

Shailesh Kundalwal

List of Publications by Year in Descending Order

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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.

59
papers

1,536
citations

19
h-index

38
g-index

61
ext. papers

1,909
ext. citations

3.4
avg, IF

5.85
L-index

#	Paper	IF	Citations
59	Polarization in graphene nanoribbons with inherent defects using first-principles calculations. <i>Acta Mechanica</i> , 2022 , 233, 399-411	2.1	0
58	Smart damping of a simply supported laminated CNT-based hybrid composite plate using FE approach. <i>Thin-Walled Structures</i> , 2022 , 171, 108782	4.7	0
57	Adsorption and desorption behavior of titanium-decorated polycrystalline graphene toward hydrogen storage: a molecular dynamics study. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	0
56	Investigation of hydrogen adsorption behavior of graphene under varied conditions using a novel energy-centered method. <i>Carbon Letters</i> , 2021 , 31, 655	2.3	5
55	Enhancement of piezoelectric and flexoelectric response of boron nitride sheet superlattices via interface and defect engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 127, 114563	3	2
54	Dynamic modelling and analysis of smart carbon nanotube-based hybrid composite beams: Analytical and finite element study. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 235, 2185-2206	1.3	1
53	Thermal performance of heat sink using nano-enhanced phase change material (NePCM) for cooling of electronic components. <i>Microelectronics Reliability</i> , 2021 , 121, 114144	1.2	13
52	Strain and defect engineering of graphene for hydrogen storage via atomistic modelling. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 22599-22610	6.7	8
51	Adhesive and viscoelastic response of MWCNT/ZrO ₂ hybrid epoxy nanocomposites. <i>Journal of Mechanics of Materials and Structures</i> , 2021 , 16, 281-292	1.2	2
50	Flexoelectric effect in boron nitride-graphene heterostructures. <i>Acta Mechanica</i> , 2021 , 232, 3781	2.1	6
49	Thermal performance of phase change material-based heat sink for passive cooling of electronic components: An experimental study. <i>International Journal of Energy Research</i> , 2021 , 45, 5939-5963	4.5	8
48	Selection of phase-change material for thermal management of electronic devices using multi-attribute decision-making technique. <i>International Journal of Energy Research</i> , 2021 , 45, 2023-2042	4.5	10
47	A comparative study and optimization of phase change material based heat sinks for thermal management of electronic components. <i>Journal of Energy Storage</i> , 2021 , 43, 103224	7.8	4
46	Numerical investigation of cross plate fin heat sink integrated with phase change material for cooling application of portable electronic devices. <i>International Journal of Energy Research</i> , 2021 , 45, 8666-8683	4.5	7
45	Transversely isotropic elastic properties of multi-walled boron nitride nanotubes under a thermal environment. <i>Nanotechnology</i> , 2020 , 31, 395707	3.4	4
44	Mechanical and fracture behavior of MWCNT/ZrO ₂ /epoxy nanocomposite systems: Experimental and numerical study. <i>Polymer Composites</i> , 2020 , 41, 2491-2507	3	13
43	Improved mechanical and viscoelastic properties of CNT-composites fabricated using an innovative ultrasonic dual mixing technique. <i>Journal of the Mechanical Behavior of Materials</i> , 2020 , 29, 77-85	1.9	13

42	Effect of carbon doping on electromechanical response of boron nitride nanosheets. <i>Nanotechnology</i> , 2020 , 31, 405710	3-4	11
41	Flexoelectric and surface effects on the electromechanical behavior of graphene-based nanobeams. <i>Applied Mathematical Modelling</i> , 2020 , 81, 70-91	4-5	9
40	Electromechanical response of thin shell laminated with flexoelectric composite layer. <i>Thin-Walled Structures</i> , 2020 , 157, 107138	4-7	8
39	Effect of Stone-Wales defects on the mechanical behavior of boron nitride nanotubes. <i>Acta Mechanica</i> , 2020 , 231, 4003-4018	2-1	4
38	Role of grain boundaries on the thermal properties of carbon nanotubes. <i>Materials Today: Proceedings</i> , 2020 , 23, 622-625	1-4	
37	Evaluation of effective properties for smart graphene reinforced nanocomposite materials. <i>Materials Today: Proceedings</i> , 2020 , 23, 523-527	1-4	2
36	Static and dynamic response of graphene nanocomposite plates with flexoelectric effect. <i>Mechanics of Materials</i> , 2019 , 134, 69-84	3-3	34
35	Comprehensive analysis of melting and solidification of a phase change material in an annulus. <i>Heat and Mass Transfer</i> , 2019 , 55, 769-790	2-2	14
34	Analysis of solidification in a finite PCM storage with internal fins by employing heat balance integral method. <i>International Journal of Energy Research</i> , 2019 , 43, 6366-6388	4-5	11
33	Effect of atom vacancies on elastic and electronic properties of transversely isotropic boron nitride nanotubes: A comprehensive computational study. <i>Computational Materials Science</i> , 2019 , 156, 332-345	3-2	19
32	Effect of flexoelectricity on the electromechanical response of graphene nanocomposite beam. <i>International Journal of Mechanics and Materials in Design</i> , 2019 , 15, 447-470	2-5	16
31	Transversely isotropic elastic properties of carbon nanotubes containing vacancy defects using MD. <i>Acta Mechanica</i> , 2018 , 229, 2571-2584	2-1	30
30	Transversely isotropic thermal properties of carbon nanotubes containing vacancies. <i>Acta Mechanica</i> , 2018 , 229, 2787-2800	2-1	16
29	Modeling of thermomechanical properties of polymeric hybrid nanocomposites. <i>Polymer Composites</i> , 2018 , 39, 4148-4164	3	14
28	Review on micromechanics of nano- and micro-fiber reinforced composites. <i>Polymer Composites</i> , 2018 , 39, 4243-4274	3	41
27	Transversely Isotropic Elastic Properties of Vacancy Defected Boron Nitride Nanotubes Using Molecular Dynamics Simulations 2018 ,		3
26	Strain gradient polarization in graphene. <i>Carbon</i> , 2017 , 117, 462-472	10-4	81
25	Multiscale modeling of regularly staggered carbon fibers embedded in nano-reinforced composites. <i>European Journal of Mechanics, A/Solids</i> , 2017 , 64, 69-84	3-7	41

24	Interfacial characteristics of hybrid nanocomposite under thermomechanical loading. <i>Journal of the Mechanical Behavior of Materials</i> , 2017 , 26, 95-103	1.9	10
23	Unraveling the influence of grain boundaries on the mechanical properties of polycrystalline carbon nanotubes. <i>Carbon</i> , 2017 , 125, 180-188	10.4	29
22	Control of large amplitude vibrations of doubly curved sandwich shells composed of fuzzy fiber reinforced composite facings. <i>Aerospace Science and Technology</i> , 2017 , 70, 10-28	4.9	29
21	Smart damping of fuzzy fiber reinforced composite plates using 1--3 piezoelectric composites. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 1526-1546	2	41
20	Gas barrier performance of graphene/polymer nanocomposites. <i>Carbon</i> , 2016 , 98, 313-333	10.4	387
19	Multiscale modeling of stress transfer in continuous microscale fiber reinforced composites with nano-engineered interphase. <i>Mechanics of Materials</i> , 2016 , 102, 117-131	3.3	53
18	Effective Thermal Conductivities of a Novel Fuzzy Fiber-Reinforced Composite Containing Wavy Carbon Nanotubes. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	13
17	Multiscale modeling of carbon nanotube epoxy composites. <i>Polymer</i> , 2015 , 70, 149-160	3.9	111
16	Interfacial and mechanical properties of epoxy nanocomposites using different multiscale modeling schemes. <i>Composite Structures</i> , 2015 , 131, 545-555	5.3	66
15	Effect of carbon nanotube waviness on active damping of laminated hybrid composite shells. <i>Acta Mechanica</i> , 2015 , 226, 2035-2052	2.1	42
14	Shear lag analysis of a novel short fuzzy fiber-reinforced composite. <i>Acta Mechanica</i> , 2014 , 225, 2621-2643		17
13	Effective thermal conductivities of a novel fuzzy carbon fiber heat exchanger containing wavy carbon nanotubes. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 72, 440-451	4.9	24
12	Effect of Carbon Nanotube Waviness on the Load Transfer Characteristics of Short Fuzzy Fiber-Reinforced Composite. <i>Journal of Nanomechanics & Micromechanics</i> , 2014 , 4,		7
11	Improved thermoelastic coefficients of a novel short fuzzy fiber-reinforced composite with wavy carbon nanotubes. <i>Journal of Mechanics of Materials and Structures</i> , 2014 , 9, 1-25	1.2	19
10	Shear Lag Model for Regularly Staggered Short Fuzzy Fiber Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	17
9	Smart damping of laminated fuzzy fiber reinforced composite shells using 1B piezoelectric composites. <i>Smart Materials and Structures</i> , 2013 , 22, 105001	3.4	35
8	Effect of Carbon Nanotube Waviness on the Elastic Properties of the Fuzzy Fiber Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	33
7	Thermoelastic Properties of a Novel Fuzzy Fiber-Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	11

6	Effective properties of a novel composite reinforced with short carbon fibers and radially aligned carbon nanotubes. <i>Mechanics of Materials</i> , 2012 , 53, 47-60	3.3	62
5	Micromechanical analysis of fuzzy fiber reinforced composites. <i>International Journal of Mechanics and Materials in Design</i> , 2011 , 7, 149-166	2.5	78
4	Micromechanical analysis of effective mechanical properties of graphene/ZrO ₂ -hybrid poly (methyl methacrylate) nanocomposites. <i>Journal of Micromanufacturing</i> ,251659842110388	1.7	0
3	Experimental investigation on paraffin wax-based heat sinks with cross plate fin arrangement for cooling of electronic components. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	
2	Synergistic effect of ultrasonically assisted exfoliated MWCNTs by ZrO ₂ nanoparticles on thermo-mechanical and anti-corrosive properties of epoxy nanocomposites. <i>Journal of Composite Materials</i> ,002199832210847	2.7	0
1	Effect of orientation of CNTs and piezoelectric fibers on the damping performance of multiscale composite plate. <i>Journal of Intelligent Material Systems and Structures</i> ,1045389X2210994	2.3	0