Muhammad Rizwan UI Haq

Assistant Professor

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2023

About

Dr. Muhammad Rizwan UI Haq is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Muhammad Rizwan UI Haq has a PhD in Additive Manufacturing. Dr. Muhammad Rizwan UI Haq has published 12 research articles & conference papers having a citation count of 65, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Additive Manufacturing National Taiwan University of Science and Technology , Taiwan	2020 - 2022
MS in Advanced Manufacturing Technology University of Manchester , United Kingdom	2007 - 2008
BE in Mechanical Engineering UET Taxila , Pakistan	1999 - 2003
Experience	
Assistant Professor School of Mechanical & Manufacturing Engineering	2022- Present
Lecturer King Fahd University of Petroleum and Minerals, KSA , Saudi Arabia.	2011 - 2020

Research Projects

National Projects

Design and Development of Additive Manufacturing System (Phase - I)

Funding Agency: NUST
Amount: PKR 15,000,000.00

Status: Completed

International Projects

Research Articles

Design and Investigation of Mechanical Properties of Additively Manufactured Novel Coil-Shaped Wave Springs	2025
Gul Jamil Shah Muhammad Rizwan Ul Haq Jeng-Ywan Jeng Applied Mechanics	
Impact Factor: 1.500 Quartile: 3	
DOI: https://doi.org/10.3390/applmech6030061	
Design for Additive Manufacturing Driven Multi-Layered Hybrid Mechanical Metamaterials for Improved Mechanical Performance	2025
Mehmood Khan Muhammad Rizwan Ul Haq Muhammad Salman Khan Shahid Ikram Ullah Butt Aamer Nazir Asad Ullah Jan	
Advanced Engineering Materials, Article Number:2402737, Pages:15	
Impact Factor: 3.4 Quartile: 2 Citations: 2 DOI: 10.1002/adem.202402737	
Experimental and Numerical Analysis of Titanium 3D Body-Centered Cubic Lattice Structure Additively	2025
Manufactured Using Selective Laser Melting	
Asad Ullah Jan Adnan Munir Muhammad Rizwan Ul Haq Muhammad Salman Khan Ahsan Kaleem Muhammad Naveed Ahsan Aqeel Ahsen Khurram Mehmood Khan	
3D Printing and Additive Manufacturing, Pages 1-12	
Impact Factor: 2.300 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1089/3dp.2024.0122	
Analysis of variable frictional contacts wave springs fabricated using MultiJet fusion additive manufacturing	2023
Gul Jameel Shah Muhammad Rizwan Ul Haq Shang Chi Lin Jeng-Ywan Jeng	
International Journal of Advanced Manufacturing Technology, Pages 1-15	
Impact Factor: 3.563 Quartile: 2 DOI: 10.1007/s00170-023-11099-5	
WSdesign: a mathematical design method for generating uniform and functionally gradient/hybrid	2022
wave springs, fabricated using additive manufacturing processes	
Muhammad Rizwan UI Haq Aamer Nazir Hamza Azam Jeng-Ywan Jeng	
International Journal of Advanced Manufacturing Technology, Volume:121, Issue:11-12, Page:7763-7778	
Impact Factor: 3.563 Quartile: 2 Citations: 7 DOI: https://link.springer.com/article/10.1007/s00170-022-09818-5	
Design and performance evaluation of multifunctional midsole using functionally gradient wave	2022
springs produced using multijet fusion additive manufacturing process Muhammad Rizwan UI Haq Aamer Nazir Shang Chi Lin Jeng-Ywan Jeng	
Materials Today Communications, Volume 31, Article Number 103505	
Impact Factor: 3.662 Quartile: 3 Citations: 15	
DOI: doi.org/10.1016/j.mtcomm.2022.103505	
Investigating the effect of design parameters on Mechanical performance of contact wave spring designed for additive manufacturing.	2022
Muhammad Rizwan UI Haq Aamer Nazir Shang Chi Lin Jeng-Ywan Jeng	
3D Printing and Additive Manufacturing, Pages 1-21	
Impact Factor: 5.355 Quartile: 2 Citations: 3 DOI: http://doi.org/10.1089/3dp.2021.0313	
Parametric investigation of functionally gradient wave springs designed for additive manufacturing	2022
Muhammad Rizwan Ul Haq Aamer Nazir Shang Chi Lin Jeng-Ywan Jeng	
International Journal of Advanced Manufacturing Technology, Volume 119, Issue 3-4, Pages 1673-1691	
Impact Factor: 3.563 Quartile: 2 Citations: 11 DOI: doi.org/10.1007/s00170-021-08325-3	
Design for additive manufacturing of variable dimension wave springs analyzed using experimental	2021
and finite element methods Muhammad Rizwan UI Haq Aamir Nazir Jeng-Ywan Jeng	
Additive Manufacturing, Volume 44, Article Number 102032	
Impact Factor: 11.632 Quartile: 1 Citations: 22	
DOI: https://doi.org/10.1016/j.addma.2021.102032	

Book Chapters

Book chapters	
Design for additive manufacturing of cellular structures Aamer Nazir Saad Waqar Muhammad Rizwan ul Haq Mohammad Qamar Tanveer	2024
In: Book on Additive Manufacturing Materials and Technology, Chapter 14, Pages 359-388	
Citations: 1	
DOI: https://doi.org/10.1016/C2022-0-00183-5	
Editorial Activities	
Frontiers in Surgery Poviewed Papers for Journals	2025
Reviewed Papers for Journals Impact Factor: 1.6	
Additive manufacturing	2025
Reviewed Papers for Journals Impact Factor: 10.3	
Additive Manufacturing	2024
Reviewed Papers for Journals	
Impact Factor: 10.3	0004
Additive Manufacturing Reviewed Papers for Journals	2024
Impact Factor: 10.3	
Additive Manufacturing	2024
Reviewed Papers for Journals	
Impact Factor: 10.3	
Energy absorption enhancement of additively	2024
Reviewed Papers for Journals Impact Factor: 10.3	
Additive Manufacturing	2024
Reviewed Papers for Journals	
Impact Factor: 11.6	
Rapid Prototyping Journal Reviewed Papers for Journals	2024
Impact Factor: 3.3	
Additive Manufacturing	2024
Reviewed Papers for Journals	
Impact Factor: 11.6	
Proceedings of the Institution of Mechanical Engineers, Part C Reviewed Papers for Journals	2024
Impact Factor: 2.5	
Additive Manufacturing	2024
Reviewed Papers for Journals	
Impact Factor: 11.6	
Additive Manufacturing	2024
Reviewed Papers for Journals Impact Factor: 11.6	
Additive Manufacturing	2024
Reviewed Papers for Journals	
Impact Factor: 11.6	
Frontiers in bioengineering and biotechnology Edited Journal Issue / Proceeding / Book	2024
Impact Factor: 6.06	
Additive Manufacturing	2023
Reviewed Papers for Journals	
Impact Factor: 11.6	

Additive Manufacturing Reviewed Papers for Journals Impact Factor: 11.6	2023
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Additive Manufacturing Reviewed Papers for Journals Impact Factor: 11.6	2023
Additive Manufacturing Reviewed Papers for Journals Impact Factor: 11.6	2023
Additive Manufacturing Reviewed Papers for Journals Impact Factor: 11.0	2023
Additive Manufacturing Reviewed Papers for Journals Impact Factor: 11	2023
3D Printing and Additive Manufacturing Reviewed Papers for Journals Impact Factor: 5.4	2023
3D Printing and Additive Manufacturing Reviewed Papers for Journals Impact Factor: 5.4	2023
3D Printing and Additive Manufacturing Reviewed Papers for Journals Impact Factor: 5.4	2023