Khameel B Mustapha

List of Publications by Year
in descending order

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38 papers	1,246 citations	759055 12 h-index	552653 26 g-index
40 all docs	40 docs citations	40 times ranked	1484 citing authors

#	Article	IF	Citations
1	Numerical and random forest modelling of the impact response of hierarchical auxetic structures. Materials Today Communications, 2022, 31, 103797.	0.9	5
2	A critical analysis of the impacts of COVID-19 on the global economy and ecosystems and opportunities for circular economy strategies. Resources, Conservation and Recycling, 2021, 164, 105169.	5.3	483
3	Failure investigation of a fractured vent line. Engineering Failure Analysis, 2021, 124, 105331.	1.8	0
4	A review of fused deposition modelling for 3D printing of smart polymeric materials and composites. European Polymer Journal, 2021, 156, 110591.	2.6	51
5	Delamination detection in composite plates using random forests. Composite Structures, 2021, 278, 114676.	3.1	15
6	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.	1.3	4
7	Modelling and Analysis of Natureâ€inspired Branched Micropillars for Enhanced Dynamic Bioâ€Sensing. International Journal for Numerical Methods in Biomedical Engineering, 2021, , e3531.	1.0	0
8	Manufacturing, Applications and Mechanical Properties of Lightweight Wood-Based Sandwich Panels. , 2020, , 411-416.		2
9	Wind Turbine Technology: A Strategy to Mitigate Air Pollution through Utilising Wind Energy. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012005.	0.2	0
10	Free vibration of microscale frameworks using modified couple stress and a combination of Rayleighâ€“Love and Timoshenko theories. JVC/Journal of Vibration and Control, 2020, 26, 1285-1310.	1.5	6
11	Flatwise Compression and Buckling Characterizations of Adhesive-Free Additively Manufactured Defected Architected Structures. Lecture Notes in Mechanical Engineering, 2020, , 279-289.	0.3	0
12	Decarbonising ceramic manufacturing: A techno-economic analysis of energy efficient sintering technologies in the functional materials sector. Journal of the European Ceramic Society, 2019, 39, 5213-5235.	2.8	90
13	R for Finite Element Analyses of Size-dependent Microscale Structures. SpringerBriefs in Applied Sciences and Technology, 2019, , .	0.2	0
14	Bending of Microstructure-Dependent MicroBeams and Finite Element Implementations with R. SpringerBriefs in Applied Sciences and Technology, 2019, , 13-45.	0.2	0
15	Vibration and Buckling of Microstructure-Dependent Timoshenko MicroBeams and Finite Element Implementations with R. SpringerBriefs in Applied Sciences and Technology, 2019, , 47-67.	0.2	0
16	Bending and Vibration of Microstructure-Dependent Kirchhoff Microplates and Finite Element Implementations with R. SpringerBriefs in Applied Sciences and Technology, 2019, , 69-99.	0.2	0
17	Development of a computational predictive model for the nonlinear in-plane compressive response of sandwich panels with bio-foam. Composite Structures, 2019, 212, 423-433.	3.1	13
18	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.	0.2	6

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19	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.	1.5	5
20	Perovskite solar cells: An integrated hybrid lifecycle assessment and review in comparison with other photovoltaic technologies. Renewable and Sustainable Energy Reviews, 2017, 80, 1321-1344.	8.2	240
21	Are lead-free piezoelectrics more environmentally friendly?. MRS Communications, 2017, 7, 1-7.	0.8	84
22	Dynamic behaviours of spinning pre-twisted Rayleigh micro-beams. European Journal of Computational Mechanics, 2017, 26, 473-507.	0.6	2
23	Torsional frequency analyses of microtubules with end attachments. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 824-842.	0.9	5
24	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
25	Eigenanalyses of Functionally Graded Micro-Scale Beams Entrapped in an Axially-Directed Magnetic Field with Elastic Restraints. International Journal of Structural Stability and Dynamics, 2016, 16, 1550022.	1.5	10
26	Insights into the influence of magnetic fields on the propagation of elastic wave packets within a piezoelectric micro-scale beams. , 2015, , .		0
27	Size-dependent axial dynamics of magnetically-sensitive strain gradient microbars with end attachments. International Journal of Mechanical Sciences, 2015, 94-95, 96-110.	3.6	11
28	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
29	Modeling of a functionally graded micro-ring segment for the analysis of coupled extensionalâ€“flexural waves. Composite Structures, 2014, 117, 274-287.	3.1	18
30	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
31	A hybrid analytical model for the transverse vibration response of a micro-end mill. Mechanical Systems and Signal Processing, 2013, 34, 321-339.	4.4	12
32	A new modeling approach for the dynamics of a micro end mill in high-speed micro-cutting. JVC/Journal of Vibration and Control, 2013, 19, 901-923.	1.5	11
33	Stability of single-walled carbon nanotubes and single-walled carbon nanocones under self-weight and an axial tip force. International Journal of Engineering Science, 2012, 50, 268-278.	2.7	29
34	Wave propagation characteristics of a twisted micro scale beam. International Journal of Engineering Science, 2012, 53, 46-57.	2.7	31
35	Spectral element analysis of a non-classical model of a spinning micro beam embedded in an elastic medium. Mechanism and Machine Theory, 2012, 53, 66-85.	2.7	25
36	The thermo-mechanical vibration of a single-walled carbon nanotube studied using the Bubnovâ€“Galerkin method. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 375-381.	1.3	22

#	Article	IF	Citations
37	Free transverse vibration of an axially loaded non-prismatic single-walled carbon nanotube embedded in a two-parameter elastic medium. Computational Materials Science, 2010, 50, 742-751.	1.4	60
38	Characterisations of medium-density fibreboards derived from MalaysianÂMerbau and rubberwood. Journal of the Indian Academy of Wood Science, 0, , 1.	0.3	1