

Daining Fang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

663 papers	15,486 citations	59 h-index	85 g-index
687 ext. papers	19,407 ext. citations	5 avg, IF	7.33 L-index

#	Paper	IF	Citations
663	Reconfigurable force-displacement profiles of the square-twist origami. <i>International Journal of Solids and Structures</i> , 2022 , 111471	3.1	1
662	Enhancing cryogenic mechanical properties of epoxy resins toughened by biscitraconimide resin. <i>Composites Science and Technology</i> , 2022 , 220, 109252	8.6	2
661	Parametric analyses on multiscale elastic behavior of 3D braided composites with pore defects. <i>Composite Structures</i> , 2022 , 287, 115332	5.3	1
660	Bio-inspired 3D printing of self-growing multinetwork elastomer composites. <i>Composite Structures</i> , 2022 , 279, 114777	5.3	1
659	Multiscale viscoelastic behavior of 3D braided composites with pore defects. <i>Composites Science and Technology</i> , 2022 , 217, 109114	8.6	2
658	Application of generative adversarial network-based inversion algorithm in imaging two-dimensional lossy biaxial anisotropic scatterer. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	6
657	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	7.1	2
656	A compact multifunctional metastructure for Low-frequency broadband sound absorption and crash energy dissipation. <i>Materials and Design</i> , 2022 , 215, 110462	8.1	6
655	Asymmetric Mechanical Properties in Ferroelectrics Driven by Flexo-deformation Effect. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 104891	5	1
654	A concurrent three-scale scheme FE-SCA2 for the nonlinear mechanical behavior of braided composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114827	5.7	2
653	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 , 104893	5	2
652	An in situ micro-indentation apparatus for investigating mechanical parameters of thermal barrier coatings under temperature gradient.. <i>Review of Scientific Instruments</i> , 2022 , 93, 045102	1.7	
651	Initiation of surface wrinkling during photopolymerization. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 162, 104838	5	0
650	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	6.1	0
649	A 4D x-ray computer microtomography for high-temperature electrochemistry.. <i>Science Advances</i> , 2022 , 8, eabm5678	14.3	2
648	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	5	0
647	Three-dimensional assembled dual-material lattice with tailorable thermal expansion: design method, modeling, and testing. <i>Composite Structures</i> , 2022 , 115724	5.3	

646	Review on mechanics of ultra-high-temperature materials. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 1347-1370	2	4
645	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> , 2021 , 218, 109139	8.6	2
644	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration (Adv. Mater. 45/2021). <i>Advanced Materials</i> , 2021 , 33, 2170356	24	0
643	Power spectrum in geometrical coding generates impact on the scattering of random electromagnetic coding metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	0
642	Recent Progress in Active Mechanical Metamaterials and Construction Principles. <i>Advanced Science</i> , 2021 , e2102662	13.6	10
641	Quantificational 4D Visualization of Industrial Electrodeposition. <i>Advanced Science</i> , 2021 , e2101373	13.6	2
640	An in situ microtomography apparatus with a laboratory x-ray source for elevated temperatures of up to 1000 °C. <i>Review of Scientific Instruments</i> , 2021 , 92, 033704	1.7	2
639	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	8.4	5
638	Design of self-supporting lattices for additive manufacturing. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 148, 104298	5	16
637	Shape-Memory Balloon Structures by Pneumatic Multi-material 4D Printing. <i>Advanced Functional Materials</i> , 2021 , 31, 2010872	15.6	11
636	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	3.9	3
635	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	5.3	4
634	Dynamic response of stiffened plate under internal blast: Experimental and numerical investigation. <i>Marine Structures</i> , 2021 , 77, 102957	3.8	28
633	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	2.6	3
632	Evolutionary optimization design of honeycomb metastructure with effective mechanical resistance and broadband microwave absorption. <i>Carbon</i> , 2021 , 177, 79-89	10.4	8
631	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	4.9	2
630	Water vapor volatilization and oxidation induced surface cracking of environmental barrier coating systems: A numerical approach. <i>Ceramics International</i> , 2021 , 47, 16547-16554	5.1	1
629	Internal field study of 21700 battery based on long-life embedded wireless temperature sensor. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 895	2	2

- 628 Highly Efficient Gradient Solid Immersion Lens with Large Numerical Aperture for Broadband Achromatic Deep Subwavelength Focusing and Magnified Far Field. *Advanced Optical Materials*, **2021**, 9, 2100509 8.1 1
- 627 A transient updated Lagrangian finite element formulation for bond formation in fused deposition modeling process. *Journal of the Mechanics and Physics of Solids*, **2021**, 152, 104450 5 1
- 626 Progress and challenges towards additive manufacturing of SiC ceramic. *Journal of Advanced Ceramics*, **2021**, 10, 637-674 10.7 18
- 625 A multiscale study of structural and compositional changes in a natural nanocomposite: Osteoporotic bone with chronic endogenous steroid excess. *Bone*, **2021**, 143, 115666 4.7 2
- 624 Effects of fine grains and sintering additives on stereolithography additive manufactured Al₂O₃ ceramic. *Ceramics International*, **2021**, 47, 2303-2310 5.1 32
- 623 Deformation and failure modes of aluminum foam-cored sandwich plates under air-blast loading. *Composite Structures*, **2021**, 258, 113317 5.3 7
- 622 Simultaneously program thermal expansion and Poisson's ratio in three dimensional mechanical metamaterial. *Composite Structures*, **2021**, 262, 113365 5.3 6
- 621 Recent progress in the design and fabrication of multifunctional structures based on metamaterials. *Current Opinion in Solid State and Materials Science*, **2021**, 25, 100883 12 17
- 620 Stereolithography additive manufacturing of multi-ceramic triangle structures with tunable thermal expansion. *Journal of the European Ceramic Society*, **2021**, 41, 2796-2806 6 14
- 619 Design and analysis for large magnitudes of programmable Poisson's ratio in a series of lightweight cylindrical metastructures. *International Journal of Mechanical Sciences*, **2021**, 195, 106220 5.5 9
- 618 Stereolithography additive manufacturing and sintering approaches of SiC ceramics. *Open Ceramics*, **2021**, 5, 100046 3.3 4
- 617 An improved sub-step time-marching procedure for linear and nonlinear dynamics with high-order accuracy and high-efficient energy conservation. *Applied Mathematical Modelling*, **2021**, 90, 78-100 4.5 7
- 616 Deformation behavior of heterogeneous multi-morphology lattice core hybrid structures. *Additive Manufacturing*, **2021**, 37, 101674 6.1 4
- 615 SMP-based multi-stable mechanical metamaterials: From bandgap tuning to wave logic gates. *Extreme Mechanics Letters*, **2021**, 42, 101077 3.9 17
- 614 Novel multifunctional negative stiffness mechanical metamaterial structure: Tailored functions of multi-stable and compressive mono-stable. *Composites Part B: Engineering*, **2021**, 204, 108501 10 8
- 613 Initial Electrode Kinetics of Anion Intercalation and De-intercalation in Nonaqueous Al-Graphite Batteries □ *Chinese Journal of Chemistry*, **2021**, 39, 157-164 4.9 3
- 612 A high-order accurate explicit time integration method based on cubic b-spline interpolation and weighted residual technique for structural dynamics. *International Journal for Numerical Methods in Engineering*, **2021**, 122, 431-454 2.4 6
- 611 Numerical and theoretical analysis of the dynamic mechanical behaviour of a modified rhombic dodecahedron lattice structure. *International Journal of Mechanics and Materials in Design*, **2021**, 17, 271-283 2.5 3

610	Modified Luneburg Lens for Achromatic Subdiffraction Focusing and Directional Emission. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	2
609	Multifunctional carbon fiber reinforced multilayered metastructure with broadband microwave absorption and effective mechanical resistance. <i>Polymer Composites</i> , 2021 , 42, 1846-1854	3	2
608	Hierarchical mechanical metamaterials built with scalable tristable elements for ternary logic operation and amplitude modulation. <i>Science Advances</i> , 2021 , 7,	14.3	18
607	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	8.1	8
606	Ultrabroadband compact lens antenna with high performance based on a transmission gradient index medium. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 175101	3	1
605	Multi-functional cylindrical metastructures to simultaneously program both thermal expansion and Poisson's ratio. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101177	3.9	4
604	Two-scale damage failure analysis of 3D braided composites considering pore defects. <i>Composite Structures</i> , 2021 , 260, 113556	5.3	8
603	Conformally Mapped Mikaelian Lens for Broadband Achromatic High Resolution Focusing. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000564	8.3	3
602	Micro-CT based trans-scale damage analysis of 3D braided composites with pore defects. <i>Composites Science and Technology</i> , 2021 , 211, 108830	8.6	10
601	In-situ synchrotron X-ray tomography investigation of the imperfect smooth-shell cylinder structure. <i>Composite Structures</i> , 2021 , 267, 113926	5.3	17
600	Further insights of a composite implicit time integration scheme and its performance on linear seismic response analysis. <i>Engineering Structures</i> , 2021 , 241, 112490	4.7	2
599	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	8.6	2
598	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	8.6	7
597	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration. <i>Advanced Materials</i> , 2021 , 33, e2106175	24	14
596	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	8.6	3
595	Mechanical performance and defect analysis of the imperfect micro smooth gyroid cylinder shell structure. <i>Composite Structures</i> , 2021 , 273, 114320	5.3	3
594	Mechanical performances of continuous carbon fiber reinforced PLA composites printed in vacuum. <i>Composites Part B: Engineering</i> , 2021 , 225, 109277	10	4
593	Novel multifunctional lattice composite structures with superior load-bearing capacities and radar absorption characteristics. <i>Composites Science and Technology</i> , 2021 , 216, 109064	8.6	5

- 592 Soft pneumatic actuators by digital light processing combined with injection-assisted post-curing. *Applied Mathematics and Mechanics (English Edition)*, **2021**, 42, 159-172 3.2 2
- 591 Axial compression deformability and energy absorption of hierarchical thermoplastic composite honeycomb graded structures. *Composite Structures*, **2020**, 254, 112851 5.3 9
- 590 Experimental and numerical study on damage mode of RC slabs under combined blast and fragment loading. *International Journal of Impact Engineering*, **2020**, 142, 103579 4 13
- 589 Broadband radar absorbing composites: Spatial scale effect and environmental adaptability. *Composites Science and Technology*, **2020**, 197, 108262 8.6 13
- 588 A general model for the temperature-dependent deformation and tensile failure of photo-cured polymers. *Extreme Mechanics Letters*, **2020**, 39, 100826 3.9 2
- 587 Pre-lithiated Li(NixMnyCoz)O2 nanoparticles with a double-layer lithium structure. *Functional Materials Letters*, **2020**, 13, 2050020 1.2
- 586 In-situ heat generation measurement of the anode and cathode in a single-layer lithium ion battery cell. *International Journal of Energy Research*, **2020**, 44, 9141-9148 4.5 2
- 585 A crystal plasticity based constitutive model accounting for R phase and two-step phase transition of polycrystalline NiTi shape memory alloys. *International Journal of Solids and Structures*, **2020**, 193-194, 503-526 3.1 5
- 584 Out-of-plane dynamic crushing behavior of joint-based hierarchical honeycombs. *Journal of Sandwich Structures and Materials*, **2020**, 109963622090978 2.1 6
- 583 Dynamic response of fiber metal laminates subjected to localized high impulse blast loading. *Composite Structures*, **2020**, 243, 112216 5.3 5
- 582 Advances in numerical modeling of environmental barrier coating systems for gas turbines. *Journal of the European Ceramic Society*, **2020**, 40, 3363-3379 6 16
- 581 Rapid Volatilization Induced Mechanically Robust Shape-Morphing Structures toward 4D Printing. *ACS Applied Materials & Interfaces*, **2020**, 12, 17979-17987 9.5 29
- 580 Micro and nanolattice fabrication using projection micro litho stereo exposure additive manufacturing techniques and synchrotron X-ray 3D imaging-based defect characterization. *Science China Technological Sciences*, **2020**, 63, 561-570 3.5 1
- 579 A novel embedded method for in-situ measuring internal multi-point temperatures of lithium ion batteries. *Journal of Power Sources*, **2020**, 456, 227981 8.9 21
- 578 Atomic-scale simulations for lithium dendrite growth driven by strain gradient. *Applied Mathematics and Mechanics (English Edition)*, **2020**, 41, 533-542 3.2 4
- 577 4D printed multi-stable metamaterials with mechanically tunable performance. *Composite Structures*, **2020**, 252, 112663 5.3 30
- 576 Strong influence of strain gradient on lithium diffusion: flexo-diffusion effect. *Nanoscale*, **2020**, 12, 15175-15184 7.7 15
- 575 Indentation experiments and simulations of nonuniformly photocrosslinked polymers in 3D printed structures. *Additive Manufacturing*, **2020**, 35, 101420 6.1 4

574	Investigation on the temperature dependent out-of-plane quasi-static compressive behavior of metallic honeycombs. <i>Thin-Walled Structures</i> , 2020 , 149, 106625	4.7	1
573	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	8.6	21
572	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	2
571	Compressive response of multi-layered thermoplastic composite corrugated sandwich panels: Modelling and experiments. <i>Composites Part B: Engineering</i> , 2020 , 189, 107899	10	21
570	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	8.6	26
569	Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. <i>ACS Nano</i> , 2020 , 14, 3469-3476	16.7	36
568	Active Reconfigurable Tristable Square-Twist Origami. <i>Advanced Functional Materials</i> , 2020 , 30, 1909087	15.6	31
567	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	3.9	2
566	Dynamic compressive behavior of a modified additively manufactured rhombic dodecahedron 316L stainless steel lattice structure. <i>Thin-Walled Structures</i> , 2020 , 148, 106586	4.7	35
565	Mechanical performance of topology-optimized 3D lattice materials manufactured via selective laser sintering. <i>Composite Structures</i> , 2020 , 238, 111985	5.3	18
564	Parameters analysis and optimization of a typical multistable mechanical metamaterial. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100640	3.9	10
563	A novel designed visualized Li-ion battery for in-situ measuring the variation of internal temperature. <i>Extreme Mechanics Letters</i> , 2020 , 37, 100707	3.9	4
562	Mechanical analysis and design of flexible beads-and-thread lithium-ion battery. <i>Extreme Mechanics Letters</i> , 2020 , 37, 100717	3.9	2
561	The continuation and stability analysis methods for quasi-periodic solutions of nonlinear systems. <i>Nonlinear Dynamics</i> , 2020 , 100, 1469-1496	5	6
560	Architecture design of periodic truss-lattice cells for additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 34, 101172	6.1	18
559	Effective thermal conductivity and heat transfer characteristics for a series of lightweight lattice core sandwich panels. <i>Applied Thermal Engineering</i> , 2020 , 173, 115205	5.8	8
558	Investigation of bone matrix composition, architecture and mechanical properties reflect structure-function relationship of cortical bone in glucocorticoid induced osteoporosis. <i>Bone</i> , 2020 , 136, 115334	4.7	8
557	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	10	39

556	Multi-scale elastic property prediction of 3D five-directional braided composites considering pore defects. <i>Composite Structures</i> , 2020 , 244, 112287	5.3	15
555	Fracture Strength Behaviors of Ultra-High-Temperature Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87,	2.7	5
554	Surface Evolution of Aluminum Electrodes in Non-Aqueous Aluminum Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 130530	3.9	3
553	Compression behavior of the 4D printed reentrant honeycomb: experiment and finite element analysis. <i>Smart Materials and Structures</i> , 2020 , 29, 115016	3.4	3
552	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	8.6	34
551	A data-driven self-consistent clustering analysis for the progressive damage behavior of 3D braided composites. <i>Composite Structures</i> , 2020 , 249, 112471	5.3	16
550	Experimentally program large magnitude of Poisson's ratio in additively manufactured mechanical metamaterials. <i>International Journal of Mechanical Sciences</i> , 2020 , 173, 105466	5.5	29
549	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	4	18
548	An all-dielectric 3D Luneburg lens constructed by common-vertex coaxial circular cones. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 015110	3	4
547	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	5.3	25
546	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	3.1	3
545	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	8.4	16
544	Bending behavior of lightweight C/SiC pyramidal lattice core sandwich panels. <i>International Journal of Mechanical Sciences</i> , 2020 , 171, 105409	5.5	12
543	Acoustic emission characterization of tensile damage in 3D braiding composite shafts. <i>Polymer Testing</i> , 2020 , 81, 106176	4.5	6
542	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	5.7	12
541	Numerical and experimental studies on compressive behavior of Gyroid lattice cylindrical shells. <i>Materials and Design</i> , 2020 , 186, 108340	8.1	32
540	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	5.5	10
539	Lithium intercalation drives mechanical properties deterioration in bulk and single-layered black phosphorus: a first-principles study. <i>2D Materials</i> , 2020 , 7, 025028	5.9	5

538	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	5.3	17
537	Frequency-selective-surface based sandwich structure for both effective loadbearing and customizable microwave absorption. <i>Composite Structures</i> , 2020 , 235, 111792	5.3	18
536	Customized Kirigami Electrodes for Flexible and Deformable Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 780-788	9.5	18
535	Mechanical properties of Invar 36 alloy additively manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138799	5.3	35
534	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	5.5	17
533	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	5.1	1
532	Digital light processing of 3Y-TZP strengthened ZrO ₂ ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138768	5.3	44
531	Ionic Conductive Gels for Optically Manipulatable Microwave Stealth Structures. <i>Advanced Science</i> , 2020 , 7, 1902162	13.6	38
530	Liquid gallium as long cycle life and recyclable negative electrode for Al-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 391, 123594	14.7	13
529	Structured Interfaces for Improving the Tensile Strength and Toughness of Stiff/Highly Stretchable Polymer Hybrids. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000652	6.8	1
528	Additively-manufactured anisotropic and isotropic 3D plate-lattice materials for enhanced mechanical performance: Simulations & experiments. <i>Acta Materialia</i> , 2020 , 199, 397-412	8.4	24
527	Design, fabrication and stiffness analysis of a novel GFRP sandwiched pipe with stiffened core. <i>Thin-Walled Structures</i> , 2020 , 156, 106982	4.7	1
526	In-plane compression behavior of hybrid honeycomb metastructures: Theoretical and experimental studies. <i>Aerospace Science and Technology</i> , 2020 , 106, 106081	4.9	15
525	Hexagon-Twist Frequency Reconfigurable Antennas via Multi-Material Printed Thermo-Responsive Origami Structures. <i>Frontiers in Materials</i> , 2020 , 7,	4	5
524	3D-printed highly deformable electrodes for flexible lithium ion batteries. <i>Energy Storage Materials</i> , 2020 , 33, 55-61	19.4	25
523	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	1.8	3
522	4D printed origami metamaterials with tunable compression twist behavior and stress-strain curves. <i>Composites Part B: Engineering</i> , 2020 , 201, 108344	10	42
521	Mechanical analysis and modeling of metallic lattice sandwich additively fabricated by selective laser melting. <i>Thin-Walled Structures</i> , 2020 , 146, 106189	4.7	24

520	All-carbon positive electrodes for stable aluminium batteries. <i>Journal of Energy Chemistry</i> , 2020 , 42, 17-26	18
519	Dispersion and stability of SiC ceramic slurry for stereolithography. <i>Ceramics International</i> , 2020 , 46, 4720-4729	5.1 58
518	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	6 20
517	In situ characterizations of mechanical behaviors of freestanding (Gd _{0.9} Yb _{0.1}) ₂ Zr ₂ O ₇ coatings by bending tests under different temperatures based on digital image correlation. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 491-502	6 9
516	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	3.9 20
515	Experimental characterization of the compaction behavior in preforming process for 3D stitched carbon fabric. <i>Composites Communications</i> , 2020 , 19, 203-209	6.7 5
514	Sustainable recycling of titanium scraps and purity titanium production via molten salt electrolysis. <i>Journal of Cleaner Production</i> , 2020 , 261, 121314	10.3 13
513	Depolarization Behavior of Ti Deposition at Liquid Metal Cathodes in a NaCl-KCl-KF Melt. <i>Journal of the Electrochemical Society</i> , 2019 , 166, E401-E406	3.9 5
512	Thick electrodes upon biomass-derivative carbon current collectors: High-area capacity positive electrodes for aluminum-ion batteries. <i>Electrochimica Acta</i> , 2019 , 323, 134805	6.7 8
511	A nonlinear mechanics model of soft network metamaterials with unusual swelling behavior and tunable phononic band gaps. <i>Composites Science and Technology</i> , 2019 , 183, 107822	8.6 17
510	A damage-induced short-circuit diffusion model applied to the oxidation calculation of ceramic matrix composites (CMCs). <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 127, 105621	8.4 4
509	A finite deformation theory of desolvation and swelling in partially photo-cross-linked polymer networks for 3D/4D printing applications. <i>Soft Matter</i> , 2019 , 15, 1005-1016	3.6 14
508	Mechanical behaviors of C/SiC pyramidal lattice core sandwich panel under in-plane compression. <i>Composite Structures</i> , 2019 , 214, 103-113	5.3 10
507	Yield and failure theory for unidirectional polymer-matrix composites. <i>Composites Part B: Engineering</i> , 2019 , 164, 612-619	10 19
506	Flexural properties of carbon-carbon composites at temperatures up to 2600 °C. <i>Materials Research Express</i> , 2019 , 6, 085629	1.7 5
505	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 53
504	Failure analysis of 3D printed glass fiber/PA12 composite lattice structures using DIC. <i>Composite Structures</i> , 2019 , 225, 111192	5.3 18
503	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	5.5 36

502	Out-of-plane compressive performance and energy absorption of multi-layer graded sinusoidal corrugated sandwich panels. <i>Materials and Design</i> , 2019 , 178, 107858	8.1	33
501	Grayscale digital light processing 3D printing for highly functionally graded materials. <i>Science Advances</i> , 2019 , 5, eaav5790	14.3	169
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