

Yongmao Pei

List of Publications by Year in descending order

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62
papers

2,035
citations

236925

25
h-index

243625

44
g-index

62
all docs

62
docs citations

62
times ranked

2150
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin and flexible multi-walled carbon nanotube/waterborne polyurethane composites with high-performance electromagnetic interference shielding. <i>Carbon</i> , 2016, 96, 768-777.	10.3	301
2	Ultralight and Highly Elastic Graphene/Lignin-Derived Carbon Nanocomposite Aerogels with Ultrahigh Electromagnetic Interference Shielding Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8205-8213.	8.0	160
3	Ultralight and Flexible Polyurethane/Silver Nanowire Nanocomposites with Unidirectional Pores for Highly Effective Electromagnetic Shielding. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32211-32219.	8.0	158
4	Robust and Stable Cu Nanowire@Graphene Core-Shell Aerogels for Ultraeffective Electromagnetic Interference Shielding. <i>Small</i> , 2018, 14, e1800634.	10.0	125
5	A cellular metastructure incorporating coupled negative thermal expansion and negative Poisson's ratio. <i>International Journal of Solids and Structures</i> , 2018, 150, 255-267.	2.7	119
6	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. <i>Nanoscale</i> , 2019, 11, 22804-22812.	5.6	106
7	Active acoustic metamaterials with tunable effective mass density by gradient magnetic fields. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	88
8	Mechanically robust ANF/MXene composite films with tunable electromagnetic interference shielding performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105927.	7.6	85
9	Tailorable Thermal Expansion of Lightweight and Robust Dual-Constituent Triangular Lattice Material. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	51
10	Heat transfer mechanism of the C/SiC ceramics pyramidal lattice composites. <i>Composites Part B: Engineering</i> , 2014, 63, 8-14.	12.0	47
11	Magnetic-control multifunctional acoustic metasurface for reflected wave manipulation at deep subwavelength scale. <i>Scientific Reports</i> , 2017, 7, 9050.	3.3	46
12	Tensile properties of two-dimensional carbon fiber reinforced silicon carbide composites at temperatures up to 2300°C. <i>Journal of the European Ceramic Society</i> , 2020, 40, 630-635.	5.7	44
13	High temperature fracture toughness and residual stress in thermal barrier coatings evaluated by an in-situ indentation method. <i>Ceramics International</i> , 2018, 44, 7926-7929.	4.8	41
14	Residual stress analysis in the oxide scale/metal substrate system due to oxidation growth strain and creep deformation. <i>Acta Mechanica</i> , 2012, 223, 2597-2607.	2.1	36
15	Strain Rate Effect on Mechanical Behavior of Metallic Honeycombs Under Out-of-Plane Dynamic Compression. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	2.2	35
16	Implementation of acoustic demultiplexing with membrane-type metasurface in low frequency range. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	34
17	Improved Green Strength and Green Machinability of ZrB ₂ -SiC Through Gelcasting Based on a Double Gel Network. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2401-2404.	3.8	29
18	Out-of-plane dynamic crushing behavior of joint-based hierarchical honeycombs. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 2832-2855.	3.5	29

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19	Design and analysis of lattice cylindrical shells with tailorable axial and radial thermal expansion. <i>Extreme Mechanics Letters</i> , 2018, 20, 51-58.	4.1	28
20	Tensile properties of two-dimensional carbon fiber reinforced silicon carbide composites at temperatures up to 1800 Å \langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e106" altimg="si3.svg"><mml:mo>Å</mml:mo></mml:math>C in air. <i>Extreme Mechanics Letters</i> , 2019, 31, 100546.	4.1	28
21	Flexoelectricity induced increase of critical thickness in epitaxial ferroelectric thin films. <i>Physica B: Condensed Matter</i> , 2012, 407, 3377-3381.	2.7	27
22	Electric-field-tunable mechanical properties of relaxor ferroelectric single crystal measured by nanoindentation. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	27
23	Rapid heating thermal shock behavior study of CVD ZnS infrared window material: Numerical and experimental study. <i>Journal of Alloys and Compounds</i> , 2016, 682, 565-570.	5.5	27
24	High temperature indentation tests of YSZ coatings in air up to 1200 Å °C . <i>Materials Letters</i> , 2017, 209, 5-7.	2.6	27
25	Dual-Band A-Sandwich Radome Design for Airborne Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 218-221.	4.0	26
26	Magnetically controlled multifunctional membrane acoustic metasurface. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	22
27	An ultra-high temperature testing instrument under oxidation environment up to 1800 Å °C . <i>Review of Scientific Instruments</i> , 2016, 87, 045108.	1.3	21
28	Design, fabrication, and characterization of lightweight and broadband microwave absorbing structure reinforced by two dimensional composite lattice. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 75-80.	2.3	19
29	Experimental and theoretical studies on inter-fiber failure of unidirectional polymer-matrix composites under different strain rates. <i>International Journal of Solids and Structures</i> , 2017, 113-114, 37-46.	2.7	19
30	Robotic Trajectories and Morphology Manipulation of Single Particle and Granular Materials by a Vibration Tweezer. <i>Soft Robotics</i> , 2021, 8, 1-9.	8.0	15
31	Magnetic Field Tunable Small-scale Mechanical Properties of Nickel Single Crystals Measured by Nanoindentation Technique. <i>Scientific Reports</i> , 2014, 4, 4583.	3.3	14
32	Oxidized multiwall carbon nanotube/silicone foam composites with effective electromagnetic interference shielding and high gamma radiation stability. <i>RSC Advances</i> , 2018, 8, 24236-24242.	3.6	13
33	Reconfigurable Particle Swarm Robotics Powered by Acoustic Vibration Tweezer. <i>Soft Robotics</i> , 2021, 8, 735-743.	8.0	13
34	Comparison of balanced direct search and iterative angular spectrum approaches for designing acoustic holography structure. <i>Applied Acoustics</i> , 2021, 175, 107848.	3.3	13
35	Experimental Study on Magneto-thermo-mechanical Behaviors of Terfenol-D. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 652-657.	0.5	12
36	Study on aluminum honeycomb sandwich panels with random skin/core weld defects. <i>Journal of Sandwich Structures and Materials</i> , 2013, 15, 704-717.	3.5	12

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37	A finite element based real-space phase field model for domain evolution of ferromagnetic materials. <i>Computational Materials Science</i> , 2016, 118, 214-223.	3.0	12
38	Near-field microwave identification and quantitative evaluation of liquid ingress in honeycomb sandwich structures. <i>NDT and E International</i> , 2016, 83, 32-37.	3.7	11
39	The effects of interface misfit strain and surface tension on magnetoelectric effects in layered magnetostrictive-piezoelectric composites. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	10
40	Novel instrument for characterizing comprehensive physical properties under multi-mechanical loads and multi-physical field coupling conditions. <i>Review of Scientific Instruments</i> , 2018, 89, 025112.	1.3	10
41	Magnetic and electric bulge-test instrument for the determination of coupling mechanical properties of functional free-standing films and flexible electronics. <i>Review of Scientific Instruments</i> , 2014, 85, 065117.	1.3	9
42	In situ high temperature microwave microscope for nondestructive detection of surface and sub-surface defects. <i>Optics Express</i> , 2018, 26, 9595.	3.4	8
43	An elevated-temperature depth-sensing instrumented indentation apparatus for investigating thermo-mechanical behaviour of thermal barrier coatings. <i>Review of Scientific Instruments</i> , 2017, 88, 045102.	1.3	7
44	Temporal acoustic wave computational metamaterials. <i>Applied Physics Letters</i> , 2020, 117, 131902.	3.3	7
45	Method for Design of Dual-Band Flat Radome Wall Structure. <i>AIAA Journal</i> , 2013, 51, 2819-2822.	2.6	6
46	Acoustic computational metamaterials for dispersion Fourier transform in time domain. <i>Journal of Applied Physics</i> , 2020, 127, 123101.	2.5	6
47	Implementing fractional Fourier transform and solving partial differential equations using acoustic computational metamaterials in space domain. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1371-1377.	3.4	6
48	Topological acoustic tweezer and pseudo-spin states of acoustic topological insulators. <i>Applied Physics Letters</i> , 2022, 120, 222202.	3.3	6
49	Wrinkles of magnetoelectric composite thin films bonded on compliant buffer-layers. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	5
50	Particles separation using the inverse Chladni pattern enhanced local Brazil nut effect. <i>Extreme Mechanics Letters</i> , 2021, 49, 101466.	4.1	5
51	A magnetoelastic model of nonlinear behaviors of Tb-Dy-Fe alloys based on domain rotation. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2010, 33, 883-889.	0.6	4
52	A multi-field domain rotation model for giant magnetostrictive materials. <i>Acta Mechanica</i> , 2013, 224, 1323-1328.	2.1	4
53	Structured Interfaces for Improving the Tensile Strength and Toughness of Stiff/Highly Stretchable Polymer Hybrids. <i>Advanced Materials Technologies</i> , 2020, 5, 2000652.	5.8	4
54	Temporal differential elastic wave computational metamaterials. <i>Journal of Applied Physics</i> , 2020, 127, 203104.	2.5	4

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55	Computational method for microwave absorbing structures with 2-D Kagome lattice grids. International Journal of Applied Electromagnetics and Mechanics, 2010, 33, 1691-1694.	0.6	3
56	Design method and machine learning application of acoustic holographic computational metamaterials. Science China Technological Sciences, 2022, 65, 238.	4.0	3
57	Dual-band and thermo-mechanical design method for radome walls with graded porous structure. Journal of Electromagnetic Waves and Applications, 2016, 30, 1391-1406.	1.6	2
58	Super resolution in depth for microwave imaging. Applied Physics Letters, 2019, 115, .	3.3	2
59	Phase-field simulation of magnetic double-hole nanoring and its application in random storage. International Journal of Smart and Nano Materials, 2021, 12, 157-184.	4.2	1
60	Implementing fractional Fourier transform using SH0 wave computational metamaterials in space domain. Science China Technological Sciences, 2021, 64, 2560-2565.	4.0	1
61	In-place rotation of particles and time-average vibrational vortex on a Chladni plate. Extreme Mechanics Letters, 2021, 49, 101493.	4.1	1
62	The Effect of Compression on the Void Coalescence under Strong Dynamic Loading. Advances in Materials Science and Engineering, 2022, 2022, 1-11.	1.8	1