

Muhammad Salman Khan

Assistant Professor

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About

Dr. Muhammad Salman Khan is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Muhammad Salman Khan has a PhD in Computational Solid Mechanics. Dr. Muhammad Salman Khan has published 19 research articles & conference papers having a citation count of 101, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Computational Solid Mechanics Universiti Teknologi Malaysia , Malaysia	2015 - 2021
MS in (Design & Manufacturing Engg) NUST, Islamabad , Pakistan	2012 - 2015
BS in (Manufacturing Engg) UET Peshawar , Pakistan	2008 - 2012

Experience

Assistant Professor School of Mechanical & Manufacturing Engineering	2022- Present
Assistant Professor School of Mechanical & Manufacturing Engineering	2021 - 2022
Lecturer School of Mechanical & Manufacturing Engineering	2021 - 2021

Research Articles

Enhanced high voltage insulation performance of HTV silicon rubber nanocomposites filled with nano-TiO₂ for outdoor applications <i>Aqeel ur Rehman Muhammad Salman Khan ABRAIZ KHATTAK Nafees Ahmad Kashif Imran Yasin Khan Khalid Hamad Alkhalid</i> <i>Scientific Reports</i> , Volume:15, Article Number:23735, Pages:14 Impact Factor: 3.9 Quartile: 1 DOI: https://doi.org/10.1038/s41598-025-02730-4	2025
Sustainability analysis of tool wear, energy efficiency, surface quality, and energy during dry, MQL, and wet turning of Inconel 718 <i>Muhammad Adnan Khan Riaz Ahmad Syed Hussain Imran Jaffery Shahid Ikram Ullah Butt Muhammad Salman Khan Danyal Zahid</i> <i>International Journal of Sustainable Energy</i> , Volume: 44, Issue:1, Article: 2515447, Pages:33 Impact Factor: 2.7 Quartile: 4 DOI: https://doi.org/10.1080/14786451.2025.2515447	2025
Design for Additive Manufacturing Driven Multi-Layered Hybrid Mechanical Metamaterials for Improved Mechanical Performance <i>Mehmood Khan Muhammad Rizwan Ul Haq Muhammad Salman Khan Shahid Ikram Ullah Butt Aamer Nazir Asad Ullah Jan</i> <i>Advanced Engineering Materials</i> , Article Number:2402737, Pages:15 Impact Factor: 3.4 Quartile: 2 Citations: 2 DOI: 10.1002/adem.202402737	2025
Fabrication and Performance Analysis of Novel HTV Silicon Rubber Nanocomposites for High Voltage Insulation in Outdoor Environment <i>Aqeel ur Rehman Muhammad Salman Khan ABRAIZ KHATTAK Yasin Khan Khalid Hamad Alkhalid</i> <i>IEEE Access</i> , Volume:13, Page:19049-19063	2025

Impact Factor: 3.400 Quartile: 2 Citations: 1 DOI: 10.1109/ACCESS.2025.3533654	
Experimental and Numerical Analysis of Titanium 3D Body-Centered Cubic Lattice Structure Additively Manufactured Using Selective Laser Melting <i>Asad Ullah Jan Adnan Munir Muhammad Rizwan Ul Haq Muhammad Salman Khan Ahsan Kaleem Muhammad Naveed Ahsan Aqeel Ahsen Khurram Mahmood Khan</i> <i>3D Printing and Additive Manufacturing</i> , Pages 1-12 Impact Factor: 2.300 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1089/3dp.2024.0122	2025
Role of stacking sequence, metal sheets, and nano particle on strength and toughness of FMLs <i>Syed Hameed Hussain Aqeel Ahsan Khurram Adnan Munir Muhammad Salman Khan Aamir Mubashar</i> <i>Journal of Reinforced Plastics and Composites</i> , Pages 1-11 Impact Factor: 3.100 Quartile: 2 DOI: https://doi.org/10.1177/07316844241250182	2024
Analyzing effects of damping materials on automotive bumper beam assembly under different velocity conditions <i>Dil Jan Shahid Ikramullah Butt Muhammad Salman Khan Nasir Mahmood Ahmad Ghullam Hussain</i> <i>Journal of Thermoplastic Composite Materials</i> , Pages 1-19 Impact Factor: 3.3 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1177/08927057241240720	2024
Enhancing Cutting Efficiency and Minimizing Forces for Nomex Honeycomb Core Using Grey Relational Analysis and Desirability Function Analysis <i>Hassan Habib Muhammad Salman Khan Adnan Munir Danyal Zahid Olivia McDermott</i> <i>Small Methods</i> , Article Number: 2300958, Pages: 10 Impact Factor: 12.4 Quartile: 1 Citations: 2 DOI: 10.1002/smt.202300958	2023
Techno-economic feasibility analyses of grid- connected solar photovoltaic power plants for small scale industries of Punjab, Pakistan <i>Monib Ahmad Abraiz Khattak Ahmad Aziz Alahmadi Muhammad Salman Khan Nasim Ullah Abdul Kashif Janjua</i> <i>Frontiers in Energy Research</i> , Volume 10, Article Number 1028310 Impact Factor: 3.858 Quartile: 3 Citations: 9 DOI: https://doi.org/10.3389/fenrg.2022.1028310	2022
Effect of Surfactants on the Tribological Behavior of Organic Carbon Nanotubes Particles Additive under Boundary Lubrication Conditions <i>Anthony Chukwunonso Opia Mohd Kameil Abdul Hamid Samion Syahrullail Charles C. Johnson Stanley Chinedu Mamah Audu Ibrahim Ali Mazali Izhari Izmi</i> <i>Che Daud Zul Hilmi Muhammad Salman Khan Abu Bakar Abd Rahim</i> <i>Tribology Online</i> , Volume 17 (1), Pages 19-31 Impact Factor: N/A Citations: 7 DOI: https://doi.org/10.2474/trol.17.19	2022
Representative Cell Analysis for Damage-Based Failure Model of Polymer Hexagonal Honeycomb Structure under the Out-of-Plane Loadings <i>Muhammad Salman Khan Ainullotfi Abdul-Latif Seyed Saeid Rahimian Koloor Michal Petru Mohd Nasir Tamin</i> <i>Polymers</i> , Volume 13, Issue 1, Article Number 52 Impact Factor: 4.329 Quartile: 1 Citations: 33 DOI: https://doi.org/10.3390/polym13010052	2020
Effects of cell aspect ratio and relative density on deformation response and failure of honeycomb core structure <i>Muhammad Salman Khan Seyed Saeid Rahimian Koloor Mohd Nasir Tamin</i> <i>Materials Research Express</i> , Volume 7, Issue 1, Article Number 015332 Impact Factor: 1.620 Quartile: 4 Citations: 7 DOI: https://doi.org/10.1088/2053-1591/ab6926	2020
A Review of Failure Modes of Nuclear Fuel Cladding <i>M. A. KHATTAK1, ABDOULHDI A. BORHANA OMRAN S. KAZI Muhammad Salman Khan HAFIZ M. ALI SYEDA L. TARIQ MUHAMMAD A. AKRAM</i> <i>Journal of Engineering Science and Technology</i> , Volume: 14 Issue: 3 Pages: 1520-1541 Impact Factor: 0 DOI:	2019

https://www.researchgate.net/profile/Syeda_Tariq2/publication/334084882_A_REVIEW_OF_FAILURE_MODES_OF_NUCLEAR_FUEL_CLADDING_A_Review_of_Failure_Modes_of_Nuclear_Fuel_Cladding/links/5d15fbbf458515c11cfe3bbb/A-REVIEW-OF-FAILURE-MODES-OF-NUCLEAR-FUEL-CLADDING-A-Review-of-Failure-Modes-of-Nuclear-Fuel-Cladding.pdf

Application of Sayong Ball Clay Membrane Filtration for Ni (II) Removal from Industrial Wastewater 2018
Muhammad Salman Khan S.F. Mohd Noor N. Ahmad M.A. Khattak Anique Mukhtar S. Kazi Saeed Badshah Rafiullah Khan S.F. Mohd Noor N. Ahmad M.A. Khattak Anique Mukhtar S. Kazi Saeed Badshah Rafiullah Khan
Journal of Taibah University for Science, Volume 11, Issue 6, Pages 949-954
Impact Factor: 1.640 | **Citations:** 19
DOI: <https://doi.org/10.1016/j.jtusci.2016.11.005>

Cost Evaluation of Proposed Decommissioning Plan of Candu Reactor 2018
M. A. Khattak Abdoulhdi Aamhmad Borhana Omran Muhammad Salman Khan Hafiz Muhammad Ali Sonia Nawaz Zarak Khan
Journal of Engineering Science and Technology, Volume 13, No.10, Pages 3173-3189
Impact Factor: -
DOI: NA

Numerical Modeling of Phase Transformation during Grinding Process 2017
Muhammad Salman Khan Syed Mushtaq Ahmed Shah M. A. Khattak Muhammad Asad Javed Iqbal Saeed Badshah Syed Mushtaq Ahmed Shah M. A. Khattak Muhammad Asad Javed Iqbal Saeed Badshah
Jurnal Teknologi, Volume 79, Issue 5, Pages 33-41
Impact Factor: - | **Citations:** 1
DOI: <https://doi.org/10.11113/jt.v79.10573>

Experimental investigation of the microscopic damage development at mode I fatigue delamination tips in carbon/epoxy laminates 2016
Rafiullah Khan Rene Alderliesten Saeed Badshah M. A. Khattak Muhammad Salman Khan Rinze Benedictus
Journal Teknologi, Volume 78, Issue 11, Pages 33-40
Impact Factor: - | **Citations:** 9
DOI: [doi:10.11113/jt.v78.8072](https://doi.org/10.11113/jt.v78.8072)

Conference Proceedings

Normalization and weighting methods for precise and standardized sustainability assessment: recent practices in manufacturing 2019
Dr Shamraiz Ahmad K Y Wong I Zahid Z Hussain M S K M Sarfaraz
International Conference on Applications & Design in Mechanical Engineering 2019, res.country(157,)
Citations: N/A
DOI: [doi:10.1088/1757-899X/670/1/012016](https://doi.org/10.1088/1757-899X/670/1/012016)

Editorial Activities

Materials Research Express Reviewed Papers for Journals Impact Factor: 2.2	2025
Engineering Research Express Reviewed Papers for Journals Impact Factor: 1.5	2025
Journal of the Brazilian Society of Mechanical Sciences Reviewed Papers for Journals Impact Factor: 1.8	2024
Discover Applied Sciences Reviewed Papers for Journals Impact Factor: 2.8	2024
Engineering Research Express Reviewed Papers for Journals Impact Factor: 1.7	2024
Mechanics of Time-Dependent Materials Reviewed Papers for Journals Impact Factor: 2.5	2024
Materials Research Express Reviewed Papers for Journals Impact Factor: 2.025	2023