

Khameel B Mustapha

List of Publications by Year in descending order

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38
papers

1,246
citations

759233

12
h-index

552781

26
g-index

40
all docs

40
docs citations

40
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical analysis of the impacts of COVID-19 on the global economy and ecosystems and opportunities for circular economy strategies. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105169.	10.8	483
2	Perovskite solar cells: An integrated hybrid lifecycle assessment and review in comparison with other photovoltaic technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 1321-1344.	16.4	240
3	Decarbonising ceramic manufacturing: A techno-economic analysis of energy efficient sintering technologies in the functional materials sector. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5213-5235.	5.7	90
4	Are lead-free piezoelectrics more environmentally friendly?. <i>MRS Communications</i> , 2017, 7, 1-7.	1.8	84
5	Free transverse vibration of an axially loaded non-prismatic single-walled carbon nanotube embedded in a two-parameter elastic medium. <i>Computational Materials Science</i> , 2010, 50, 742-751.	3.0	60
6	A review of fused deposition modelling for 3D printing of smart polymeric materials and composites. <i>European Polymer Journal</i> , 2021, 156, 110591.	5.4	51
7	Wave propagation characteristics of a twisted micro scale beam. <i>International Journal of Engineering Science</i> , 2012, 53, 46-57.	5.0	31
8	Stability of single-walled carbon nanotubes and single-walled carbon nanocones under self-weight and an axial tip force. <i>International Journal of Engineering Science</i> , 2012, 50, 268-278.	5.0	29
9	Spectral element analysis of a non-classical model of a spinning micro beam embedded in an elastic medium. <i>Mechanism and Machine Theory</i> , 2012, 53, 66-85.	4.5	25
10	The thermo-mechanical vibration of a single-walled carbon nanotube studied using the Bubnovâ€“Galerkin method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 375-381.	2.7	22
11	Modeling of a functionally graded micro-ring segment for the analysis of coupled extensionalâ€“flexural waves. <i>Composite Structures</i> , 2014, 117, 274-287.	5.8	18
12	Delamination detection in composite plates using random forests. <i>Composite Structures</i> , 2021, 278, 114676.	5.8	15
13	Development of a computational predictive model for the nonlinear in-plane compressive response of sandwich panels with bio-foam. <i>Composite Structures</i> , 2019, 212, 423-433.	5.8	13
14	A hybrid analytical model for the transverse vibration response of a micro-end mill. <i>Mechanical Systems and Signal Processing</i> , 2013, 34, 321-339.	8.0	12
15	A new modeling approach for the dynamics of a micro end mill in high-speed micro-cutting. <i>JVC/Journal of Vibration and Control</i> , 2013, 19, 901-923.	2.6	11
16	Size-dependent axial dynamics of magnetically-sensitive strain gradient microbars with end attachments. <i>International Journal of Mechanical Sciences</i> , 2015, 94-95, 96-110.	6.7	11
17	Eigenanalyses of Functionally Graded Micro-Scale Beams Entrapped in an Axially-Directed Magnetic Field with Elastic Restraints. <i>International Journal of Structural Stability and Dynamics</i> , 2016, 16, 1550022.	2.4	10
18	Free vibration of microscale frameworks using modified couple stress and a combination of Rayleighâ€“Love and Timoshenko theories. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1285-1310.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Blood Flow Modeling to Improve Cardiovascular Diagnostics: Application of A GTF to Predict Central Aortic Pressure using a 1-D Model. International Journal of Engineering and Technology(UAE), 2018, 7, 146.	0.3	6
20	Torsional frequency analyses of microtubules with end attachments. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 824-842.	1.6	5
21	Vibration Behavior of Gravity-Loaded Whirling Micro-Scale Shafts Influenced by an Axial Magnetic Field. International Journal of Structural Stability and Dynamics, 2017, 17, 1750110.	2.4	5
22	Numerical and random forest modelling of the impact response of hierarchical auxetic structures. Materials Today Communications, 2022, 31, 103797.	1.9	5
23	Development of surrogate predictive models for the nonlinear elasto-plastic response of medium density fibreboard-based sandwich structures. International Journal of Lightweight Materials and Manufacture, 2021, 4, 302-314.	2.1	4
24	Coupled extensional-flexural vibration behaviour of a system of elastically connected functionally graded micro-scale panels. European Journal of Computational Mechanics, 2015, 24, 34-63.	0.6	3
25	On the Dynamic Model of a Functionally Graded Spinning Structural Element of an Aircraft Appendage. Applied Mechanics and Materials, 2014, 629, 89-94.	0.2	2
26	Dynamic behaviours of spinning pre-twisted Rayleigh micro-beams. European Journal of Computational Mechanics, 2017, 26, 473-507.	0.6	2
27	Manufacturing, Applications and Mechanical Properties of Lightweight Wood-Based Sandwich Panels. , 2020, , 411-416.		2
28	Characterisations of medium-density fibreboards derived from MalaysianÂMerbau and rubberwood. Journal of the Indian Academy of Wood Science, 0, , 1.	0.9	1
29	Insights into the influence of magnetic fields on the propagation of elastic wave packets within a piezoelectric micro-scale beams. , 2015, , .		0
30	Modeling of Light Propagation and Phonon Conduction inside Metallic Nanoparticles Enhanced Thin-Film Solar Cells. Journal of Nano Research, 2016, 38, 26-35.	0.8	0
31	R for Finite Element Analyses of Size-dependent Microscale Structures. SpringerBriefs in Applied Sciences and Technology, 2019, , .	0.4	0
32	Bending of Microstructure-Dependent MicroBeams and Finite Element Implementations with R. SpringerBriefs in Applied Sciences and Technology, 2019, , 13-45.	0.4	0
33	Vibration and Buckling of Microstructure-Dependent Timoshenko MicroBeams and Finite Element Implementations with R. SpringerBriefs in Applied Sciences and Technology, 2019, , 47-67.	0.4	0
34	Bending and Vibration of Microstructure-Dependent Kirchhoff Microplates and Finite Element Implementations with R. SpringerBriefs in Applied Sciences and Technology, 2019, , 69-99.	0.4	0
35	Wind Turbine Technology: A Strategy to Mitigate Air Pollution through Utilising Wind Energy. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012005.	0.3	0
36	Failure investigation of a fractured vent line. Engineering Failure Analysis, 2021, 124, 105331.	4.0	0

#	ARTICLE	IF	CITATIONS
37	Modelling and Analysis of Natureâ€”inspired Branched Micropillars for Enhanced Dynamic Bioâ€”Sensing. International Journal for Numerical Methods in Biomedical Engineering, 2021, , e3531.	2.1	0
38	Flatwise Compression and Buckling Characterizations of Adhesive-Free Additively Manufactured Defected Architected Structures. Lecture Notes in Mechanical Engineering, 2020, , 279-289.	0.4	0