

Emad Ud Din

Professor

School of Mechanical & Manufacturing Engineering

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About

Dr. Emad Ud Din is working as Professor in the School of Mechanical & Manufacturing Engineering. Dr. Emad Ud Din has a PhD in Fluid Mechanics. Dr. Emad Ud Din has published 90 research articles & conference papers having a citation count of 1069, carried out 10 projects and filed 0 intellectual property.

Qualifications

PhD in Fluid Mechanics Korea Advanced Institute of Science & Technology , Korea	2009 - 2014
MS in Fluid Mechanics NUST, Islamabad , Pakistan	2007 - 2009
BS in Fluid Mechanics UET Taxila , Pakistan	2003 - 2007

Experience

Professor School of Mechanical & Manufacturing Engineering	2024- Present
Associate Professor School of Mechanical & Manufacturing Engineering	2021 - 2024
Assistant Professor School of Mechanical & Manufacturing Engineering	2014 - 2021
Assistant Professor School of Mechanical & Manufacturing Engineering	2014 - 2014

Awards

Best Researcher Award SMME best researcher award 2018	2018
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Professional Memberships

PEC

Research Projects

National Projects

Design and Development of a Concept Demonstrator Attack Drone	2023
Funding Agency: NESCOM	
Amount: PKR 500,000.00	
Status: Approved_inprocess	
Design and modelling of an electric ducted fan for small UAV	2023
Funding Agency: NESCOM	
Amount: PKR 500,000.00	
Status: Approved_inprocess	
Dragonfly Micro UAV	2020
Funding Agency: IGNITE	
Amount: PKR 38,000.00	
Status: Completed	
Design, Development and Manufacturing of Multipurpose VTOL with Robotic Arm (Phase 1)	2020
Funding Agency: NESCOM	
Amount: PKR 200,000.00	
Status: Completed	
Harbor Protection Hydrodynamic CFD	2017
Funding Agency: NESCOM	
Amount: PKR 150,000.00	
Status: Approved_inprocess	
Prediction of Steel Erosion under High Temperature and High Pressure	2017
Funding Agency: NESCOM	
Amount: PKR 100,000.00	
Status: Completed	
Vision Based Quality Control Solution for Football Shape Analysis	2010
Funding Agency: Anwar Khawaja Industries	
Amount: PKR 1,000,000.00	
Status: Completed	
Development of low cost micro analytical device for cell sorting	2020
Funding Agency: HEC	
Amount: PKR 10,538,991.00	
Status: Completed	
Investigation of Energy harvesting EEL of power generation	2016
Funding Agency: HEC	
Amount: PKR 500,000.00	
Status: Completed	
A Cold Side Thermal Management Study Of Solar Photovoltaic Cells	2019
Funding Agency: HEC	
Amount: PKR 10,830,000.00	
Status: Completed	

International Projects

Research Articles

Investigation of Compression, Impact and Post-impact Behavior of Carbon/Flax Bio-hybrid Laminates: Effects of Stacking Sequence and Fiber Hybridization	2025
Manzar Masud Aamir Mubashar Emad Ud Din Zaib Ali Dr. Adnan Tariq	
Fibers and Polymers , Volume: 26, Pages:4115-4132	
Impact Factor: 2.3 Quartile: 2	
DOI: https://doi.org/10.1007/s12221-025-01072-2	
Experimental Investigation of Surface Roughness Effects on Energy Harvesting from Piezoelectric Eel behind a Cylindrical Bluff Body	2025
Muhammad hammad Bucha Niaz Bahadur Khan Emad Ud Din Hafiz Hamza Riaz Adnan Munir Umar Farooq Ming Zhao Riaz Muhammad Mohammed Jamee	
Muhammad Tauseef Nasir Muhammad Nafees Mumtaz Qadri	

PLoS One , Volume 20(7), Article Number e0327916 Impact Factor: 2.600 Quartile: 2 DOI: 10.1371/journal.pone.0327916	
Experimental Study on Multi-Cell Counting Using an Inertial Microfluidic Device <i>Muhammad Zulfiqar Muhammad danish Manshad Emad Ud Din Aamir Mubashar Zaib Ali Muhammad Irfan Sibghat Ullah Jingmin Li</i> <i>Applied Sciences</i> , Volume 15(10), Article Number 5701 Impact Factor: 2.500 Quartile: 1 DOI: https://doi.org/10.3390/app15105701	2025
Condition Monitoring of Photovoltaic Panels Through Electrical Impedance Spectroscopy and Machine Learning Focusing on Temperature, Dust, and Microcracks <i>Saeed Iqbal Syed Maaz Hasan Yasar Ayaz Emad Ud Din Adeel Waqas Ahmad Muhammad Sajid</i> <i>IEEE Access</i> , Volume:13, Pages 53039-53052 Impact Factor: 3.400 Quartile: 2 DOI: https://doi.org/10.1109/access.2025.3550738	2025
Hydrodynamic and hydro acoustic analysis of marine propeller in off design flow conditions <i>Ammar Nazeer Niaz Bahadur Khan Emad Ud Din Mohammed Jameel Omar Al-Abbasi Qian Wu Adnan Munir Hanzla Shahid</i> <i>PLoS ONE</i> , Volume:20, Issue:3, Article Number e0320435 Impact Factor: 2.900 Quartile: 1 DOI: https://doi.org/10.1371/journal.pone.0320435	2025
Effectiveness of energy harvesting systems subjected to flow-induced vibrations in confined spaces <i>Hanzla Shahid Emad Ud Din A. Abdelkefi Usman Latif Muhammad mahad Shah M. Awais M. Zhao</i> <i>Renewable and Sustainable Energy Reviews</i> , Volume:210, Article Number:115183, Pages:14 Impact Factor: 16.3 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.rser.2024.115183	2025
Effect of process parameters and material composition of Al2O3-HAP composite using powder metallurgy <i>Muhammad Tayyab Bhutta Sadaqat Ali Malik Adeel Umer Aamir Mubashar Emad Ud Din Adnan Munir Abdul Basit</i> <i>Results in Materials</i> , Volume:25, Article Number 100669 Impact Factor: N/A DOI: https://doi.org/10.1016/j.rinma.2025.100669	2025
Estimating surface pressure on flexible structures subjected to flow-induced vibrations <i>Muhammad danial bin Anjum Emad Ud Din</i> <i>Physics of Fluids</i> , Volume: 36, Issue: 12, Pages:20 Impact Factor: 4.1 Quartile: 1 DOI: https://doi.org/10.1063/5.0241568	2024
Material characterization of Ti6Al4V alloy additively manufactured using selective laser melting technique <i>Syed Waqas Ali Shah Sadaqat Ali Himayat Ullah Muhammad Saad Aamir Mubashar Emad ud Din</i> <i>Journal of Materials Research and Technology</i> , Volume 33, Pages 1756-1763 Impact Factor: 6.200 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1016/j.jmrt.2024.09.164	2024
Fe-Ni binder modified NbC cermets: A cost-effective solution with superior mechanical properties <i>Abdul Basit Furqan Anwar Sadaqat Ali Malik Adeel Umer Tauheed Shahbaz Emad ud Din Aamir Mubashar</i> <i>Ceramics International</i> , Volume: 50, Issue: 22, Part C, Pages: 47768-47779 Impact Factor: 5.100 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1016/j.ceramint.2024.09.121	2024
Experimental Investigation of Particle Sorting in Y-Channels with Variable Bifurcation Angles for Microfluidic Applications <i>Khola Ikram Syed Maaz Hasan Ch Abdullah Muhammad Zulfiqar Emad Ud Din Zaib Ali Muhammad Sajid</i> <i>Journal of Applied Science and Engineering</i> , Volume 28, No 8, Pages 1679-1687 Impact Factor: 1.100 Quartile: 3 Citations: 1 DOI: https://doi.org/10.6180/jase.202508_28(8).0006	2024
Experimental investigation of the wake of tandem cylinders using pivoted flapping mechanism for piezoelectric flag <i>Muhammad Mahad Shah Rizwan Mahmood Usman Latif Emad Uddin Adnan Munir Ming Zhao Hafiz Hamza Riaz</i>	2024

Dynamic mode decomposition of a flexible flag behind a semi-circular cylinder

2024

Abdul Qadeer Emad Ud Din Hanzla Shahid Farukh Farukh Muhammad Awais

Physics of Fluids , Volume 36, Article Number 082109

Impact Factor: 4.100 | Quartile: 1 | Citations: 3

DOI: <https://doi.org/10.1063/5.0218630>

Experimental Investigation of Indirect Aqueous Inoculated Diesel Engine Performance in Urban-Area

2024

Driving for Mechanical Performance, Fuel Consumption and NOx Emissions

Waqas Khalid Sami Ur Rehman Shah Emad Ud Din Muhammad Usman Bhutta Majid Ali Xavier Tauzia Asad Asghar Janjua

Emission Control Science and Technology , Pages 1-10

Impact Factor: 1.300 | Quartile: 3

DOI: <https://doi.org/10.1007/s40825-024-00250-7>

Comparative analysis of flag based energy harvester undergoing extraneous induced excitation

2024

Usman Latif Earl H. Dowell Emad Ud Din M Y Younis H. M. Frisch

Energy , Volume 295, Article Number 130995

Impact Factor: 8.900 | Quartile: 1 | Citations: 3

DOI: <https://doi.org/10.1016/j.energy.2024.130995>

Sustainable urban energy solutions: Forecasting energy production for hybrid solar-wind systems

2024

Ali Javaid Muhammad Sajid Emad Uddin Adeel Waqas Yasar Ayaz

Energy Conversion and Management , Volume 302, Article Number 118120

Impact Factor: 10.4 | Quartile: 1 | Citations: 40

DOI: <https://doi.org/10.1016/j.enconman.2024.118120>

The mechanical behavior of modified epoxy adhesive using GNPs, MWCNTs, and RGO nanomaterials

2023

Hassan Ejaz Aamir Mubashar Ahsan Tanveer Emad Ud Din Zaib Ali Nabeel Arif

Journal of Adhesion Science and Technology , Pages 1-21

Impact Factor: 2.3 | Quartile: 3 | Citations: 6

DOI: doi.org/10.1080/01694243.2023.2268230

Structural optimization of orthopedic hip implant using parametric and non-parametric optimization techniques

2023

Muhammad Abdullah Aamir Mubashar Emad Uddin

Biomedical Physics and Engineering Express , Volume 9, Issue 5, Article Number 055026

Impact Factor: 1.300 | Quartile: 3 | Citations: 5

DOI: [10.1088/2057-1976/aced0d](https://doi.org/10.1088/2057-1976/aced0d)

Optimizing Design and Operational Parameters for Enhanced Mixing and Hydrodynamics in Bubbling Fluidized Bed Gasifiers: An Experimental and CFD-based Approach

2023

Naveed Raza Rifat Mehdi Muhammad Ahsan Muhammad Taqi Mehran Salman Raza naqvi Emad UdDin

Applied Sciences , Volume: 13, Issue: 16, Article Number:9317

Impact Factor: 2.7 | Quartile: 2

DOI: <https://doi.org/10.3390/app>

Computational analysis of inverted flag-based energy harvester in the wake of cylindrical bluff body

2023

Usman Latif Hafiz M Umar Emad Uddin Mariam Akber

Ocean Engineering , Volume 281, Article Number 114920

Impact Factor: 5.0 | Quartile: 1 | Citations: 4

DOI: <https://doi.org/10.1016/j.oceaneng.2023.114920>

An experimental and simulation study of RGO effects on mechanical behaviour of structural adhesive and lap shear joints strength

2023

Hassan Ejaz Aamir Mubashar Emad Ud Din Zaib Ali Nabeel Arif Saad Waqar

International Journal of Adhesion and Adhesives , Volume 126, Article Number 103480

Impact Factor: 3.4 | Quartile: 2 | Citations: 9

DOI: <https://doi.org/10.1016/j.ijadhadh.2023.103480>

VIV and forced convection response of a freely oscillating cylinder to a single impulse perturbation of varying intensity

2023

Asad Ejaz Shehryar Manzoor M Ebrahim Emad Uddin N.A. Sheikh

Ocean Engineering , Volume 280, Article Number 114515

Impact Factor: 4.372 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.oceaneng.2023.114515	
Parametric aerodynamic and aeroelastic study of a deformable flag-based energy harvester for powering low energy devices <i>Usman Latif Earl H Dowell Emad Uddin M Yamin Younis</i> <i>Energy Conversion and Management</i> , Volume 280, Article Number 116846 Impact Factor: 10.4 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1016/j.enconman.2023.116846	2023
Simplistic Comparative Analytical Methodology for Accuracy Determination of In-Cylinder Convective Heat Transfer Coefficient Models of Diesel Engine Operating with Water Injection using Experimental Pressure Signals <i>Asad Asghar Janjua Sami Ur Rahman Shah Emad Ud Din Jawad Aslam Muhammad Zeeshan Ali Khan Xavier Tauzia</i> <i>Arabian Journal for Science and Engineering</i> , Pages 1-14 Impact Factor: 2.807 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1007/s13369-023-07627-w	2023
Synergistic analysis of wake effect of two cylinders on energy harvesting characteristics of piezoelectric flag <i>Usman Latif M Yamin Younis Saad Idrees Emad Uddin Abdelkefi Adnan Munir Ming Zhao</i> <i>Renewable and Sustainable Energy Reviews</i> , Volume 173, Article Number 113114 Impact Factor: 16.799 Quartile: 1 Citations: 19 DOI: https://doi.org/10.1016/j.rser.2022.113114	2023
Impact of solid and hollow bluff bodies on the performance and dynamics of flag-based energy harvester <i>Usman Latif M Yamin Younis Emad Uddin Zaib Ali Aamir Mubashar A. Abdelkefi</i> <i>Sustainable Energy Technologies and Assessments</i> , Volume 55, Article Number 102882 Impact Factor: 7.632 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1016/j.seta.2022.102882	2023
Experimental investigation of effect of welding parameters on surface roughness, micro-hardness and tensile strength of AISI 316L stainless steel welded joints using 308L filler material by TIG welding <i>Khubaib Zafar Ghumman Sadaqat Ali Emad Ud Din Aamir Mubashar Niaz Bahadur Khan Syed Waqar Ahmed</i> <i>Journal of Materials Research and Technology</i> , Volume 21, Pages 220-236 Impact Factor: 6.267 Quartile: 1 Citations: 35 DOI: https://doi.org/10.1016/j.jmrt.2022.09.016	2022
Barriers and drivers for adoption of energy efficient and environment friendly brick kiln technologies in Punjab, Pakistan <i>Akhtar Abbas Muhammad Bilal Sajid Nadia Shahzad Emad Uddin Mariam Mahmood Usman Salahuddin</i> <i>Energy Reports</i> , Volume 8, Pages 15563-15573 Impact Factor: 5.2 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1016/j.egyr.2022.11.128	2022
Forecasting Hydrogen Production from Wind Energy in a Suburban Environment Using Machine Learning <i>Ali Javaid Umer Javaid Muhammad Sajid Muhammad Rashid Emad Uddin Yasar Ayaz Adeel Waqas</i> <i>Energies</i> , Volume 15, Issue 23, Article Number 8901 Impact Factor: 3.252 Quartile: 3 Citations: 40 DOI: https://doi.org/10.3390/en15238901	2022
A comparative study of GNPs and MWCNTs additives on dispersion behavior and strength characteristics of the adhesively bonded joints <i>Hassan Ejaz Aamir Mubashar Emad Ud Din Zaib Ali</i> <i>Journal of Dispersion Science and Technology</i> , Pages 1-12 Impact Factor: 2.057 Quartile: 4 Citations: 4 DOI: doi.org/10.1080/01932691.2022.2143369	2022
Simulation study on flow behavior around a wall-mounted finite height square cylinder with corner chamfer <i>Ahmed Hammad Md Yamin Younis Naveed Akram Emad Uddin Adeel Javed Fausto pedro Garcia Márquez</i> <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , Volume 229, Article Number 105157 Impact Factor: 4.437 Quartile: 1 Citations: 14	2022

DOI: https://doi.org/10.1016/j.jweia.2022.105157	
Deep learning and statistical methods for short- and long-term solar irradiance forecasting for Islamabad	2022
<i>Syed Altan Haider Muhammad Sajid Hassan Sajid Emad Ud Din Yasar Ayaz</i> <i>Renewable Energy</i> , Volume 198, Pages 51-60	
Impact Factor: 8.634 Quartile: 1 Citations: 85	
DOI: https://doi.org/10.1016/j.renene.2022.07.136	
Effect of functionalised and non-functionalised GNPs addition on strength properties of high viscous epoxy adhesive and lap shear joints	2022
<i>Hassan Ejaz Aamir Mubashar Emad Ud Din Zaib Ali Nabeel Arif</i> <i>Polymer Testing</i> , Volume 113, Article Number 107680	
Impact Factor: 4.931 Quartile: 1 Citations: 33	
DOI: https://doi.org/10.1016/j.polymertesting.2022.107680	
Influence of MWCNTs on strength properties of high viscous epoxy adhesive and fracture behavior of adhesively bonded joints	2022
<i>Hassan Ejaz Aamir Mubashar Emad Ud Din Zaib Ali Nabeel Arif</i> <i>Theoretical and Applied Fracture Mechanics</i> , Volume 120, Article Number 103412	
Impact Factor: 4.017 Quartile: 1 Citations: 21	
DOI: https://doi.org/10.1016/j.tafmec.2022.103412	
Investigating relative density effects on quasi-static response of high-density Rigid Polyurethane Foam (RPUF)	2022
<i>Naveed Iqbal Aamir Mubashar Sohail Ahmed Nabeel Arif Emad Uddin</i> <i>Materials Today Communications</i> , Volume 31, Article Number 103320	
Impact Factor: 3.662 Quartile: 3 Citations: 14	
DOI: https://doi.org/10.1016/j.mtcomm.2022.103320	
Performance enhancement of vertical axis hydrokinetic turbine using novel blade profile	2022
<i>Zain Ullah Khan Zaib Ali Emad Uddin</i> <i>Renewable Energy</i> , Volume 188, Pages 801-818	
Impact Factor: 8.001 Quartile: 1 Citations: 33	
DOI: https://doi.org/10.1016/j.renene.2022.02.050	
Thermal performance prediction of street trees inside isolated open spaces – evaluations from real scale retrofitting project	2022
<i>Muhammad Zeeshan Zaib Ali Emad Uddin</i> <i>Journal of Building Performance Simulation</i> , Pages 1-17	
Impact Factor: 2.957 Quartile: 2 Citations: 11	
DOI: https://doi.org/10.1080/19401493.2022.2038270	
Experimental hydrodynamic investigations on the effectiveness of inverted flag-based piezoelectric energy harvester in the wake of bluff body	2022
<i>M Umair Usman Latif Emad Uddin A. Abdelkefi</i> <i>Ocean Engineering</i> , Volume 245, Article Number 110454	
Impact Factor: 4.372 Quartile: 1 Citations: 21	
DOI: https://doi.org/10.1016/j.oceaneng.2021.110454	
Investigation of heat transfer in dimple-protrusion micro-channel heat sinks using copper oxide nano-additives	2021
<i>Muhammad Zia Ullah Khan Bilal Akbar Ramisha Sajjad Umair Ahmed Rajput Sanaullah Mastoi Emad Uddin Azhar Hussain Md Yamin Younis Fausto Pedro García Márquez Naveed Akram</i> <i>Case Studies in Thermal Engineering</i> , Volume 28, Article Number 101374	
Impact Factor: 6.268 Quartile: 1 Citations: 26	
DOI: https://doi.org/10.1016/j.csite.2021.101374	
Investigation of heat transfer in wavy and dual wavy micro-channel heat sink using alumina nanoparticles	2021
<i>Zia Ullah Khan M Yamin Younis Naveed Akram Bilal Akbar Umair Ahmed Rajput Rumeel Ahmad Bhutta Emad Uddin Muhammad Ahsan Jamil Fausto Pedro García Márquez Fahad Bin Zahid</i> <i>Case Studies in Thermal Engineering</i> , Volume 28, Article Number 101515	
Impact Factor: 4.724 Quartile: 1	
DOI: https://doi.org/10.1016/j.csite.2021.101515	

Robust fuzzy sliding mode controller for a skid-steered vehicle subjected to friction variations <i>Jawad Aslam Yasir Mehmood Nasim Ullah Ahmed A. Alsheikhy Emad uddin Jamshed Iqbal</i> <i>PLoS One</i> , Volume 16(11), Article Number e0258909 Impact Factor: 3.240 Quartile: 2 Citations: 10 DOI: 10.1371/journal.pone.0258909	2021
Development of a truncated ellipsoidal reflector-based metal halide lamp solar simulator for characterization of photovoltaic cells <i>Muhammad Abdullah Haroon Shah Hamza Butt Muaaz Farooq Muhammad Nouman Ihsan Muhammad Sajid Emad Uddin</i> <i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i> , Volume 43, No. 20, Pages 2554–2568 Impact Factor: 3.447 Quartile: 2 Citations: 5 DOI: 10.1080/15567036.2020.1842557	2021
Numerical Analysis of Heat Transfer and Pressure Drop in Helically Micro-Finned Tubes <i>Muhammad Ammar Ali Muhammad Sajid Emad Uddin Niaz Bahadur Khan Zaib Ali</i> <i>Processes</i> , Volume 9, Article Number 754 Impact Factor: 2.753 Quartile: 2 Citations: 7 DOI: https://doi.org/10.3390/pr9050754	2021
An Investigation of the Experimental and Numerical Ballistic Response of 12.7mm AP tracer Projectile Against Al2O3/Al 5083-H116 Bi-layer Armour <i>Haseeb Ahmed Aamir Mubashar Emad Uddin Syed Waheed Ul Haq</i> <i>International Journal of Multiphysics</i> , Volume 15(2), Pages 119-138 Impact Factor: N/A Citations: 6 DOI: 10.21152/1750-9548.15.2.119	2021
Experimental electro-hydrodynamic investigation of flag-based energy harvesting in the wake of inverted C-shape cylinder <i>Usman Latif Emad Uddin Muhammad Yamin Younis Jawad Aslam Zaib Ali Muhammad Sajid A. Abdelkafi</i> <i>Energy</i> , Volume 215, Part B, Article Number 119195 Impact Factor: 8.857 Quartile: 1 Citations: 46 DOI: https://doi.org/10.1016/j.energy.2020.119195	2021
Hydrodynamic energy harvesting analysis of two piezoelectric tandem flags under influence of upstream body's wakes <i>Ahmad Mujtaba Usman Latif Emad Uddin Muhammad Yamin Younis Muhammad Sajid Zaib Ali A. Abdelkafi</i> <i>Applied Energy</i> , Volume 282, Part A, Article Number 116173 Impact Factor: 11.446 Quartile: 1 Citations: 41 DOI: https://doi.org/10.1016/j.apenergy.2020.116173	2021
Numerical investigation of hydrodynamic and hydro-acoustic performance of underwater propeller operating in off-design flow conditions <i>Muhammad Rehan Naseer Emad Uddin Aamir Mubashar Muhammad Sajid Zaib Ali Khalid Akhtar</i> <i>Journal of Marine Engineering and Technology</i> , Pages 1-10 Impact Factor: 3.192 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1080/20464177.2020.1865250	2020
Wind Speed and Power Forecasting of a Utility-Scale Wind Farm with Inter-Farm Wake Interference and Seasonal Variation <i>Raja M. Asim Feroz Adeel Javed Abdul Haseeb Syed Syed Ali Abbas Kazmi Emad Uddin</i> <i>Sustainable Energy Technologies and Assessments</i> , Volume 42, Article Number 100882 Impact Factor: 2.713 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1016/j.seta.2020.100882	2020
Analysis of the effect of passive measures on the energy consumption and zero-energy prospects of residential buildings in Pakistan <i>Muhammad Sajid Zaib Ali Emad Uddin Muhammad Wasim Anwar Abdullah Javed</i> <i>Building Simulation</i> , Pages 1-18 Impact Factor: 3.751 Quartile: 1 Citations: 22 DOI: https://doi.org/10.1007/s12273-020-0729-8	2020
Development of a Linear Acoustic Array for Aero-Acoustic Quantification of Camber-Bladed Vertical Axis Wind Turbine <i>Abdul Hadi Butt Bilal Akbar Jawad Aslam Naveed Akram Manzoore Elahi M Soudagar Fausto Pedro García Márquez Muhammad Yamin Younis Emad Uddin</i> <i>Sensors</i> , Volume 20(20), Article Number 5954	2020

- Impact Factor:** 3.576 | **Quartile:** 1 | **Citations:** 13
DOI: <https://doi.org/10.3390/s20205954>
- Experimental investigation of impact of long rod eroding projectiles against rolled homogeneous armour** 2020
Sana Zaki Emad Uddin Aamir Mubashar
Proceedings of The Institution of Mechanical Engineers Part L-Journal of Materials-Design and Applications, Volume 234, Issue 10, Pages 1335-1342
Impact Factor: 2.311 | **Quartile:** 2 | **Citations:** 4
DOI: <https://doi.org/10.1177/1464420720940766>
- Investigation of Heat Transfer and Pressure Drop in Microchannel Heat Sink Using Al₂O₃ and ZrO₂ Nanofluids** 2020
Muhammad Zia Ullah Khan Emad Uddin Bilal Akbar Naveed Akram Ali Ammar Naqvi Muhammad Sajid Zaib Ali Muhammad Yamin Younis Fausto Pedro García Márquez
Nanomaterials, Volume 10(9), Article Number 1796
Impact Factor: 5.076 | **Quartile:** 1 | **Citations:** 22
DOI: <https://doi.org/10.3390/nano10091796>
- Experimental investigation of energy harvesting eel in the wake of bluff body under ocean waves** 2020
Usman Latif Ehtisham Ali Emad Uddin Zaib Ali Muhammad Sajid Samiur Rahman Shah Muhammad Yamin Younis
Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment, Pages 1-12
Impact Factor: 1.389 | **Quartile:** 3 | **Citations:** 14
DOI: [10.1177/1475090220949334](https://doi.org/10.1177/1475090220949334)
- A Novel 2-D Current Signal-Based Residual Learning With Optimized Softmax to Identify Faults in Ball Screw Actuators** 2020
Naveed Riaz Syed Irteza Ali Shah Faisal Rehman Syed Omer Gilani Emad Udin
IEEE Access, Volume 8, Pages 115299-115313
Impact Factor: 3.367 | **Quartile:** 1 | **Citations:** 29
DOI: [10.1109/ACCESS.2020.3004489](https://doi.org/10.1109/ACCESS.2020.3004489)
- Investigation of Zero Moment Point in a Partially Filled Liquid Vessel Subjected to Roll Motion** 2020
Muhammad Usman Muhammad Sajid Emad Uddin Yasar Ayaz
Applied Sciences, Volume 10, Issue 11, Article Number 3992
Impact Factor: 2.679 | **Quartile:** 2 | **Citations:** 4
DOI: <https://doi.org/10.3390/app10113992>
- Computational evaluation of an optimum leading-edge slat deflection angle for dynamic stall control in a novel urban-scale vertical axis wind turbine for low wind speed operation** 2020
Tariq Ullah Adeel Javed Ali Abdullah Majid Ali Emad Uddin
Sustainable Energy Technologies and Assessments, Volume 40, Article Number 100748
Impact Factor: 2.713 | **Quartile:** 1 | **Citations:** 52
DOI: <https://doi.org/10.1016/j.seta.2020.100748>
- Experimental investigation of energy harvesting behind a bluff body** 2020
Usman Latif Emad Uddin Chaudhary Abdullah Zaib Ali Muhammad Sajid Khalid Akhtar Samiur Rehman Shah
Journal of Renewable and Sustainable Energy, Volume 12, Issue 3, Article Number:033301
Impact Factor: 2.219 | **Quartile:** 4 | **Citations:** 17
DOI: <https://doi.org/10.1063/1.5144347>
- Effect of vortices on power output of vertical axis wind turbine (VAWT)** 2020
Ammar Naseem Emad Uddin Zaib Ali Jawad Aslam Sami Ur Rahman Shah Muhammad Sajid Syed Ali Abbas Zaidi Adeel Javed Muhammad Yamin Younis
Sustainable Energy Technologies and Assessments, Volume 37, Article Number 100586
Impact Factor: 5.353 | **Quartile:** 2 | **Citations:** 32
DOI: <https://doi.org/10.1016/j.seta.2019.100586>
- Numerical investigation of surface acoustic wave (SAW) interacting with a droplet for point-of-care devices** 2019
Imran Shah Emad Uddin Aamir Mubashar Muhammad Sajid Muhammad Yamin Younis Hudair Samad Kyung Hyun Choi
International Journal of Acoustics and Vibrations, Volume: 24, Issue: 4, Pages 632-637
Impact Factor: 0.729 | **Quartile:** 4 | **Citations:** 4
DOI: [DOI: 10.20855/ijav.2019.24.41312](https://doi.org/10.20855/ijav.2019.24.41312)
- Ballistic response of 12.7 mm armour piercing projectile against perforated armour developed from structural steel** 2019
Emad Uddin Saqib Anwar Syed Waheed Ul Haq Nabeel Arif MAK Chowdhury Aamir Mubashar

Impact Factor: 2.014 | **Quartile:** 3 | **Citations:** 13

DOI: 10.1177/1464420718808317

SPECTRUM - A MATLAB Toolbox for Proteoform Identification from Top-Down Proteomics Data

2019

Abdul Rehman Basharat Kanzal Iman Muhammad Farhan Khalid ZohraAnwar Rashid Hussain Humnah Gohar Kabir MariaTahreem Anam Shahid Maheen Humayun Hira Azmat Hayat Muhammad Mustafa MuhammadAli Shoaib Zakir Ullah Shamshad Zarina SameerAhmed Emad Uddin Sadia Hamera Fayyaz Ahmad Safee Ullah Chaudhary

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