013-3	2023
Proper Orthogonal Decomposition Based on Vorticity: Application in a Two-Phase Slug Flow <i>Shahzad Munir Muhammad Israr Abdul Rashid bin Abdul Aziz Morgan Heikal Umer Farooq</i>	2022

<i>Journal of Fluids Engineering</i> , Volume 144(4), Article Number 041501	
Impact Factor: 1.995 Quartile: 3 Citations: 9	
DOI: https://doi.org/10.1115/1.4052924	
Numerical analysis of entropy generation in the stagnation point flow of Oldroyd-B nanofluid	2022
<i>Shahzad Munir Asma Maqsood Umer Farooq Muzamil Hussain Muhammad Israr Taseer Muhammad</i>	
<i>Waves in Random and Complex Media</i> , Pages 1-17	
Impact Factor: 4.051 Quartile: 2 Citations: 7	
DOI: https://doi.org/10.1080/17455030.2021.2023782	
Bifurcation analysis and chaos control in discrete-time modified Leslie–Gower prey harvesting model	2020
<i>Umer Saeed Muhammad Israr Muhammad Bilal Ajaz Qamar Din Irfan Ali</i>	
<i>Advances in Difference Equations</i> , Volume 2020, Article Number 45	
Impact Factor: 2.421 Quartile: 1 Citations: 21	
DOI: https://doi.org/10.1186/s13662-020-2498-1	
Tumble Motion Evolution for GDI Engine Using Particle Image Velocimetry (PIV)	2018
<i>Mohammed EL-Adawy M. R Heikal A. Rashid A. Aziz Hasanain A. Abdul Wahhab Mhadi A. Ismael Muhammad Israr</i>	
<i>Journal of Mechanical Engineering</i> , Engineering	
Impact Factor: N/A	
DOI: https://ir.uitm.edu.my/id/eprint/41733/1/41733.pdf	
Effect of Boost Pressure on the In-Cylinder Tumble- Motion of GDI Engine under Steady-State Conditions using Stereoscopic-PIV	2018
<i>Mohammed El Adawy M. R. Heikal A. Rashid A. Aziz S. Munir Muhammad Israr</i>	
<i>Journal of Applied Fluid Mechanics</i> , NULL	
Impact Factor: 0.914 Quartile: 4	
DOI: 10.18869/acadpub.jafm.73.246.28506	
Experimental study on an IC engine in-cylinder flow using different steady-state flow benches	2017
<i>M. El-Adawy A. Rashid A. Aziz Hasanain A. Abdul Wahhab M. R Heikal Muhammad Israr</i>	
<i>Alexandria Engineering Journal</i> , Volume 56, Issue 4, Pages 727-736	
Impact Factor: N/A Citations: 34	
DOI: dx.doi.org/10.1016/j.aej.2017.08.015	
Characterization of the Inlet Port Flow under Steady-State Conditions Using PIV and POD	2017
<i>Mohammed El-Adawy Morgan R. Heikal A. Rashid A. Aziz Muhammad Israr Shahzad Munir</i>	
<i>Energies</i> , NULL	
Impact Factor: 2.676 Quartile: 2 Citations: 34	
DOI: 10.3390/en10121950	
Simultaneous velocity measurements and the coupling effect of the liquid and gas phases in slug flow using PIV–LIF technique	2016
<i>Shahzad Munir M. R Heikal G. de Sercey A. Rashid A. Aziz S. C. Dass Muhammad Israr</i>	
<i>Journal of Visualization</i> , Volume 19, Issue 1, Pages 103-114	
Impact Factor: 0.950 Quartile: 4 Citations: 29	
DOI: https://doi.org/10.1007/s12650-015-0302-1	
Identification of dominant structures and their flow dynamics in the turbulent two-phase flow using POD technique	2015
<i>Shahzad Munir M.R Heikal Abdul Rashid Abdul Aziz Guillaume de Sercey Muhammad Israr</i>	
<i>Journal of Mechanical Science and Technology</i> , Volume:29, Issue:11, Page:4701-4710	
Impact Factor: 0.761 Quartile: 3 Citations: 15	
DOI: 10.1007/s12206-015-1017-x	
Slug Dynamics in a Nearly Horizontal Pipe Using Non-Invasive Measurement Techniques	2015
<i>Shahzad Munir M.R Heikal A. Rashid A. Aziz S. C. Dass Muhammad Israr</i>	
<i>Modern Applied Science</i> , Volume 9, No. 9, Pages 50-57	
Impact Factor: N/A	
DOI: http://dx.doi.org/10.5539/mas.v9n9p50	
Dynamical analysis of turbulent liquid phase in two-phase pipe flow	2014
<i>Shahzad Munir Morgan R. Heikal A. Rashid A. Aziz Mohana S. Muthuvalu Azuraen Jaafar Muhammad Israr</i>	
<i>ScienceAsia</i> , Volume 40, Pages 63-68	
Impact Factor: 0.347 Quartile: 3 Citations: 3	

DOI: <http://dx.doi.org/10.2306/scienceasia1513-1874.2014.40S.063>

Speed of Longitudinal and Transverse Plane Elastic Waves in Rotating and Non-Rotating Anisotropic Mediums

2011

A. Khan S. Islam M. Khan Muhammad Israr

World Applied Sciences Journal, Volume 15 (12), Pages 1761-176

Impact Factor: N/A

DOI: <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=fae075d52081608af713d397fad87b88682568df>

Conference Proceedings

Dynamics of liquid slug using particle image velocimetry technique

2016

Muhammad Israr A. Rashid A. Aziz MR Heikal

4th International Conference on Fundamental and Applied Sciences (ICFAS2016), res.country(157,)

Citations: N/A

DOI: <https://doi.org/10.1063/1.4968130>

Structure analysis of turbulent liquid phase by POD and LSE techniques

2014

Shahzad Munir MR Heikal A. Rashid A. Aziz M. S. Muthuvalu Muhammad Israr

3rd International Conference on Fundamental and Applied Sciences (ICFAS 2014), res.country(157,)

Citations: N/A

DOI: <https://doi.org/10.1063/1.4898455>

Influence of a gas bubble on the dynamical parameters of the slug flow using particle image velocimetry

2014

Muhammad Israr MR Heikal Shahzad Munir S. C. Dass A. Rashid A. Aziz

3rd International Conference on Fundamental and Applied Sciences (ICFAS 2014), res.country(157,)

Citations: N/A

DOI: <https://doi.org/10.1063/1.4898543>

Temporal and spatial characterization of turbulent structures in liquid phase using POD technique

2014

Shahzad Munir MR Heikal A. Rashid A. Aziz M. S. Muthuvalu M I Siddiqui

International Conference on Mathematics, Engineering and Industrial Applications, ICoMEIA 2014, res.country(157,)

Citations: N/A

DOI: 10.1063/1.4915836