

Muhammad Rizwan UI Haq

Assistant Professor

School of Mechanical & Manufacturing Engineering

Email: muhammad.rizwan@smme.nust.edu.pk

Contact:

LinkedIn: <https://www.linkedin.com/in/muhammad-rizwan-ul-haq-ph-d-9b177284/>



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	2023

International Projects

Research Articles

- Design and Investigation of Mechanical Properties of Additively Manufactured Novel Coil-Shaped Wave Springs** 2025
Gul Jamil Shah Muhammad Rizwan UI 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 UI 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 Manufactured Using Selective Laser Melting** 2025
Asad Ullah Jan Adnan Munir Muhammad Rizwan UI 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 UI 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 wave springs, fabricated using additive manufacturing processes** 2022
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 springs produced using multijet fusion additive manufacturing process** 2022
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 UI 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 and finite element methods** 2021
Muhammad Rizwan UI Haq Aamer 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

- Design for additive manufacturing of cellular structures** 2024
Aamer Nazir Saad Waqar Muhammad Rizwan ul Haq Mohammad Qamar Tanveer
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** 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
- Additive Manufacturing** 2024
Reviewed Papers for Journals
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** 2024
Reviewed Papers for Journals
Impact Factor: 3.3
- Additive Manufacturing** 2024
Reviewed Papers for Journals
Impact Factor: 11.6
- Proceedings of the Institution of Mechanical Engineers, Part C** 2024
Reviewed Papers for Journals
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** 2024
Edited Journal Issue / Proceeding / Book
Impact Factor: 6.06
- Additive Manufacturing** 2023
Reviewed Papers for Journals
Impact Factor: 11.6

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