

Reza Jafari Nedoushan

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

376
citations

759233

12
h-index

888059

17
g-index

31
all docs

31
docs citations

31
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel triangular auxetic honeycombs with enhanced stiffness. <i>Composite Structures</i> , 2021, 277, 114605.	5.8	31
2	Numerical simulating the tensile behavior of 1Å–1 rib knitted fabrics using a novel geometrical model. <i>Fibers and Polymers</i> , 2016, 17, 795-800.	2.1	24
3	The crashworthiness performance of thin-walled ultralight braided lattice composite columns: Experimental and finite element study. <i>Composites Part B: Engineering</i> , 2020, 202, 108413.	12.0	23
4	Prediction of deformation behavior of interlock knitted fabrics in different directions using FEM method. <i>Journal of the Textile Institute</i> , 2018, 109, 1-7.	1.9	22
5	Lightweight weft-knitted tubular lattice composite for energy absorption applications: An experimental and numerical study. <i>International Journal of Solids and Structures</i> , 2021, 213, 77-92.	2.7	21
6	Enhanced compressive and energy absorption properties of braided lattice and polyurethane foam hybrid composites. <i>International Journal of Mechanical Sciences</i> , 2021, 207, 106627.	6.7	20
7	Prediction of elastic behavior of plain weft-knitted composites. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 1613-1622.	3.1	18
8	The sources of the micro stress and strain inhomogeneity in dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 384-396.	5.6	17
9	Meso-macro numerical modeling of noncircular braided composite parts based on braiding process parameters. <i>Composite Structures</i> , 2019, 224, 111065.	5.8	17
10	Theoretical and experimental study of braid pattern in mandrels with arbitrary cross-sections. <i>Journal of Composite Materials</i> , 2018, 52, 4009-4022.	2.4	15
11	Experimental and numerical study on stiffness and damage of glass/epoxy biaxial weft-knitted reinforced composites. <i>Journal of Reinforced Plastics and Composites</i> , 2021, 40, 70-83.	3.1	15
12	Multi-Scale Modeling the Mechanical Properties of Biaxial Weft Knitted Fabrics for Composite Applications. <i>Applied Composite Materials</i> , 2017, 24, 863-878.	2.5	13
13	Control of Braid Pattern on Every Side of a Braided Composite Part Produced by Asymmetrical Braiding Process. <i>Applied Composite Materials</i> , 2019, 26, 479-492.	2.5	13
14	Simulation of hot forming processes: Using cost effective micro-structural constitutive models. <i>International Journal of Mechanical Sciences</i> , 2014, 85, 196-204.	6.7	12
15	Prediction and optimization of yarn path in braiding of mandrels with flat faces. <i>Journal of Composite Materials</i> , 2018, 52, 581-592.	2.4	12
16	Determining constitutive behavior of the brain tissue using digital image correlation and finite element modeling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1927-1945.	2.8	12
17	Mechanical properties of glass-reinforced composite/perforated metal sheet hybrids. <i>Functional Composites and Structures</i> , 2020, 2, 035005.	3.4	12
18	Finite Element Modeling of the Compression Garments Structural Effect on the Pressure Applied to Leg. <i>Fibers and Polymers</i> , 2020, 21, 636-645.	2.1	11

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19	Analysis of the mechanical response of a woven polymeric fabric with locally induced damage. <i>Materials & Design</i> , 2014, 54, 279-290.	5.1	10
20	Improvement of energy absorption of expanded metal tubular structures under compressive loads. <i>Thin-Walled Structures</i> , 2020, 157, 107058.	5.3	10
21	Finite element modelling the mechanical performance of pressure garments produced from elastic weft knitted fabrics. <i>Journal of the Textile Institute</i> , 2019, 110, 724-731.	1.9	9
22	Simulation of the spherical deformation of biaxial weft-knitted fabrics using meso and macro models. <i>Fibers and Polymers</i> , 2016, 17, 1702-1708.	2.1	8
23	New auxetic materials with stretch-dominant architecture using simple trusses. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 609-625.	2.6	8
24	A new auxetic structure with enhanced stiffness via stiffened elliptical perforations. <i>Functional Composites and Structures</i> , 2020, 2, 045006.	3.4	7
25	A Microstructure-Based Constitutive Model for Superplastic Forming. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4266-4280.	2.2	6
26	Effects of Strain Rate and Grain Size on Behavior of Nano Crystalline Materials. <i>Journal of Nano Research</i> , 2012, 17, 35-51.	0.8	2
27	A micro-structural model for prediction of void initiation in superplastic forming. <i>International Journal of Damage Mechanics</i> , 2013, 22, 1206-1221.	4.2	2
28	Implementation of multiscale modeling and failure mechanism in investigating load bearing capacity of 3D integrated multi-cellular knitted composites. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 5993-6010.	2.6	2
29	Cost-Effective Method of Optimization of Stacking Sequences in the Cylindrical Composite Shells Using Genetic Algorithm. <i>European Journal of Computational Mechanics</i> , 0, , .	0.0	2
30	Effect of Hydrostatic Pressure on Nano Crystalline Materials Behavior. <i>Journal of Nano Research</i> , 2012, 18-19, 27-42.	0.8	1
31	Experimental Investigation of Magnetic Abrasive Polishing of Paramagnetic Workpieces. <i>Scientia Iranica</i> , 2018, .	0.4	1