

Shailesh Kundalwal

List of Publications by Citations

Source: <https://exaly.com/author-pdf/113696/shailesh-kundalwal-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Gas barrier performance of graphene/polymer nanocomposites. <i>Carbon</i> , 2016 , 98, 313-333	10.4	387
58	Multiscale modeling of carbon nanotube epoxy composites. <i>Polymer</i> , 2015 , 70, 149-160	3.9	111
57	Strain gradient polarization in graphene. <i>Carbon</i> , 2017 , 117, 462-472	10.4	81
56	Micromechanical analysis of fuzzy fiber reinforced composites. <i>International Journal of Mechanics and Materials in Design</i> , 2011 , 7, 149-166	2.5	78
55	Interfacial and mechanical properties of epoxy nanocomposites using different multiscale modeling schemes. <i>Composite Structures</i> , 2015 , 131, 545-555	5.3	66
54	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
53	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
52	Effect of carbon nanotube waviness on active damping of laminated hybrid composite shells. <i>Acta Mechanica</i> , 2015 , 226, 2035-2052	2.1	42
51	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
50	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
49	Review on micromechanics of nano- and micro-fiber reinforced composites. <i>Polymer Composites</i> , 2018 , 39, 4243-4274	3	41
48	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
47	Static and dynamic response of graphene nanocomposite plates with flexoelectric effect. <i>Mechanics of Materials</i> , 2019 , 134, 69-84	3.3	34
46	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
45	Transversely isotropic elastic properties of carbon nanotubes containing vacancy defects using MD. <i>Acta Mechanica</i> , 2018 , 229, 2571-2584	2.1	30
44	Unraveling the influence of grain boundaries on the mechanical properties of polycrystalline carbon nanotubes. <i>Carbon</i> , 2017 , 125, 180-188	10.4	29
43	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

42	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
41	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
40	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
39	Shear lag analysis of a novel short fuzzy fiber-reinforced composite. <i>Acta Mechanica</i> , 2014 , 225, 2621-2643	1.3	17
38	Shear Lag Model for Regularly Staggered Short Fuzzy Fiber Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	17
37	Transversely isotropic thermal properties of carbon nanotubes containing vacancies. <i>Acta Mechanica</i> , 2018 , 229, 2787-2800	2.1	16
36	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
35	Modeling of thermomechanical properties of polymeric hybrid nanocomposites. <i>Polymer Composites</i> , 2018 , 39, 4148-4164	3	14
34	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
33	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
32	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
31	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
30	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
29	Thermoelastic Properties of a Novel Fuzzy Fiber-Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	11
28	Effect of carbon doping on electromechanical response of boron nitride nanosheets. <i>Nanotechnology</i> , 2020 , 31, 405710	3.4	11
27	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
26	Interfacial characteristics of hybrid nanocomposite under thermomechanical loading. <i>Journal of the Mechanical Behavior of Materials</i> , 2017 , 26, 95-103	1.9	10
25	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

24	Flexoelectric and surface effects on the electromechanical behavior of graphene-based nanobeams. <i>Applied Mathematical Modelling</i> , 2020 , 81, 70-91	4.5	9
23	Electromechanical response of thin shell laminated with flexoelectric composite layer. <i>Thin-Walled Structures</i> , 2020 , 157, 107138	4.7	8
22	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
21	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
20	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
19	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
18	Flexoelectric effect in boron nitride-graphene heterostructures. <i>Acta Mechanica</i> , 2021 , 232, 3781	2.1	6
17	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
16	Transversely isotropic elastic properties of multi-walled boron nitride nanotubes under a thermal environment. <i>Nanotechnology</i> , 2020 , 31, 395707	3.4	4
15	Effect of Stone-Wales defects on the mechanical behavior of boron nitride nanotubes. <i>Acta Mechanica</i> , 2020 , 231, 4003-4018	2.1	4
14	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
13	Transversely Isotropic Elastic Properties of Vacancy Defected Boron Nitride Nanotubes Using Molecular Dynamics Simulations 2018 ,		3
12	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
11	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
10	Evaluation of effective properties for smart graphene reinforced nanocomposite materials. <i>Materials Today: Proceedings</i> , 2020 , 23, 523-527	1.4	2
9	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
8	Polarization in graphene nanoribbons with inherent defects using first-principles calculations. <i>Acta Mechanica</i> , 2022 , 233, 399-411	2.1	0
7	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

6	Micromechanical analysis of effective mechanical properties of graphene/ZrO ₂ -hybrid poly (methyl methacrylate) nanocomposites. <i>Journal of Micromanufacturing</i> ,251659842110388	1.7	○
5	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	○
4	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	○
3	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	○
2	Role of grain boundaries on the thermal properties of carbon nanotubes. <i>Materials Today: Proceedings</i> , 2020 , 23, 622-625	1.4	
1	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	