

# Daining Fang

## List of Publications by Year in descending order

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681  
papers

23,697  
citations

8755

75  
h-index

26613

107  
g-index

687  
all docs

687  
docs citations

687  
times ranked

14253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Active Mechanical Metamaterials and Construction Principles. <i>Advanced Science</i> , 2022, 9, e21102662.	11.2	75
2	Bio-inspired 3D printing of self-growing multinetwork elastomer composites. <i>Composite Structures</i> , 2022, 279, 114777.	5.8	2
3	Multiscale viscoelastic behavior of 3D braided composites with pore defects. <i>Composites Science and Technology</i> , 2022, 217, 109114.	7.8	10
4	The effects of fiber radius and fiber shape deviations and of matrix void content on the strengths and failure mechanisms of UD composites by computational micromechanics. <i>Composites Science and Technology</i> , 2022, 218, 109139.	7.8	18
5	A physically based thermoelastoplastic constitutive model for braided CMCs/SiC at ultra-high temperature. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2196-2208.	3.8	4
6	Impact of Power Spectrum in Geometrical Coding on the Scattering of Random Electromagnetic Coding Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 3489-3494.	5.1	4
7	Effects of Void Defects on Fracture Features and Tensile Strength of C/SiC Composites: an Image-based FEM Study. <i>Applied Composite Materials</i> , 2022, 29, 1021-1039.	2.5	3
8	Reconfigurable force-displacement profiles of the square-twist origami. <i>International Journal of Solids and Structures</i> , 2022, 241, 111471.	2.7	7
9	Enhancing cryogenic mechanical properties of epoxy resins toughened by biscitraconimide resin. <i>Composites Science and Technology</i> , 2022, 220, 109252.	7.8	21
10	Crocodile skin inspired rigid-supple integrated flexible lithium ion batteries with high energy density and bidirectional deformability. <i>Energy Storage Materials</i> , 2022, 47, 149-157.	18.0	28
11	Parametric analyses on multiscale elastic behavior of 3D braided composites with pore defects. <i>Composite Structures</i> , 2022, 287, 115332.	5.8	14
12	Application of Generative Adversarial Network-Based Inversion Algorithm in Imaging 2-D Lossy Biaxial Anisotropic Scatterer. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 8262-8275.	5.1	9
13	Scalable, superelastic, and superhydrophobic MXene/silver nanowire/melamine hybrid sponges for high-performance electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5336-5344.	5.5	16
14	Mechanisms of crack healing in dense Yb-Si-O environmental barrier coatings by plasma spray-physical vapor deposition. <i>Ceramics International</i> , 2022, 48, 15975-15983.	4.8	12
15	Uneven deposition on the Al electrode under tension strain. <i>Journal of Energy Chemistry</i> , 2022, 71, 98-103.	12.9	3
16	A compact multifunctional metastructure for Low-frequency broadband sound absorption and crash energy dissipation. <i>Materials and Design</i> , 2022, 215, 110462.	7.0	36
17	A Novel Design of Multistable Metastructure With Nonuniform Cross Section. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	2.2	12
18	Asymmetric mechanical properties in ferroelectrics driven by flexo-deformation effect. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 164, 104891.	4.8	6

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19	A concurrent three-scale scheme FF-SCA $\langle \mathbf{m} \rangle$ for the nonlinear mechanical behavior of braided composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 164, 104893.	6.6	11
20	A two-scale thermo-mechanically coupled model for anomalous martensite transformation and elastocaloric switching effect of shape memory alloy. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 164, 104893.	4.8	10
21	An <i>in situ</i> micro-indentation apparatus for investigating mechanical parameters of thermal barrier coatings under temperature gradient. <i>Review of Scientific Instruments</i> , 2022, 93, 045102.	1.3	1
22	Initiation of surface wrinkling during photopolymerization. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 162, 104838.	4.8	13
23	Deep learning-based X-ray computed tomography image reconstruction and prediction of compression behavior of 3D printed lattice structures. <i>Additive Manufacturing</i> , 2022, 54, 102774.	3.0	6
24	A 4D x-ray computer microtomography for high-temperature electrochemistry. <i>Science Advances</i> , 2022, 8, eabm5678.	10.3	11
25	Multilaminate metastructure for high-temperature radar-infrared bi-stealth: Topological optimization and near-room-temperature synthesis. <i>Matter</i> , 2022, 5, 1937-1952.	10.0	26
26	A brief review on mechanical designs for 4D printing. , 2022, 01, .		1
27	A rate-dependent phase-field model for dynamic shear band formation in strength-like and toughness-like modes. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 164, 104914.	4.8	6
28	Three-dimensional assembled dual-material lattice with tailorable thermal expansion: Design method, modeling, and testing. <i>Composite Structures</i> , 2022, 293, 115724.	5.8	7
29	Flexible, high-strength and multifunctional polyvinyl alcohol/MXene/polyaniline hydrogel enhancing skin wound healing. <i>Biomaterials Science</i> , 2022, 10, 3585-3596.	5.4	23
30	Submillimeter-scale multimaterial terrestrial robots. <i>Science Robotics</i> , 2022, 7, .	17.6	57
31	Planar bi-metallic lattice with tailorable coefficient of thermal expansion. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	3.4	8
32	Clog-Free, Low-Cost, and Uniform Electrode Inks for 3D Printed Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 6970-6979.	5.1	11
33	Radar-stealth and load-bearing corrugated sandwich structures with superior environmental adaptability. <i>Composites Science and Technology</i> , 2022, 227, 109594.	7.8	17
34	Underwater gradient metalens for broadband subwavelength focusing. <i>International Journal of Mechanical Sciences</i> , 2022, 229, 107521.	6.7	8
35	Mechanical performance of bio-inspired hierarchical honeycomb metamaterials. <i>International Journal of Solids and Structures</i> , 2022, 254-255, 111866.	2.7	9
36	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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37	A multiscale study of structural and compositional changes in a natural nanocomposite: Osteoporotic bone with chronic endogenous steroid excess. <i>Bone</i> , 2021, 143, 115666.	2.9	7
38	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
39	Deformation and failure modes of aluminum foam-cored sandwich plates under air-blast loading. <i>Composite Structures</i> , 2021, 258, 113317.	5.8	18
40	Simultaneously program thermal expansion and Poisson's ratio in three dimensional mechanical metamaterial. <i>Composite Structures</i> , 2021, 262, 113365.	5.8	26
41	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
42	Stereolithography additive manufacturing of multi-ceramic triangle structures with tunable thermal expansion. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2796-2806.	5.7	34
43	Design and analysis for large magnitudes of programmable Poisson's ratio in a series of lightweight cylindrical metastructures. <i>International Journal of Mechanical Sciences</i> , 2021, 195, 106220.	6.7	30
44	Stereolithography additive manufacturing and sintering approaches of SiC ceramics. <i>Open Ceramics</i> , 2021, 5, 100046.	2.0	24
45	An improved sub-step time-marching procedure for linear and nonlinear dynamics with high-order accuracy and high-efficient energy conservation. <i>Applied Mathematical Modelling</i> , 2021, 90, 78-100.	4.2	17
46	Deformation behavior of heterogeneous multi-morphology lattice core hybrid structures. <i>Additive Manufacturing</i> , 2021, 37, 101674.	3.0	17
47	SMP-based multi-stable mechanical metamaterials: From bandgap tuning to wave logic gates. <i>Extreme Mechanics Letters</i> , 2021, 42, 101077.	4.1	44
48	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
49	Initial Electrode Kinetics of Anion Intercalation and Deintercalation in Nonaqueous Al-Graphite Batteries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 157-164.	4.9	8
50	A high-order accurate explicit time integration method based on cubic spline interpolation and weighted residual technique for structural dynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 431-454.	2.8	22
51	Numerical and theoretical analysis of the dynamic mechanical behaviour of a modified rhombic dodecahedron lattice structure. <i>International Journal of Mechanics and Materials in Design</i> , 2021, 17, 271-283.	3.0	15
52	Modified Luneburg Lens for Achromatic Subdiffraction Focusing and Directional Emission. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7930-7934.	5.1	8
53	Multifunctional carbon fiber reinforced multilayered metastructure with broadband microwave absorption and effective mechanical resistance. <i>Polymer Composites</i> , 2021, 42, 1846-1854.	4.6	8
54	Hierarchical mechanical metamaterials built with scalable tristable elements for ternary logic operation and amplitude modulation. <i>Science Advances</i> , 2021, 7, .	10.3	60

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55	Grain growth prediction in selective electron beam melting of Ti-6Al-4V with a cellular automaton method. <i>Materials and Design</i> , 2021, 199, 109410.	7.0	38
56	Ultrabroadband compact lens antenna with high performance based on a transmission gradient index medium. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 175101.	2.8	5
57	Multi-functional cylindrical metastructures to simultaneously program both thermal expansion and Poisson's ratio. <i>Extreme Mechanics Letters</i> , 2021, 43, 101177.	4.1	15
58	Two-scale damage failure analysis of 3D braided composites considering pore defects. <i>Composite Structures</i> , 2021, 260, 113556.	5.8	29
59	Conformally Mapped Mikaelian Lens for Broadband Achromatic High Resolution Focusing. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000564.	8.7	13
60	An <i>in situ</i> microtomography apparatus with a laboratory x-ray source for elevated temperatures of up to 1000 Å. <i>Review of Scientific Instruments</i> , 2021, 92, 033704.	1.3	10
61	Effect of Z-pin inclined angle on the impact damage suppression effectiveness for cross-ply composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 142, 106264.	7.6	16
62	Design of self-supporting lattices for additive manufacturing. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 148, 104298.	4.8	39
63	Shape-Memory Balloon Structures by Pneumatic Multi-material 4D Printing. <i>Advanced Functional Materials</i> , 2021, 31, 2010872.	14.9	30
64	Deformation mechanisms and mechanical performances of architected mechanical metamaterials with gyroid topologies: Synchrotron X-ray radiation in-situ compression experiments and 3D image based finite element analysis. <i>Extreme Mechanics Letters</i> , 2021, 44, 101229.	4.1	13
65	Morphology characterization and in-situ three-dimensional strain field monitor of short carbon fiber-reinforced polymer composites under tension. <i>Composite Structures</i> , 2021, 262, 113634.	5.8	18
66	Dynamic response of stiffened plate under internal blast: Experimental and numerical investigation. <i>Marine Structures</i> , 2021, 77, 102957.	3.8	52
67	A Modified Iosipescu Method to Study In-Plane Shear Strength of C/SiC Composites at Elevated Temperatures in Air. <i>Experimental Mechanics</i> , 2021, 61, 1323-1331.	2.0	5
68	Evolutionary optimization design of honeycomb metastructure with effective mechanical resistance and broadband microwave absorption. <i>Carbon</i> , 2021, 177, 79-89.	10.3	55
69	Invisible Electromagnetic Huygens' Metasurface Operational in Wide Frequency Band and Its Experimental Validation. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 3341-3348.	5.1	5
70	Water vapor volatilization and oxidation induced surface cracking of environmental barrier coating systems: A numerical approach. <i>Ceramics International</i> , 2021, 47, 16547-16554.	4.8	8
71	Internal field study of 21700 battery based on long-life embedded wireless temperature sensor. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 895-901.	3.4	19
72	Highly Efficient Gradient Solid Immersion Lens with Large Numerical Aperture for Broadband Achromatic Deep Subwavelength Focusing and Magnified Far Field. <i>Advanced Optical Materials</i> , 2021, 9, 2100509.	7.3	3

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73	A transient updated Lagrangian finite element formulation for bond formation in fused deposition modeling process. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 152, 104450.	4.8	5
74	Progress and challenges towards additive manufacturing of SiC ceramic. <i>Journal of Advanced Ceramics</i> , 2021, 10, 637-674.	17.4	132
75	Micro-CT based trans-scale damage analysis of 3D braided composites with pore defects. <i>Composites Science and Technology</i> , 2021, 211, 108830.	7.8	41
76	In-situ synchrotron X-ray tomography investigation of the imperfect smooth-shell cylinder structure. <i>Composite Structures</i> , 2021, 267, 113926.	5.8	39
77	Further insights of a composite implicit time integration scheme and its performance on linear seismic response analysis. <i>Engineering Structures</i> , 2021, 241, 112490.	5.3	14
78	Highly efficient achromatic subdiffraction focusing lens in the near field with large numerical aperture. <i>Photonics Research</i> , 2021, 9, 2088.	7.0	3
79	From microscale to mesoscale: The non-linear behavior prediction of 3D braided composites based on the SCA2 concurrent multiscale simulation. <i>Composites Science and Technology</i> , 2021, 213, 108947.	7.8	16
80	Segmentation of computed tomography images and high-precision reconstruction of rubber composite structure based on deep learning. <i>Composites Science and Technology</i> , 2021, 213, 108875.	7.8	20
81	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration. <i>Advanced Materials</i> , 2021, 33, e2106175.	21.0	60
82	Topological designs of mechanical-electromagnetic integrated laminate metastructure for broadband microwave absorption based on bi-directional evolutionary optimization. <i>Composites Science and Technology</i> , 2021, 213, 108898.	7.8	28
83	Mechanical performance and defect analysis of the imperfect micro smooth gyroid cylinder shell structure. <i>Composite Structures</i> , 2021, 273, 114320.	5.8	23
84	Mechanical performances of continuous carbon fiber reinforced PLA composites printed in vacuum. <i>Composites Part B: Engineering</i> , 2021, 225, 109277.	12.0	40
85	Novel multifunctional lattice composite structures with superior load-bearing capacities and radar absorption characteristics. <i>Composites Science and Technology</i> , 2021, 216, 109064.	7.8	27
86	Soft pneumatic actuators by digital light processing combined with injection-assisted post-curing. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 159-172.	3.6	6
87	Quantificational 4D Visualization of Industrial Electrodeposition. <i>Advanced Science</i> , 2021, 8, e2101373.	11.2	9
88	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration ( <i>Adv. Mater.</i> 45/2021). <i>Advanced Materials</i> , 2021, 33, 2170356.	21.0	7
89	Review on mechanics of ultra-high-temperature materials. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1347-1370.	3.4	29
90	Mechanical analysis and modeling of metallic lattice sandwich additively fabricated by selective laser melting. <i>Thin-Walled Structures</i> , 2020, 146, 106189.	5.3	45

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91	All-carbon positive electrodes for stable aluminium batteries. <i>Journal of Energy Chemistry</i> , 2020, 42, 17-26.	12.9	27
92	Dispersion and stability of SiC ceramic slurry for stereolithography. <i>Ceramics International</i> , 2020, 46, 4720-4729.	4.8	129
93	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
94	In situ characterizations of mechanical behaviors of freestanding (Gd <sub>0.9</sub> Yb <sub>0.1</sub> ) <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> coatings by bending tests under different temperatures based on digital image correlation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 491-502.	5.7	18
95	The Dynamic response of shallow sandwich arch with auxetic metallic honeycomb core under localized impulsive loading. <i>International Journal of Impact Engineering</i> , 2020, 137, 103442.	5.0	47
96	An all-dielectric 3D Luneburg lens constructed by common-vertex coaxial circular cones. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 015110.	2.8	7
97	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
98	Modeling the anisotropic elastocaloric effect of textured NiMnGa ferromagnetic shape memory alloys. <i>International Journal of Solids and Structures</i> , 2020, 191-192, 509-528.	2.7	18
99	A constitutive model for elastoplastic-damage coupling effect of unidirectional fiber-reinforced polymer matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105736.	7.6	24
100	Bending behavior of lightweight C/SiC pyramidal lattice core sandwich panels. <i>International Journal of Mechanical Sciences</i> , 2020, 171, 105409.	6.7	36
101	Acoustic emission characterization of tensile damage in 3D braiding composite shafts. <i>Polymer Testing</i> , 2020, 81, 106176.	4.8	15
102	In situ X-ray micro-computed tomography study of the damage evolution of prefabricated through-holes in SLM-Printed AlSi10Mg alloy under tension. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153576.	5.5	21
103	Numerical and experimental studies on compressive behavior of Gyroid lattice cylindrical shells. <i>Materials and Design</i> , 2020, 186, 108340.	7.0	70
104	Formation of adiabatic shear band within Ti-6Al-4V: An in-situ study with high-speed photography and temperature measurement. <i>International Journal of Mechanical Sciences</i> , 2020, 171, 105401.	6.7	21
105	Lithium intercalation drives mechanical properties deterioration in bulk and single-layered black phosphorus: a first-principles study. <i>2D Materials</i> , 2020, 7, 025028.	4.4	10
106	Damage characterization and numerical simulation of shear experiment of plain woven glass-fiber reinforced composites based on 3D geometric reconstruction. <i>Composite Structures</i> , 2020, 233, 111746.	5.8	22
107	Frequency-selective-surface based sandwich structure for both effective loadbearing and customizable microwave absorption. <i>Composite Structures</i> , 2020, 235, 111792.	5.8	36
108	Customized Kirigami Electrodes for Flexible and Deformable Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 780-788.	8.0	50

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109	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
110	Effects of surface stress on lithium-ion diffusion kinetics in nanosphere electrodes of lithium-ion batteries. <i>International Journal of Mechanical Sciences</i> , 2020, 169, 105323.	6.7	23
111	Mechanical behavior of anti-oxidation coatings on C/C composites at elevated temperature: An in-situ indentation study. <i>Ceramics International</i> , 2020, 46, 6628-6633.	4.8	3
112	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
113	Ionic Conductive Gels for Optically Manipulatable Microwave Stealth Structures. <i>Advanced Science</i> , 2020, 7, 1902162.	11.2	57
114	Liquid gallium as long cycle life and recyclable negative electrode for Al-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 391, 123594.	12.7	25
115	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
116	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
117	Design, fabrication and stiffness analysis of a novel GFRP sandwiched pipe with stiffened core. <i>Thin-Walled Structures</i> , 2020, 156, 106982.	5.3	11
118	In-plane compression behavior of hybrid honeycomb metastructures: Theoretical and experimental studies. <i>Aerospace Science and Technology</i> , 2020, 106, 106081.	4.8	51
119	Hexagon-Twist Frequency Reconfigurable Antennas via Multi-Material Printed Thermo-Responsive Origami Structures. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	11
120	3D-printed highly deformable electrodes for flexible lithium ion batteries. <i>Energy Storage Materials</i> , 2020, 33, 55-61.	18.0	64
121	Fabrication and uniaxial compression mechanical behavior of composite corrugated-core sandwich cylinder with thin-wall metal liner. <i>Mechanics of Advanced Materials and Structures</i> , 2020, , 1-14.	2.6	6
122	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
123	Stress among the APS-Prepared TBCs: Testing and Analysis. , 2020, , .		1
124	Axial compression deformability and energy absorption of hierarchical thermoplastic composite honeycomb graded structures. <i>Composite Structures</i> , 2020, 254, 112851.	5.8	29
125	Experimental and numerical study on damage mode of RC slabs under combined blast and fragment loading. <i>International Journal of Impact Engineering</i> , 2020, 142, 103579.	5.0	29
126	Broadband radar absorbing composites: Spatial scale effect and environmental adaptability. <i>Composites Science and Technology</i> , 2020, 197, 108262.	7.8	30



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127	A general model for the temperature-dependent deformation and tensile failure of photo-cured polymers. <i>Extreme Mechanics Letters</i> , 2020, 39, 100826.	4.1	8
128	Pre-lithiated Li(NixMnyCoz)O2 nanoparticles with a double-layer lithium structure. <i>Functional Materials Letters</i> , 2020, 13, 2050020.	1.2	0
129	In-situ heat generation measurement of the anode and cathode in a single-layer lithium ion battery cell. <i>International Journal of Energy Research</i> , 2020, 44, 9141-9148.	4.5	4
130	A crystal plasticity based constitutive model accounting for R phase and two-step phase transition of polycrystalline NiTi shape memory alloys. <i>International Journal of Solids and Structures</i> , 2020, 193-194, 503-526.	2.7	14
131	Dynamic response of fiber metal laminates subjected to localized high impulse blast loading. <i>Composite Structures</i> , 2020, 243, 112216.	5.8	11
132	Advances in numerical modeling of environmental barrier coating systems for gas turbines. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3363-3379.	5.7	45
133	Rapid Volatilization Induced Mechanically Robust Shape-Morphing Structures toward 4D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 17979-17987.	8.0	50
134	Micro and nanolattice fabrication using projection micro litho stereo exposure additive manufacturing techniques and synchrotron X-ray 3D imaging-based defect characterization. <i>Science China Technological Sciences</i> , 2020, 63, 561-570.	4.0	2
135	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
136	Atomic-scale simulations for lithium dendrite growth driven by strain gradient. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 533-542.	3.6	5
137	4D printed multi-stable metamaterials with mechanically tunable performance. <i>Composite Structures</i> , 2020, 252, 112663.	5.8	83
138	Strong influence of strain gradient on lithium diffusion: flexo-diffusion effect. <i>Nanoscale</i> , 2020, 12, 15175-15184.	5.6	9
139	Indentation experiments and simulations of nonuniformly photocrosslinked polymers in 3D printed structures. <i>Additive Manufacturing</i> , 2020, 35, 101420.	3.0	8
140	Investigation on the temperature dependent out-of-plane quasi-static compressive behavior of metallic honeycombs. <i>Thin-Walled Structures</i> , 2020, 149, 106625.	5.3	11
141	Optimization of flexible multilayered metastructure fabricated by dielectric-magnetic nano lossy composites with broadband microwave absorption. <i>Composites Science and Technology</i> , 2020, 191, 108066.	7.8	40
142	Nano-second temporal particle behavior in high-power impulse magnetron sputtering discharge in a cylindrical cathode. <i>Journal of Applied Physics</i> , 2020, 127, 023301.	2.5	3
143	Compressive response of multi-layered thermoplastic composite corrugated sandwich panels: Modelling and experiments. <i>Composites Part B: Engineering</i> , 2020, 189, 107899.	12.0	36
144	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

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145	Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. <i>ACS Nano</i> , 2020, 14, 3469-3476.	14.6	70
146	Active Reconfigurable Tristable Square- $\pi$ -Twist Origami. <i>Advanced Functional Materials</i> , 2020, 30, 1909087.	14.9	50
147	Quantifying the 2D anisotropic displacement and strain fields in graphite-based electrode via in situ scanning electron microscopy and digital image correlation. <i>Extreme Mechanics Letters</i> , 2020, 35, 100635.	4.1	9
148	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
149	Mechanical performance of topology-optimized 3D lattice materials manufactured via selective laser sintering. <i>Composite Structures</i> , 2020, 238, 111985.	5.8	41
150	Parameters analysis and optimization of a typical multistable mechanical metamaterial. <i>Extreme Mechanics Letters</i> , 2020, 35, 100640.	4.1	34
151	A novel designed visualized Li-ion battery for in-situ measuring the variation of internal temperature. <i>Extreme Mechanics Letters</i> , 2020, 37, 100707.	4.1	13
152	Mechanical analysis and design of flexible beads-and-thread lithium-ion battery. <i>Extreme Mechanics Letters</i> , 2020, 37, 100717.	4.1	6
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