

Masoud Asgari

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

628
citations

13
h-index

23
g-index

51
ext. papers

756
ext. citations

2.3
avg, IF

5.03
L-index

#	Paper	IF	Citations
49	A new method for design and calculating the mechanical properties and energy absorption behavior of cellular structures using foam microstructure modeling based on Laguerre tessellation. <i>Structures</i> , 2022 , 36, 428-444	3.4	1
48	Novel bio-inspired variable stiffness soft actuator via fiber-reinforced dielectric elastomer, inspired by Octopus bimaculoides. <i>Intelligent Service Robotics</i> , 2021 , 14, 691	2.6	0
47	Mechanical performance of additively manufactured uniform and graded porous structures based on topology-optimized unit cells. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021 , 235, 1593-1618	1.3	4
46	Topology-optimized hybrid solid-lattice structures for efficient mechanical performance. <i>Structures</i> , 2021 , 29, 549-560	3.4	8
45	A basic design for automotive crash boxes using an efficient corrugated conical tube. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021 , 235, 1835-1848	1.4	1
44	An experimental study of nonlinear rate-dependent behaviour of skeletal muscle to obtain passive mechanical properties. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020 , 234, 590-602	1.7	3
43	Architected functionally graded porous lattice structures for optimized elastic-plastic behavior. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020 , 234, 1099-1116	1.3	4
42	Optimized foam filling configuration in bi-tubular crush boxes; a comprehensive experimental and numerical analysis. <i>Engineering Research Express</i> , 2020 , 2, 015012	0.9	1
41	Bi-tubular corrugated composite conical cylindrical tube for energy absorption in axial and oblique loading: Analysis and optimization. <i>Journal of Composite Materials</i> , 2020 , 54, 2399-2432	2.7	9
40	Nonlinear coupled electro-mechanical behavior of a novel anisotropic fiber-reinforced dielectric elastomer. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 119, 103364	2.8	10
39	Comprehensive study on the crashworthiness of a new developed axially-half corrugated aluminum tubes. <i>International Journal of Crashworthiness</i> , 2020 , 1-18	1	5
38	Effect of Fibers Configuration on Nonlinear Vibration of Anisotropic Dielectric Elastomer Membrane. <i>International Journal of Applied Mechanics</i> , 2020 , 12, 2050114	2.4	4
37	Nonlinear size-dependent vibration behavior of graphene nanoplate considering surfaces effects using a multiple-scale technique. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 27, 697-706	1.8	5
36	A new homo-polygonal multi-cell structures under axial and oblique impacts; considering the effect of cell growth in crashworthiness. <i>International Journal of Crashworthiness</i> , 2020 , 25, 628-647	1	9
35	Effect of magnetic-thermal field on nonlinear wave propagation of circular nanoplates. <i>Journal of Electromagnetic Waves and Applications</i> , 2019 , 33, 2296-2316	1.3	3
34	Nonlinear strain gradient analysis of nanoplates embedded in an elastic medium incorporating surface stress effects. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	9
33	Elastic and plastic characterization of a new developed additively manufactured functionally graded porous lattice structure: Analytical and numerical models. <i>International Journal of Mechanical Sciences</i> , 2019 , 155, 248-266	5.5	43

32	Effects of in-phase and anti-phase large amplitude nonlinear models for double-layer nanostructures. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
31	A Novel Structure of Augmented Railgun Using Multilayer Magnets and Sabots. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 3320-3326	1.3	2
30	Hybrid metal-composite conical tubes for energy absorption; theoretical development and numerical simulation. <i>Thin-Walled Structures</i> , 2019 , 145, 106442	4.7	20
29	A novel axially half corrugated thin-walled tube for energy absorption under Axial loading. <i>Thin-Walled Structures</i> , 2019 , 145, 106418	4.7	32
28	Thermo-mechanical vibration of double-layer graphene nanosheets in elastic medium considering surface effects; developing a nonlocal third order shear deformation theory. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 75, 307-321	3.7	7
27	Efficient crushable corrugated conical tubes for energy absorption considering axial and oblique loading. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 3917-3935	1.3	14
26	Energy absorption analysis of a novel foam-filled corrugated composite tube under axial and oblique loadings. <i>Thin-Walled Structures</i> , 2018 , 129, 58-73	4.7	52
25	Novel analytical model for nano-coupler between metal-insulator-metal plasmonic and dielectric slab waveguides. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	5
24	Dynamic analysis and wave propagation in rotating heterogeneous cylinders under moving load and thermal conditions; implementing an efficient mesh free method. <i>Applied Mathematical Modelling</i> , 2018 , 61, 377-407	4.5	8
23	DYNAMIC ANALYSIS OF HEALTHY AND EDGE-TO-EDGE REPAIRED MITRAL VALVE BEHAVIOR SUBJECTED TO HIGH G ACCELERATIONS. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750032	0.7	2
22	A unit-cell-based three-dimensional molecular mechanics analysis for buckling load, effective elasticity and Poisson's ratio determination of the nanosheets. <i>Molecular Simulation</i> , 2016 , 42, 353-369	2	8
21	Optimal material tailoring of 2D heterogeneous cylinder for a prescribed temperature field in transient heat conduction. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016 , 230, 470-483	1.3	2
20	A new bi-tubular conical-circular structure for improving crushing behavior under axial and oblique impacts. <i>International Journal of Mechanical Sciences</i> , 2016 , 105, 253-265	5.5	44
19	Material optimization of functionally graded heterogeneous cylinder for wave propagation. <i>Journal of Composite Materials</i> , 2016 , 50, 3525-3528	2.7	13
18	Correlation of Antiglobulin Reactivity and Severity of Pancytopenia in a Patient with Hemophagocytic Lymphohistiocytosis: A Case Report and Review of Literature. <i>Cureus</i> , 2016 , 8, e711	1.2	1
17	Energy absorption characteristics and a meta-model of miniature frusta under axial impact. <i>International Journal of Crashworthiness</i> , 2016 , 21, 222-230	1	25
16	Explicit expressions describing elastic properties and buckling load of BN nanosheets due to the effects of vacancy defects. <i>Superlattices and Microstructures</i> , 2015 , 88, 668-678	2.8	8
15	Two Dimensional Functionally Graded Material Finite Thick Hollow Cylinder Axisymmetric Vibration Mode Shapes Analysis Based on Exact Elasticity Theory. <i>Journal of Theoretical and Applied Mechanics (Bulgaria)</i> , 2015 , 45, 3-20	5.8	4

14	Material distribution optimization of 2D heterogeneous cylinder under thermo-mechanical loading. <i>Structural Engineering and Mechanics</i> , 2015 , 53, 703-723		11
13	A Unique Case of Malignant Pleuropericardial Effusion: HHV-8-Unrelated PEL-Like Lymphoma-A Case Report and Review of the Literature. <i>Case Reports in Oncological Medicine</i> , 2014 , 2014, 436821	0.9	11
12	Papillary eccrine adenoma should not be mistaken for aggressive digital papillary adenocarcinoma. <i>Clinical and Experimental Dermatology</i> , 2014 , 39, 223-4	1.8	6
11	Is aggressive digital papillary adenocarcinoma really aggressive digital papillary adenocarcinoma?. <i>Dermatology Practical and Conceptual</i> , 2014 , 4, 33-5	1.5	14
10	Papillary adenocarcinoma in situ of the skin: report of four cases. <i>Dermatology Practical and Conceptual</i> , 2014 , 4, 23-8	1.5	6
9	Natural frequency analysis of 2D-FGM thick hollow cylinder based on three-dimensional elasticity equations. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 72-81	3.7	45
8	Thermo-Mechanical Analysis of 2D-FGM Thick Hollow Cylinder Using Graded Finite Elements. <i>Advances in Structural Engineering</i> , 2011 , 14, 1059-1073	1.9	10
7	Transient thermal stresses in two-dimensional functionally graded thick hollow cylinder with finite length. <i>Archive of Applied Mechanics</i> , 2010 , 80, 353-376	2.2	47
6	Dynamic analysis of two-dimensional functionally graded thick hollow cylinder with finite length under impact loading. <i>Acta Mechanica</i> , 2009 , 208, 163-180	2.1	60
5	Transient heat conduction in two-dimensional functionally graded hollow cylinder with finite length. <i>Heat and Mass Transfer</i> , 2009 , 45, 1383-1392	2.2	42
4	Nonlinear dynamic analysis of anisotropic fiber-reinforced dielectric elastomers: A mathematical approach. <i>Journal of Intelligent Material Systems and Structures</i> , 1045389X2199587	2.3	4
3	Fiber reinforcement characteristics of anisotropic dielectric elastomers: A constitutive modeling development. <i>Mechanics of Advanced Materials and Structures</i> , 1-15	1.8	4
2	Crashworthiness of hybrid composite-metal tubes with lateral corrugations in axial and oblique loadings. <i>International Journal of Crashworthiness</i> , 1-17	1	1
1	An integrated energy absorbing module for battery protection of electric vehicle under lateral pole impact. <i>International Journal of Crashworthiness</i> , 1-13	1	