

Fei Pan

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

686
citations

687363

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677142

22
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all docs

22
docs citations

22
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Pixel Mechanical Metamaterials. <i>Advanced Materials</i> , 2019, 31, e1900548.	21.0	145
2	Stiffness threshold of randomly distributed carbon nanotube networks. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 84, 395-423.	4.8	75
3	Advances in mechanics of hierarchical composite materials. <i>Composites Science and Technology</i> , 2021, 214, 108970.	7.8	72
4	Bending induced interlayer shearing, rippling and kink buckling of multilayered graphene sheets. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 122, 340-363.	4.8	54
5	Theoretical estimation on the percolation threshold for polymer matrix composites with hybrid fillers. <i>Composite Structures</i> , 2015, 124, 292-299.	5.8	45
6	Bamboo-like Nanotubes with Tunable Helicity and Circularly Polarized Luminescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16615-16621.	13.8	37
7	A Numerical Study on Electrical Percolation of Polymer-Matrix Composites with Hybrid Fillers of Carbon Nanotubes and Carbon Black. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	2.7	34
8	Macroscopic helical chirality and self-motion of hierarchical self-assemblies induced by enantiomeric small molecules. <i>Nature Communications</i> , 2018, 9, 3808.	12.8	34
9	Tensegrity metamaterials for soft robotics. <i>Science Robotics</i> , 2020, 5, .	17.6	34
10	Soft Origami Gripper with Variable Effective Length. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000251.	6.1	27
11	Buckling Behavior of Substrate Supported Graphene Sheets. <i>Materials</i> , 2016, 9, 32.	2.9	22
12	Stiffness thresholds of buckypapers under arbitrary loads. <i>Mechanics of Materials</i> , 2016, 96, 151-168.	3.2	20
13	A Staircase Building Strategy for Tailoring Mechanical Behavior of Reconfigurable Customizable Metamaterials. <i>Advanced Functional Materials</i> , 2021, 31, 2101808.	14.9	20
14	Bamboo-like Nanotubes with Tunable Helicity and Circularly Polarized Luminescence. <i>Angewandte Chemie</i> , 2021, 133, 16751-16757.	2.0	15
15	Multistable shape-reconfigurable metawire in 3D space. <i>Extreme Mechanics Letters</i> , 2022, 50, 101535.	4.1	13
16	Out-of-plane bending of carbon nanotube films. <i>International Journal of Solids and Structures</i> , 2017, 106-107, 183-199.	2.7	10
17	In-plane and out-of-plane stiffness of 2D random fiber networks: Micromechanics and non-classical stiffness relation. <i>Extreme Mechanics Letters</i> , 2020, 36, 100658.	4.1	8
18	A mode-independent energy method in morphology prediction of graphene on substrates with nanoscale asperities. <i>International Journal of Mechanical Sciences</i> , 2018, 146-147, 355-365.	6.7	7

#	ARTICLE	IF	CITATIONS
19	A mode-independent energy-based buckling analysis method and its application on substrate-supported graphene. <i>International Journal of Solids and Structures</i> , 2017, 124, 73-88.	2.7	5
20	A biomimetic fish finlet with a liquid metal soft sensor for proprioception and underwater sensing. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 065007.	2.9	5
21	A Stair-Building Strategy for Tailoring Mechanical Behavior of Reconfigurable Customizable Metamaterials (Adv.) <i>Tj ETQq1</i> 1,0,784314,rgBT /O	14.9	2
22	Revisiting the stiffness of lattice plates with micromechanics modeling. <i>Composite Structures</i> , 2022, 286, 115276.	5.8	2