

# Daining Fang

## List of Publications by Year in descending order

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681  
papers

23,697  
citations

8755

75  
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26613

107  
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687  
all docs

687  
docs citations

687  
times ranked

14253  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Aluminum-Ion Battery with CuS@C Microsphere Composite Cathode. ACS Nano, 2017, 11, 469-477.	14.6	388
2	Mechanical and thermal transport properties of graphene with defects. Applied Physics Letters, 2011, 99, .	3.3	321
3	Grayscale digital light processing 3D printing for highly functionally graded materials. Science Advances, 2019, 5, eaav5790.	10.3	298
4	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. Nature Materials, 2018, 17, 268-276.	27.5	297
5	Preparation and characterization of 3D printed continuous carbon fiber reinforced thermosetting composites. Polymer Testing, 2018, 65, 29-34.	4.8	224
6	Evaluation of compressive properties of SLM-fabricated multi-layer lattice structures by experimental test and 1/4-CT-based finite element analysis. Materials and Design, 2019, 169, 107685.	7.0	203
7	High solid loading, low viscosity photosensitive Al <sub>2</sub> O <sub>3</sub> slurry for stereolithography based additive manufacturing. Ceramics International, 2019, 45, 203-208.	4.8	203
8	Thermoelastic damping in micro-beam resonators. International Journal of Solids and Structures, 2006, 43, 3213-3229.	2.7	198
9	Planar lattices with tailorable coefficient of thermal expansion and high stiffness based on dual-material triangle unit. Journal of the Mechanics and Physics of Solids, 2016, 86, 173-191.	4.8	196
10	Origami by frontal photopolymerization. Science Advances, 2017, 3, e1602326.	10.3	193
11	Mechanical properties of an improved 3D-printed rhombic dodecahedron stainless steel lattice structure of variable cross section. International Journal of Mechanical Sciences, 2018, 145, 53-63.	6.7	187
12	Ballistic impact experiments of metallic sandwich panels with aluminium foam core. International Journal of Impact Engineering, 2010, 37, 1045-1055.	5.0	182
13	Nonlinear electric-mechanical behavior and micromechanics modelling of ferroelectric domain evolution. Acta Materialia, 1999, 47, 2913-2926.	7.9	160
14	Mechanical properties of hierarchical cellular materials. Part I: Analysis. Composites Science and Technology, 2008, 68, 3380-3387.	7.8	160
15	Soft mechanical metamaterials with unusual swelling behavior and tunable stress-strain curves. Science Advances, 2018, 4, eaar8535.	10.3	159
16	High-Speed 3D Printing of High-Performance Thermosetting Polymers via Two-Stage Curing. Macromolecular Rapid Communications, 2018, 39, e1700809.	3.9	146
17	Study of fatigue crack characteristics by acoustic emission. Engineering Fracture Mechanics, 1995, 51, 401-416.	4.3	144
18	Mechanical properties of anti-tetrachiral auxetic stents. Composite Structures, 2018, 185, 381-392.	5.8	141

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19	Non-linear constitutive relations for magnetostrictive materials. <i>International Journal of Non-Linear Mechanics</i> , 2003, 38, 1053-1065.	2.6	136
20	Graphene-Based Sandwich Structures for Frequency Selectable Electromagnetic Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36119-36129.	8.0	135
21	Manufacturing and testing of a CFRC sandwich cylinder with Kagome cores. <i>Composites Science and Technology</i> , 2009, 69, 2695-2700.	7.8	132
22	Progress and challenges towards additive manufacturing of SiC ceramic. <i>Journal of Advanced Ceramics</i> , 2021, 10, 637-674.	17.4	132
23	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9455-E9464.	7.1	129
24	Crushing behavior of multi-layer metal lattice panel fabricated by selective laser melting. <i>International Journal of Mechanical Sciences</i> , 2018, 145, 389-399.	6.7	129
25	Dispersion and stability of SiC ceramic slurry for stereolithography. <i>Ceramics International</i> , 2020, 46, 4720-4729.	4.8	129
26	Multi-scale design of electromagnetic composite metamaterials for broadband microwave absorption. <i>Composites Science and Technology</i> , 2018, 162, 206-214.	7.8	128
27	Compression behavior of the graded metallic auxetic reentrant honeycomb: Experiment and finite element analysis. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 758, 163-171.	5.6	126
28	Temperature Rise Associated with Adiabatic Shear Band: Causality Clarified. <i>Physical Review Letters</i> , 2019, 122, 015503.	7.8	125
29	Electro-Chemo-Mechanical Issues at the Interfaces in Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900950.	14.9	124
30	The temperature-dependent fracture strength model for ultra-high temperature ceramics. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 235-239.	3.4	122
31	Fabrication of SiC ceramic architectures using stereolithography combined with precursor infiltration and pyrolysis. <i>Ceramics International</i> , 2019, 45, 14006-14014.	4.8	120
32	Axial crushing behaviors of multi-cell tubes with triangular lattices. <i>International Journal of Impact Engineering</i> , 2014, 63, 106-117.	5.0	119
33	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
34	Processing and Mechanical Properties of Zirconium Diboride-Based Ceramics Prepared by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1992-1997.	3.8	118
35	Stereolithography-based additive manufacturing of gray-colored SiC ceramic green body. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7198-7209.	3.8	117
36	Desolvation Induced Origami of Photocurable Polymers by Digit Light Processing. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600625.	3.9	116

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37	Size-dependent ferroelectric behaviors of BaTiO <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	111
38	Laser-induced vibrations of micro-beams under different boundary conditions. <i>International Journal of Solids and Structures</i> , 2008, 45, 1993-2013.	2.7	109
39	Photosensitive ZrO <sub>2</sub> suspensions for stereolithography. <i>Ceramics International</i> , 2019, 45, 12189-12195.	4.8	107
40	Dynamic crushing behavior and energy absorption of graded lattice cylindrical structure under axial impact load. <i>Thin-Walled Structures</i> , 2018, 127, 333-343.	5.3	106
41	A multiscale elasto-plastic damage model for the nonlinear behavior of 3D braided composites. <i>Composites Science and Technology</i> , 2019, 171, 21-33.	7.8	105
42	4D printed origami metamaterials with tunable compression twist behavior and stress-strain curves. <i>Composites Part B: Engineering</i> , 2020, 201, 108344.	12.0	105
43	Diffusion-Induced Stresses of Spherical Core-Shell Electrodes in Lithium-Ion Batteries: The Effects of the Shell and Surface/Interface Stress. <i>Journal of the Electrochemical Society</i> , 2013, 160, A595-A600.	2.9	104
44	A novel carbon fiber reinforced lattice truss sandwich cylinder: Fabrication and experiments. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 81, 313-322.	7.6	101
45	Hydrophilic/Hydrophobic Composite Shape-Shifting Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19932-19939.	8.0	101
46	Crushing mechanism of hierarchical lattice structure. <i>Mechanics of Materials</i> , 2016, 97, 164-183.	3.2	100
47	The structure response of sandwich beams with metallic auxetic honeycomb cores under localized impulsive loading-experiments and finite element analysis. <i>Materials and Design</i> , 2019, 176, 107840.	7.0	100
48	Compression and bending performances of carbon fiber reinforced lattice-core sandwich composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 52, 118-125.	7.6	98
49	Polymer-derived silicon nitride ceramics by digital light processing based additive manufacturing. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5117-5126.	3.8	98
50	Micromechanics simulation of ferroelectric polarization switching. <i>Acta Materialia</i> , 1997, 45, 3181-3189.	7.9	97
51	A Novel Ultrafast Rechargeable Multi-Ions Battery. <i>Advanced Materials</i> , 2017, 29, 1606349.	21.0	97
52	Dynamic compressive behavior of a modified additively manufactured rhombic dodecahedron 316L stainless steel lattice structure. <i>Thin-Walled Structures</i> , 2020, 148, 106586.	5.3	96
53	Compression twist deformation of novel tetrachiral architected cylindrical tube inspired by towel gourd tendrils. <i>Extreme Mechanics Letters</i> , 2018, 20, 104-111.	4.1	95
54	A predictive micropolar continuum model for a novel three-dimensional chiral lattice with size effect and tension-twist coupling behavior. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 121, 23-46.	4.8	95

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55	Mechanics of shape distortion of DLP 3D printed structures during UV post-curing. <i>Soft Matter</i> , 2019, 15, 6151-6159.	2.7	94
56	Love waves in layered piezoelectric/piezomagnetic structures. <i>Journal of Sound and Vibration</i> , 2008, 315, 146-156.	3.9	92
57	Nonlinear electric-mechanical behavior of a soft PZT-51 ferroelectric ceramic. <i>Journal of Materials Science</i> , 1999, 34, 4001-4010.	3.7	90
58	Equivalent analysis and failure prediction of quasi-isotropic composite sandwich cylinder with lattice core under uniaxial compression. <i>Composite Structures</i> , 2013, 101, 180-190.	5.8	90
59	A coupled elastic-plastic damage model for the mechanical behavior of three-dimensional (3D) braided composites. <i>Composites Science and Technology</i> , 2018, 157, 86-98.	7.8	90
60	Mechanical properties and energy absorption of 3D printed square hierarchical honeycombs under in-plane axial compression. <i>Composites Part B: Engineering</i> , 2019, 176, 107219.	12.0	88
61	Free vibration behaviors of carbon fiber reinforced lattice-core sandwich cylinder. <i>Composites Science and Technology</i> , 2014, 100, 26-33.	7.8	87
62	Mechanical properties and energy absorption capability of AuxHex structure under in-plane compression: Theoretical and experimental studies. <i>International Journal of Mechanical Sciences</i> , 2019, 159, 43-57.	6.7	87
63	Mechanical properties of hierarchical anti-tetrachiral metastructures. <i>Extreme Mechanics Letters</i> , 2017, 16, 18-32.	4.1	86
64	Ultrathin Flexible Carbon Fiber Reinforced Hierarchical Metastructure for Broadband Microwave Absorption with Nano Lossy Composite and Multiscale Optimization. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44731-44740.	8.0	86
65	Effects of fine grains and sintering additives on stereolithography additive manufactured Al <sub>2</sub> O <sub>3</sub> ceramic. <i>Ceramics International</i> , 2021, 47, 2303-2310.	4.8	85
66	Constructing Repairable Meta-Structures of Ultra-Broad-Band Electromagnetic Absorption from Three-Dimensional Printed Patterned Shells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43179-43187.	8.0	84
67	Strain effect on ferroelectric behaviors of BaTiO <sub>3</sub> nanowires: a molecular dynamics study. <i>Nanotechnology</i> , 2010, 21, 015701.	2.6	83
68	Enhanced out-of-plane crushing strength and energy absorption of in-plane graded honeycombs. <i>Composites Part B: Engineering</i> , 2017, 118, 33-40.	12.0	83
69	4D printed multi-stable metamaterials with mechanically tunable performance. <i>Composite Structures</i> , 2020, 252, 112663.	5.8	83
70	Compression experiment and numerical evaluation on mechanical responses of the lattice structures with stochastic geometric defects originated from additive-manufacturing. <i>Composites Part B: Engineering</i> , 2020, 194, 108030.	12.0	83
71	Digital light processing of 3Y-TZP strengthened ZrO <sub>2</sub> ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138768.	5.6	82
72	Ultra-Lightweight 3D Carbon Current Collectors: Constructing All-Carbon Electrodes for Stable and High Energy Density Dual-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801439.	19.5	80

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73	Mechanics of advanced fiber reinforced lattice composites. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 825-835.	3.4	79
74	Fabrication and testing of composite orthogrid sandwich cylinder. <i>Composites Science and Technology</i> , 2017, 142, 171-179.	7.8	79
75	Radar stealth and mechanical properties of a broadband radar absorbing structure. <i>Composites Part B: Engineering</i> , 2017, 123, 19-27.	12.0	79
76	Macroscopic mechanical response of chiral-type cylindrical metastructures under axial compression loading. <i>Materials and Design</i> , 2018, 158, 198-212.	7.0	79
77	Dynamic response of metallic lattice sandwich structures to impulsive loading. <i>International Journal of Impact Engineering</i> , 2012, 43, 1-5.	5.0	76
78	A novel sub-step composite implicit time integration scheme for structural dynamics. <i>Computers and Structures</i> , 2017, 182, 176-186.	4.4	76
79	Recent Progress in Active Mechanical Metamaterials and Construction Principles. <i>Advanced Science</i> , 2022, 9, e2102662.	11.2	75
80	Boussinesq problem with the surface effect and its application to contact mechanics at the nanoscale. <i>International Journal of Solids and Structures</i> , 2013, 50, 2620-2630.	2.7	73
81	Reversible shape change structures by grayscale pattern 4D printing. <i>Multifunctional Materials</i> , 2018, 1, 015002.	3.7	73
82	Diffusion-induced stresses of electrode nanomaterials in lithium-ion battery: The effects of surface stress. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	72
83	Improved manufacturing method and mechanical performances of carbon fiber reinforced lattice-core sandwich cylinder. <i>Thin-Walled Structures</i> , 2013, 68, 75-84.	5.3	72
84	An experimental and numerical investigation of compressive response of designed Schwarz Primitive triply periodic minimal surface with non-uniform shell thickness. <i>Extreme Mechanics Letters</i> , 2020, 37, 100671.	4.1	72
85	Fatigue Crack Growth in Ferroelectric Ceramics Driven by Alternating Electric Fields. <i>Journal of the American Ceramic Society</i> , 2004, 87, 840-846.	3.8	70
86	Theoretical prediction of temperature dependent yield strength for metallic materials. <i>International Journal of Mechanical Sciences</i> , 2016, 105, 273-278.	6.7	70
87	Out-of-plane compressive performance and energy absorption of multi-layer graded sinusoidal corrugated sandwich panels. <i>Materials and Design</i> , 2019, 178, 107858.	7.0	70
88	Numerical and experimental studies on compressive behavior of Gyroid lattice cylindrical shells. <i>Materials and Design</i> , 2020, 186, 108340.	7.0	70
89	Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. <i>ACS Nano</i> , 2020, 14, 3469-3476.	14.6	70
90	Experimental and simulation investigation of the reversible bi-directional twisting response of tetra-chiral cylindrical shells. <i>Composite Structures</i> , 2018, 203, 142-152.	5.8	69

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91	Mechanical Properties of two novel planar lattice structures. <i>International Journal of Solids and Structures</i> , 2008, 45, 3751-3768.	2.7	68
92	Uniaxial local buckling strength of periodic lattice composites. <i>Materials &amp; Design</i> , 2009, 30, 4136-4145.	5.1	68
93	Super tough magnetic hydrogels for remotely triggered shape morphing. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2713-2722.	5.8	68
94	Enhanced out-of-plane compressive strength and energy absorption of 3D printed square and hexagonal honeycombs with variable-thickness cell edges. <i>Extreme Mechanics Letters</i> , 2018, 18, 9-18.	4.1	68
95	Experimentally program large magnitude of Poisson's ratio in additively manufactured mechanical metamaterials. <i>International Journal of Mechanical Sciences</i> , 2020, 173, 105466.	6.7	68
96	A lightweight, high compression strength ultra high temperature ceramic corrugated panel with potential for thermal protection system applications. <i>Materials &amp; Design</i> , 2015, 66, 552-556.	5.1	67
97	Additively-manufactured anisotropic and isotropic 3D plate-lattice materials for enhanced mechanical performance: Simulations & experiments. <i>Acta Materialia</i> , 2020, 199, 397-412.	7.9	67
98	Simulations of domain switching in ferroelectrics by a three-dimensional finite element model. <i>Mechanics of Materials</i> , 2004, 36, 959-973.	3.2	66
99	Deformation and failure mechanisms of lattice cylindrical shells under axial loading. <i>International Journal of Mechanical Sciences</i> , 2009, 51, 213-221.	6.7	66
100	Fabrication and heat transfer characteristics of C/SiC pyramidal core lattice sandwich panel. <i>Applied Thermal Engineering</i> , 2015, 81, 10-17.	6.0	66
101	A hierarchical multiscale model for the elastic-plastic damage behavior of 3D braided composites at high temperature. <i>Composites Science and Technology</i> , 2020, 196, 108230.	7.8	66
102	Preparation and characterization of high-toughness ZrB <sub>2</sub> /Mo composites by hot-pressing process. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009, 27, 1024-1026.	3.8	65
103	Recent progress in the design and fabrication of multifunctional structures based on metamaterials. <i>Current Opinion in Solid State and Materials Science</i> , 2021, 25, 100883.	11.5	65
104	Effect of temperature on bending properties and failure mechanism of three-dimensional braided composite. <i>Materials &amp; Design</i> , 2012, 41, 167-170.	5.1	64
105	3D-printed highly deformable electrodes for flexible lithium ion batteries. <i>Energy Storage Materials</i> , 2020, 33, 55-61.	18.0	64
106	A new temperature dependent fracture strength model for the ZrB <sub>2</sub> -SiC composites. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2957-2962.	5.7	62
107	Thermal protection system integrating graded insulation materials and multilayer ceramic matrix composite cellular sandwich panels. <i>Composite Structures</i> , 2019, 209, 523-534.	5.8	62
108	Ultrathin multifunctional carbon/glass fiber reinforced lossy lattice metastructure for integrated design of broadband microwave absorption and effective load bearing. <i>Carbon</i> , 2019, 144, 449-456.	10.3	62



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109	A universal permittivity-attenuation evaluation diagram for accelerating design of dielectric-based microwave absorption materials: A case of graphene-based composites. <i>Carbon</i> , 2017, 118, 86-97.	10.3	61
110	Drastic tailorable thermal expansion chiral planar and cylindrical shell structures explored with finite element simulation. <i>Composite Structures</i> , 2019, 210, 327-338.	5.8	61
111	Fabrication and mechanical properties of lightweight ZrO <sub>2</sub> ceramic corrugated core sandwich panels. <i>Materials &amp; Design</i> , 2014, 64, 91-95.	5.1	60
112	Damage characterizations and simulation of selective laser melting fabricated 3D re-entrant lattices based on in-situ CT testing and geometric reconstruction. <i>International Journal of Mechanical Sciences</i> , 2019, 157-158, 231-242.	6.7	60
113	Hierarchical mechanical metamaterials built with scalable tristable elements for ternary logic operation and amplitude modulation. <i>Science Advances</i> , 2021, 7, .	10.3	60
114	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration. <i>Advanced Materials</i> , 2021, 33, e2106175.	21.0	60
115	Reflection and refraction of plane waves at the interface between piezoelectric and piezomagnetic media. <i>International Journal of Engineering Science</i> , 2008, 46, 1098-1110.	5.0	59
116	Mechanical properties of Invar 36 alloy additively manufactured by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138799.	5.6	59
117	3D printing of complex origami assemblages for reconfigurable structures. <i>Soft Matter</i> , 2018, 14, 8051-8059.	2.7	58
118	Novel multifunctional negative stiffness mechanical metamaterial structure: Tailored functions of multi-stable and compressive mono-stable. <i>Composites Part B: Engineering</i> , 2021, 204, 108501.	12.0	58
119	Design and analysis of integrated thermal protection system based on lightweight C/SiC pyramidal lattice core sandwich panel. <i>Materials and Design</i> , 2016, 111, 435-444.	7.0	57
120	A novel design method for 3D positive and negative Poisson's ratio material based on tension-twist coupling effects. <i>Composite Structures</i> , 2020, 236, 111899.	5.8	57
121	Ionic Conductive Gels for Optically Manipulatable Microwave Stealth Structures. <i>Advanced Science</i> , 2020, 7, 1902162.	11.2	57
122	Submillimeter-scale multimaterial terrestrial robots. <i>Science Robotics</i> , 2022, 7, .	17.6	57
123	Finite Element Analysis of Mechanical Properties of 3D Four-Directional Rectangular Braided Composites Part I: Microgeometry and 3D Finite Element Model. <i>Applied Composite Materials</i> , 2010, 17, 373-387.	2.5	56
124	Influence of manufacturing geometric defects on the mechanical properties of AlSi10Mg alloy fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019, 789, 852-859.	5.5	56
125	Insight into the negative Poisson's ratio effect of metallic auxetic reentrant honeycomb under dynamic compression. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 763, 138151.	5.6	55
126	Evolutionary optimization design of honeycomb metastructure with effective mechanical resistance and broadband microwave absorption. <i>Carbon</i> , 2021, 177, 79-89.	10.3	55



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127	Microstructure, mechanical and dielectric properties of highly porous silicon nitride ceramics produced by a new water-based freeze casting. <i>Ceramics International</i> , 2012, 38, 4373-4377.	4.8	54
128	Fabrication and testing of composite hierarchical Isogrid stiffened cylinder. <i>Composites Science and Technology</i> , 2018, 157, 152-159.	7.8	54
129	Gel electrolytes with a wide potential window for high-rate Al-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20348-20356.	10.3	54
130	Modeling the effect of temperature on the yield strength of precipitation strengthening Ni-base superalloys. <i>International Journal of Plasticity</i> , 2019, 116, 143-158.	8.8	54
131	A novel embedded method for in-situ measuring internal multi-point temperatures of lithium ion batteries. <i>Journal of Power Sources</i> , 2020, 456, 227981.	7.8	54
132	Interactions between domain switching and crack propagation in poled BaTiO <sub>3</sub> single crystal under mechanical loading. <i>Acta Materialia</i> , 2007, 55, 5758-5767.	7.9	53
133	A curvature-dependent interfacial energy-based interface stress theory and its applications to nano-structured materials: (I) General theory. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 66, 59-77.	4.8	53
134	Weather-Manipulated Smart Broadband Electromagnetic Metamaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40815-40823.	8.0	53
135	Reducing diffusion-induced stresses of electrode collector bilayer in lithium-ion battery by pre-strain. <i>Journal of Power Sources</i> , 2013, 242, 415-420.	7.8	52
136	Porous carbon-bonded carbon fiber composites impregnated with SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> aerogel with enhanced thermal insulation and mechanical properties. <i>Ceramics International</i> , 2018, 44, 3484-3487.	4.8	52
137	Flexible thin broadband microwave absorber based on a pyramidal periodic structure of lossy composite. <i>Optics Letters</i> , 2018, 43, 2764.	3.3	52
138	Mechanical properties and internal microdefects evolution of carbon fiber reinforced polymer composites: Cryogenic temperature and thermocycling effects. <i>Composites Science and Technology</i> , 2020, 191, 108083.	7.8	52
139	Dynamic response of stiffened plate under internal blast: Experimental and numerical investigation. <i>Marine Structures</i> , 2021, 77, 102957.	3.8	52
140	Strain rate effect on the out-of-plane dynamic compressive behavior of metallic honeycombs: Experiment and theory. <i>Composite Structures</i> , 2015, 132, 644-651.	5.8	51
141	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
142	Mechanical responses of titanium 3D kagome lattice structure manufactured by selective laser melting. <i>Extreme Mechanics Letters</i> , 2018, 23, 41-48.	4.1	51
143	In-plane compression behavior of hybrid honeycomb metastructures: Theoretical and experimental studies. <i>Aerospace Science and Technology</i> , 2020, 106, 106081.	4.8	51
144	Fracture strength of the particulate-reinforced ultra-high temperature ceramics based on a temperature dependent fracture toughness model. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 107, 365-378.	4.8	50

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145	Customized Kirigami Electrodes for Flexible and Deformable Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 780-788.	8.0	50
146	Rapid Volatilization Induced Mechanically Robust Shape-Morphing Structures toward 4D Printing. ACS Applied Materials & Interfaces, 2020, 12, 17979-17987.	8.0	50
147	Active Reconfigurable Tristable Square-twist Origami. Advanced Functional Materials, 2020, 30, 1909087.	14.9	50
148	A unified model for piezocomposites with non-piezoelectric matrix and piezoelectric ellipsoidal inclusions. International Journal of Solids and Structures, 1999, 36, 2707-2733.	2.7	49
149	Theoretical prediction on the mechanical properties of 3D braided composites using a helix geometry model. Composite Structures, 2013, 100, 511-516.	5.8	49
150	Preparation and thermodynamic analysis of the porous ZrO <sub>2</sub> /(ZrO <sub>2</sub> +Ni) functionally graded bolted joint. Composites Part B: Engineering, 2015, 82, 13-22.	12.0	49
151	In Plane Mechanical Properties of Tetrachiral and Antitetrachiral Hybrid Metastructures. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	49
152	Wave propagation in piezoelectric/piezomagnetic layered periodic composites. Acta Mechanica Sinica, 2008, 21, 483-490.	1.9	48
153	A photoviscoplastic model for photoactivated covalent adaptive networks. Journal of the Mechanics and Physics of Solids, 2014, 70, 84-103.	4.8	48
154	Free-standing and flexible LiMnTiO <sub>4</sub> /carbon nanotube cathodes for high performance lithium ion batteries. Journal of Power Sources, 2016, 321, 120-125.	7.8	48
155	Architecture design of periodic truss-lattice cells for additive manufacturing. Additive Manufacturing, 2020, 34, 101172.	3.0	48
156	Heat transfer mechanism of the C/SiC ceramics pyramidal lattice composites. Composites Part B: Engineering, 2014, 63, 8-14.	12.0	47
157	Recent development of graphene materials applied in polymer solar cell. Renewable and Sustainable Energy Reviews, 2015, 43, 973-980.	16.4	47
158	Experimental and numerical investigation on the crushing behavior of sandwich composite under edgewise compression loading. Composites Part B: Engineering, 2016, 94, 34-44.	12.0	47
159	Optimal design of hierarchical grid-stiffened cylindrical shell structures based on linear buckling and nonlinear collapse analyses. Thin-Walled Structures, 2017, 119, 315-323.	5.3	47
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