

Roham Rafiee

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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.

92
papers

2,831
citations

28
h-index

51
g-index

99
ext. papers

3,282
ext. citations

3.9
avg, IF

6.38
L-index

#	Paper	IF	Citations
92	Prediction of Young's modulus of graphene sheets and carbon nanotubes using nanoscale continuum mechanics approach. <i>Materials & Design</i> , 2010 , 31, 790-795		217
91	On the modeling of carbon nanotubes: A critical review. <i>Composites Part B: Engineering</i> , 2014 , 56, 435-448		171
90	Uncertainty quantification for multiscale modeling of polymer nanocomposites with correlated parameters. <i>Composites Part B: Engineering</i> , 2015 , 68, 446-464	1.0	154
89	A review of the mechanical properties of isolated carbon nanotubes and carbon nanotube composites. <i>Mechanics of Composite Materials</i> , 2010 , 46, 155-172	1.1	151
88	On the tensile behavior of an embedded carbon nanotube in polymer matrix with non-bonded interphase region. <i>Composite Structures</i> , 2010 , 92, 647-652	5.3	149
87	Simulation of fatigue failure in a full composite wind turbine blade. <i>Composite Structures</i> , 2006 , 74, 332-342	3.3	145
86	Investigation of nanotube length effect on the reinforcement efficiency in carbon nanotube based composites. <i>Composite Structures</i> , 2010 , 92, 2415-2420	5.3	106
85	Prediction of mechanical properties of an embedded carbon nanotube in polymer matrix based on developing an equivalent long fiber. <i>Mechanics Research Communications</i> , 2010 , 37, 235-240	2.2	93
84	Uncertainties propagation in metamodel-based probabilistic optimization of CNT/polymer composite structure using stochastic multi-scale modeling. <i>Computational Materials Science</i> , 2014 , 85, 295-305	3.2	78
83	Influence of carbon nanotube waviness on the stiffness reduction of CNT/polymer composites. <i>Composite Structures</i> , 2013 , 97, 304-309	5.3	77
82	On the mechanical performance of glass-fibre-reinforced thermosetting-resin pipes: A review. <i>Composite Structures</i> , 2016 , 143, 151-164	5.3	72
81	Stochastic multi-scale modeling of CNT/polymer composites. <i>Computational Materials Science</i> , 2010 , 50, 437-446	3.2	67
80	Experimental and theoretical investigations on the failure of filament wound GRP pipes. <i>Composites Part B: Engineering</i> , 2013 , 45, 257-267	1.0	65
79	Stochastic prediction of burst pressure in composite pressure vessels. <i>Composite Structures</i> , 2018 , 185, 573-583	5.3	64
78	Influence of CNT functionalization on the interphase region between CNT and polymer. <i>Computational Materials Science</i> , 2015 , 96, 573-578	3.2	61
77	Modeling and experimental evaluation of functional failure pressures in glass fiber reinforced polyester pipes. <i>Computational Materials Science</i> , 2015 , 96, 579-588	3.2	48
76	Investigating structural failure of a filament-wound composite tube subjected to internal pressure: Experimental and theoretical evaluation. <i>Polymer Testing</i> , 2018 , 67, 322-330	4.5	47

75	Simulation of impact and post-impact behavior of carbon nanotube reinforced polymer using multi-scale finite element modeling. <i>Computational Materials Science</i> , 2012 , 63, 261-268	3-2	47
74	Stochastic fatigue analysis of glass fiber reinforced polymer pipes. <i>Composite Structures</i> , 2017 , 167, 96-103	4-3	43
73	Simulation of aeroelastic behavior in a composite wind turbine blade. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016 , 151, 60-69	3-7	41
72	Simulation of the long-term hydrostatic tests on Glass Fiber Reinforced Plastic pipes. <i>Composite Structures</i> , 2016 , 136, 56-63	5-3	40
71	Investigation of chirality and diameter effects on the Young's modulus of carbon nanotubes using non-linear potentials. <i>Composite Structures</i> , 2012 , 94, 2460-2464	5-3	39
70	Simulation of functional failure in GRP mortar pipes. <i>Composite Structures</i> , 2014 , 113, 155-163	5-3	38
69	Characterizing nanotube-polymer interaction using molecular dynamics simulation. <i>Computational Materials Science</i> , 2016 , 112, 356-363	3-2	34
68	Evaluating mechanical performance of GFRP pipes subjected to transverse loading. <i>Thin-Walled Structures</i> , 2018 , 131, 347-359	4-7	34
67	Stochastic multi-scale modeling of randomly grown CNTs on carbon fiber. <i>Mechanics of Materials</i> , 2017 , 106, 1-7	3-3	31
66	Theoretical modeling of fatigue phenomenon in composite pipes. <i>Composite Structures</i> , 2017 , 161, 256-263	4-3	31
65	Modeling creep in polymeric composites: Developing a general integrated procedure. <i>International Journal of Mechanical Sciences</i> , 2015 , 99, 112-120	5-5	28
64	Predicting mechanical properties of nanoclay/polymer composites using stochastic approach. <i>Composites Part B: Engineering</i> , 2018 , 152, 31-42	10	28
63	Stochastic analysis of functional failure pressures in glass fiber reinforced polyester pipes. <i>Materials & Design</i> , 2015 , 67, 422-427		28
62	Mechanical Properties of Nanoclay and Nanoclay Reinforced Polymers: A Review. <i>Polymer Composites</i> , 2019 , 40, 431-445	3	28
61	Estimating Young's modulus of graphene/polymer composites using stochastic multi-scale modeling. <i>Composites Part B: Engineering</i> , 2019 , 173, 106842	10	27
60	Multi-scale modeling of carbon nanotube reinforced polymers using irregular tessellation technique. <i>Mechanics of Materials</i> , 2014 , 78, 74-84	3-3	27
59	On The Stiffness Prediction of GFRP Pipes Subjected to Transverse Loading. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 4564-4572	1-9	24
58	Evaluating the influence of defects on the young's modulus of carbon nanotubes using stochastic modeling. <i>Materials Research</i> , 2014 , 17, 758-766	1-5	24

57	Theoretical and numerical analyses of composite cylinders subjected to the low velocity impact. <i>Composite Structures</i> , 2019 , 226, 111230	5.3	23
56	Challenges of the Modeling Methods for Investigating the Interaction between the CNT and the Surrounding Polymer. <i>Advances in Materials Science and Engineering</i> , 2013 , 2013, 1-10	1.5	23
55	Apparent hoop tensile strength prediction of glass fiber-reinforced polyester pipes. <i>Journal of Composite Materials</i> , 2013 , 47, 1377-1386	2.7	22
54	Comparative study on predicting Young's modulus of graphene sheets using nano-scale continuum mechanics approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 90, 42-48	3	21
53	Influence of non-bonded interphase on crack driving force in carbon nanotube reinforced polymer. <i>Computational Materials Science</i> , 2012 , 56, 25-28	3.2	21
52	The influence of production inconsistencies on the functional failure of GRP pipes. <i>Steel and Composite Structures</i> , 2015 , 19, 1369-1379		21
51	Evaluating long-term performance of Glass Fiber Reinforced Plastic pipes subjected to internal pressure. <i>Construction and Building Materials</i> , 2016 , 122, 694-701	6.7	20
50	A modal analysis of carbon-nanotube-reinforced polymer by using a multiscale finite-element method. <i>Mechanics of Composite Materials</i> , 2013 , 49, 325-332	1.1	20
49	Development of a full range multi-scale model to obtain elastic properties of CNT/polymer composites. <i>Iranian Polymer Journal (English Edition)</i> , 2012 , 21, 397-402	2.3	20
48	Predicting mechanical properties of fuzzy fiber reinforced composites: radially grown carbon nanotubes on the carbon fiber. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 37-50	2.5	18
47	Fracture investigation of wood under mixed mode I/II loading based on the maximum shear stress criterion. <i>Strength of Materials</i> , 2013 , 45, 378-385	0.6	16
46	Numerical and Experimental Analyses of the Hoop Tensile Strength of Filament-Wound Composite Tubes. <i>Mechanics of Composite Materials</i> , 2020 , 56, 423-436	1.1	15
45	Developing a micro-macromechanical approach for evaluating long-term creep in composite cylinders. <i>Thin-Walled Structures</i> , 2020 , 151, 106714	4.7	14
44	Characterizing delamination toughness of laminated composites containing carbon nanotubes: Experimental study and stochastic multi-scale modeling. <i>Composites Science and Technology</i> , 2021 , 201, 108487	8.6	14
43	Predicting Young's modulus of agglomerated graphene/polymer using multi-scale modeling. <i>Composite Structures</i> , 2020 , 245, 112324	5.3	13
42	Investigating the influence of bonded and non-bonded interactions on the interfacial bonding between carbon nanotube and polymer. <i>Composite Structures</i> , 2020 , 238, 111996	5.3	12
41	The influence of material properties on the aeroelastic behavior of a composite wind turbine blade. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 063305	2.5	12
40	Fatigue analysis of a composite ring: Experimental and theoretical investigations. <i>Journal of Composite Materials</i> , 2020 , 54, 4011-4024	2.7	11

39	Investigating interaction between CNT and polymer using cohesive zone model. <i>Polymer Composites</i> , 2018 , 39, 3903-3911	3	11
38	Stochastic failure analysis of composite pipes subjected to random excitation. <i>Construction and Building Materials</i> , 2019 , 224, 950-961	6.7	10
37	Theoretical study of failure in composite pressure vessels subjected to low-velocity impact and internal pressure. <i>Frontiers of Structural and Civil Engineering</i> , 2020 , 14, 1349-1358	2.5	9
36	The influence of fiber-crack angle on the crack tip parameters in orthotropic materials. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017 , 231, 418-431	1.3	8
35	A study on nonlinear vibration behavior of CNT-based representative volume element. <i>Aerospace Science and Technology</i> , 2016 , 55, 272-281	4.9	8
34	Investigating the influence of delamination on the stiffness of composite pipes under compressive transverse loading using cohesive zone method. <i>Frontiers of Structural and Civil Engineering</i> , 2019 , 13, 1316-1323	2.5	8
33	Predicting the strength of carbon nanotube reinforced polymers using stochastic bottom-up modeling. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	8
32	A Study on Equivalent Spherical Structure of Buckyball-C 60 Based on Continuum Shell Model. <i>Latin American Journal of Solids and Structures</i> , 2016 , 13, 1016-1029	1.4	8
31	The influence of hygrothermal environments on the stress concentration in unidirectional composite lamina. <i>Mechanics of Materials</i> , 2019 , 129, 332-340	3.3	8
30	The Influence of CNT Contents on the Electrical and Electromagnetic Properties of CNT/Vinylester. <i>Journal of Electronic Materials</i> , 2014 , 43, 3477-3485	1.9	7
29	Aeroelastic investigation of a composite wind turbine blade. <i>Wind and Structures, an International Journal</i> , 2013 , 17, 671-680		7
28	Analyzing the long-term creep behavior of composite pipes: Developing an alternative scenario of short-term multi-stage loading test. <i>Composite Structures</i> , 2020 , 254, 112868	5.3	7
27	A study on fracture behavior of semi-elliptical 3D crack in clay-polymer nanocomposites considering interfacial debonding. <i>Engineering Fracture Mechanics</i> , 2019 , 209, 245-259	4.2	6
26	Experimental study on the effect of hygrothermal environments combined with the sustained mechanical loads on the strength of composite rings. <i>Composite Structures</i> , 2021 , 258, 113397	5.3	6
25	Failure analysis of a composite wind turbine blade at the adhesive joint of the trailing edge. <i>Engineering Failure Analysis</i> , 2021 , 121, 105148	3.2	5
24	Experimental and Theoretical Investigations of Creep on a Composite Pipe under Compressive Transverse Loading. <i>Fibers and Polymers</i> , 2021 , 22, 222-230	2	5
23	3D stress analysis of generally laminated piezoelectric plates with electromechanical coupling effects. <i>Applied Mathematical Modelling</i> , 2019 , 74, 258-279	4.5	4
22	Molecular dynamics simulation of defected carbon nanotubes. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016 , 230, 654-662	1.3	4

21	Prediction of Mechanical Properties of CNT Based Composites Using Multi-Scale Modeling and Stochastic Analysis. <i>Springer Series in Materials Science</i> , 2014 , 201-238	0.9	4
20	Developing a homogenization approach for estimation of in-plan effective elastic moduli of hexagonal honeycombs. <i>Engineering Analysis With Boundary Elements</i> , 2020 , 117, 202-211	2.6	3
19	Carbon Nanotubes Processing 2018 , 41-59		3
18	Transition angle, a novel concept for predicting the failure mode in orthotropic materials. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013 , 227, 2157-2164	1.3	3
17	Fatigue life prediction of wind turbine rotor blades manufactured from composites 2010 , 505-537		2
16	A cohesive zone model for predicting the initiation of Mode II delamination in composites under cyclic loading. <i>Journal of Reinforced Plastics and Composites</i> , 2021 , 40, 179-192	2.9	2
15	Stochastic Modeling of CNT-Grown Fibers 2018 , 521-540		2
14	Numerical investigation of the effect of moisture and impurity on long-term creep behavior of polymer composite pipes. <i>International Journal of Pressure Vessels and Piping</i> , 2021 , 193, 104456	2.4	2
13	A novel recursive multi-scale modeling for predicting the burst pressure of filament wound composite pressure vessels. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	2
12	Advances in Characterization and Modeling of Nanoreinforced Composites. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-1	3.2	1
11	Multi-scale Modeling of Polymeric Composites Including Nanoporous Fillers of Milled Anodic Alumina. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	1
10	A hysteresis cohesive approach for predicting mixed-mode delamination onset of composite laminates under cyclic loading: Part I, model development. <i>Composite Structures</i> , 2021 , 277, 114667	5.3	1
9	A hysteresis cohesive approach for predicting mixed-mode delamination onset of composite laminates under cyclic loading: Part II, numerical and experimental analyses. <i>Composite Structures</i> , 2021 , 277, 114668	5.3	1
8	Estimating the burst pressure of a filament wound composite pressure vessel using two-scale and multi-scale analyses. <i>Mechanics of Advanced Materials and Structures</i> ,1-16	1.8	1
7	Determining in-plane material properties of square core cellular materials using computational homogenization technique. <i>Engineering With Computers</i> ,1	4.5	0
6	Experimental investigation of graphene nanoplatelets effect on the fatigue behavior of basalt/epoxy composite pressure vessels. <i>Thin-Walled Structures</i> , 2022 , 171, 108672	4.7	0
5	Bending Analysis of Molded Composite Grating Panels: Theoretical and Experimental Investigations. <i>Fibers and Polymers</i> , 2021 , 22, 1653	2	0
4	Stochastic Multiscale Modeling of CNT/Polymer 2018 , 503-520		0

- 3 Modeling, Characterization, and Processing of Advanced Composites. *Advances in Materials Science and Engineering*, **2013**, 2013, 1-2 1.5
- 2 Dental composites with strength after aging improved by using anodic nanoporous fillers: experimental results, modeling, and simulations. *Engineering With Computers*,1 4.5
- 1 On the Mechanical Properties of Functionalized CNT Reinforced Polymer **2015**, 610-627