

# Muhammad A Khan

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

842  
citations

516710

16  
h-index

610901

24  
g-index

69  
all docs

69  
docs citations

69  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of microscopic features on the self-cleaning ability of textile fabrics. Textile Reseach Journal, 2023, 93, 450-467.	2.2	6
2	Investigation of the Effect of Temperature on the Wear Rate and Airborne Noise in Sliding Wear. Materials, 2022, 15, 812.	2.9	1
3	Effect of Architected Structural Members on the Viscoelastic Response of 3D Printed Simple Cubic Lattice Structures. Polymers, 2022, 14, 618.	4.5	10
4	Interdependencies between Dynamic Response and Crack Growth in a 3D-Printed Acrylonitrile Butadiene Styrene (ABS) Cantilever Beam under Thermo-Mechanical Loads. Polymers, 2022, 14, 982.	4.5	13
5	Compatibility and challenges in machine learning approach for structural crack assessment. Structural Health Monitoring, 2022, 21, 2481-2502.	7.5	9
6	Experimental and theoretical aspects of crack assisted failures of metallic alloys in corrosive environments " A review. Materials Today: Proceedings, 2022, 66, 2530-2535.	1.8	6
7	Analytical Review of Cybersecurity for Embedded Systems. IEEE Access, 2021, 9, 961-982.	4.2	10
8	Review of Current Guided Wave Ultrasonic Testing (GWUT) Limitations and Future Directions. Sensors, 2021, 21, 811.	3.8	58
9	Current challenges in modelling vibrational fatigue and fracture of structures: a review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	12
10	Predictive Modeling of Surface Wear in Mechanical Contacts under Lubricated and Non-Lubricated Conditions. Sensors, 2021, 21, 1160.	3.8	1
11	A Novel Twofold Symmetry Architected Metamaterials with High Compressibility and Negative Poisson's Ratio. Advanced Engineering Materials, 2021, 23, 2001041.	3.5	8
12	Micromechanical modeling approach with simplified boundary conditions to compute electromechanical properties of architected piezoelectric composites. Smart Materials and Structures, 2021, 30, 035013.	3.5	5
13	Realizing surface amphiphobicity using 3D printing techniques: A critical move towards manufacturing low-cost reentrant geometries. Additive Manufacturing, 2021, 38, 101777.	3.0	9
14	Manufacturing Pitch and Polyethylene Blends-Based Fibres as Potential Carbon Fibre Precursors. Polymers, 2021, 13, 1445.	4.5	8
15	Interdependence of friction, wear, and noise: A review. Friction, 2021, 9, 1319-1345.	6.4	25
16	Characterising Modal Behaviour of a Cantilever Beam at Different Heating Rates for Isothermal Conditions. Applied Sciences (Switzerland), 2021, 11, 4375.	2.5	7
17	Evolution and new horizons in modeling crack mechanics of 3D printing polymeric structures. Materials Today Chemistry, 2021, 20, 100393.	3.5	16
18	Effects of Printing Parameters on the Fatigue Behaviour of 3D-Printed ABS under Dynamic Thermo-Mechanical Loads. Polymers, 2021, 13, 2362.	4.5	44

#	ARTICLE	IF	CITATIONS
19	Influence of High-Concentration LLDPE on the Manufacturing Process and Morphology of Pitch/LLDPE Fibres. <i>Crystals</i> , 2021, 11, 1099.	2.2	4
20	Performance of engineered fibre reinforced concrete (EFRC) under different load regimes: A review. <i>Construction and Building Materials</i> , 2021, 306, 124692.	7.2	11
21	Scalable wear resistant 3D printed slippery liquid infused porous surfaces (SLIPS). <i>Additive Manufacturing</i> , 2021, 48, 102379.	3.0	6
22	Modelling and Investigation of Crack Growth for 3D-Printed Acrylonitrile Butadiene Styrene (ABS) with Various Printing Parameters and Ambient Temperatures. <i>Polymers</i> , 2021, 13, 3737.	4.5	18
23	Investigating the Structural Dynamics and Crack Propagation Behavior under Uniform and Non-Uniform Temperature Conditions. <i>Materials</i> , 2021, 14, 7071.	2.9	2
24	Wear and Airborne Noise Interdependency at Asperitical Level: Analytical Modelling and Experimental Validation. <i>Materials</i> , 2021, 14, 7308.	2.9	2
25	Mechanical Properties and Energy Absorption Characteristics of Additively Manufactured Lightweight Novel Re-Entrant Plate-Based Lattice Structures. <i>Polymers</i> , 2021, 13, 3882.	4.5	13
26	The Effect of Printing Parameters on Crack Growth Rate of FDM ABS Cantilever Beam under Thermo-mechanical Loads. <i>Procedia Structural Integrity</i> , 2021, 34, 59-64.	0.8	4
27	Non-Invasive Inspections: A Review on Methods and Tools. <i>Sensors</i> , 2021, 21, 8474.	3.8	13
28	A novel approach for damage quantification using the dynamic response of a metallic beam under thermo-mechanical loads. <i>Journal of Sound and Vibration</i> , 2020, 469, 115134.	3.9	18
29	Simulation of blended nonlinear hydrodynamics forces using radial basis function in uniform moving frame. <i>Ocean Engineering</i> , 2020, 198, 106994.	4.3	1
30	Self-Healing Mechanisms for 3D-Printed Polymeric Structures: From Lab to Reality. <i>Polymers</i> , 2020, 12, 1534.	4.5	36
31	A Machine Learning Approach to Model Interdependencies between Dynamic Response and Crack Propagation. <i>Sensors</i> , 2020, 20, 6847.	3.8	14
32	Manufacturing carbon fibres from pitch and polyethylene blend precursors: a review. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7786-7806.	5.8	57
33	Ontology - based context resolution in internet of things enabled diagnostics. <i>IFAC-PapersOnLine</i> , 2020, 53, 251-256.	0.9	3
34	Prediction of Crack Depth and Fatigue Life of an Acrylonitrile Butadiene Styrene Cantilever Beam Using Dynamic Response. <i>Journal of Testing and Evaluation</i> , 2020, 48, 1520-1536.	0.7	18
35	Ontology-Based Context Modeling in Physical Asset Integrity Management. <i>Frontiers in Computer Science</i> , 2020, 2, .	2.8	1
36	Material Mechanics of Crack Growth in Structural Dynamics. <i>Procedia Structural Integrity</i> , 2019, 17, 72-79.	0.8	4

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37	Piezoelectric Metamaterial with Negative and Zero Poisson's Ratios. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	22
38	Experimental and numerical study of the effect of silica filler on the tensile strength of a 3D-printed particulate nanocomposite. Comptes Rendus - Mecanique, 2019, 347, 615-625.	2.1	7
39	Investigation of the strain-rate-dependent mechanical behavior of a photopolymer matrix composite with fumed nano-silica filler. Polymer Engineering and Science, 2019, 59, 1695-1700.	3.1	5
40	Gear misalignment diagnosis using statistical features of vibration and airborne sound spectrums. Measurement: Journal of the International Measurement Confederation, 2019, 145, 419-435.	5.0	33
41	Analytical and numerical assessment of the effect of highly conductive inclusions distribution on the thermal conductivity of particulate composites. Journal of Composite Materials, 2019, 53, 3499-3514.	2.4	8
42	Frequency and Amplitude Measurement of A Cantilever Beam Using Image Processing : With A Feedback System. , 2019, , .		0
43	In-Situ Dynamic Response Measurement for Damage Quantification of 3D Printed ABS Cantilever Beam under Thermomechanical Load. Polymers, 2019, 11, 2079.	4.5	23
44	A methodology for flexibility analysis of pipeline systems. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2019, 233, 893-907.	2.5	3
45	3-3 piezoelectric metamaterial with negative and zero Poisson's ratio for hydrophones applications. Materials Research Bulletin, 2019, 112, 194-204.	5.2	29
46	Instant Dynamic Response Measurements for Crack Monitoring in Metallic Beams. Insight: Non-Destructive Testing and Condition Monitoring, 2019, 61, 222-229.	0.6	11
47	Effect of carbon fiber winding layer on torsional characteristics of filament wound composite shafts. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	10
48	Identification of an effective nondestructive technique for bond defect determination in laminate composites—A technical review. Journal of Composite Materials, 2018, 52, 3589-3599.	2.4	29
49	A methodology for flexibility analysis of process piping. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2018, 232, 751-761.	2.5	4
50	Predicting the effect of voids on mechanical properties of woven composites. IOP Conference Series: Materials Science and Engineering, 2018, 406, 012007.	0.6	0
51	A novel test configuration design method for inverse identification of in-plane moduli of a composite plate under the PFEUM framework. Strain, 2018, 54, e12280.	2.4	0
52	Effect of hybrid reinforcement on the performance of filament wound hollow shaft. Composite Structures, 2018, 184, 378-387.	5.8	19
53	Performance assessment of alternate refrigerants for retrofitting R22 based air conditioning system. Thermal Science, 2018, 22, 931-941.	1.1	7
54	Micromechanical modeling of 8-harness satin weave glass fiber-reinforced composites. Journal of Composite Materials, 2017, 51, 705-720.	2.4	28

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55	Overall equipment effectiveness of tyre curing press: a case study. <i>Journal of Quality in Maintenance Engineering</i> , 2017, 23, 39-56.	1.7	17
56	Response of Gaussian-modulated guided wave in aluminum: An analytical, numerical, and experimental study. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3057-3065.	2.1	4
57	A Projected Finite Element Update Method for Inverse Identification of Material Constitutive Parameters in transversely Isotropic Laminates. <i>Experimental Mechanics</i> , 2017, 57, 755-772.	2.0	10
58	Reducing machining distortion in AA 6061 alloy through re-heating technique. <i>Materials Science and Technology</i> , 2017, 33, 731-737.	1.6	14
59	Effective thermal conductivity of two-phase composites containing highly conductive inclusions. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 1586-1599.	3.1	11
60	Assessment of material properties of AISI 316L stainless steel using non-destructive testing. <i>Nondestructive Testing and Evaluation</i> , 2016, 31, 360-370.	2.1	13
61	Image based portable wear debris analysis tool. <i>Industrial Lubrication and Tribology</i> , 2015, 67, 389-398.	1.3	3
62	Mechanical fatigue in aluminium at elevated temperature and remaining life prediction based on natural frequency evolution. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 897-903.	3.4	24
63	Comparison of Cut Path Deviation Between CO2 and Diode Lasers in Float-Glass Cutting. <i>Journal of Russian Laser Research</i> , 2014, 35, 182-192.	0.6	0
64	The Stress Distribution of Gear Tooth Due to Axial Misalignment Condition. <i>Journal of Applied Sciences</i> , 2012, 12, 2404-2410.	0.3	14
65	BS&EISO Helical Gear Fatigue Life Estimation and Wear Quantitative Feature Analysis. <i>Strain</i> , 2009, 45, 358-363.	2.4	7
66	Callus Induction and in vitro Complete Plant Regeneration of Different Cultivars of Tobacco ( <i>Nicotiana tabacum</i> L.) on Media of Different Hormonal Concentrations. <i>Biotechnology</i> , 2007, 6, 561-566.	0.1	11
67	Micromechanical modeling of architected piezoelectric foam with simplified boundary conditions for hydrophone applications. <i>Journal of Intelligent Material Systems and Structures</i> , 0, , 1045389X2098391.	2.5	0
68	Wear Behavior of 3D Printed PLA Surfaces for Superhydrophobic Interaction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3