# Daining Fang

## List of Publications by Citations



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|---|---|---|---|
| 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 | High-Performance Aluminum-Ion Battery with CuS@C Microsphere Composite Cathode. *ACS Nano*, **2017**, 11, 469-477 | 16.7 | 298 |
| 662 | Mechanical and thermal transport properties of graphene with defects. *Applied Physics Letters*, **2011**, 99, 041901 | 3.4 | 288 |
| 661 | Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. *Nature Materials*, **2018**, 17, 268-276 | 27 | 216 |
| 660 | Grayscale digital light processing 3D printing for highly functionally graded materials. *Science Advances*, **2019**, 5, eaav5790 | 14.3 | 169 |
| 659 | Thermoelastic damping in micro-beam resonators. *International Journal of Solids and Structures*, **2006**, 43, 3213-3229 | 3.1 | 168 |
| 658 | Ballistic impact experiments of metallic sandwich panels with aluminium foam core. *International Journal of Impact Engineering*, **2010**, 37, 1045-1055 | 4 | 144 |
| 657 | Origami by frontal photopolymerization. *Science Advances*, **2017**, 3, e1602326 | 14.3 | 143 |
| 656 | Preparation and characterization of 3D printed continuous carbon fiber reinforced thermosetting composites. *Polymer Testing*, **2018**, 65, 29-34 | 4.5 | 141 |
| 655 | Mechanical properties of hierarchical cellular materials. Part I: Analysis. *Composites Science and Technology*, **2008**, 68, 3380-3387 | 8.6 | 139 |
| 654 | Nonlinear electric□mechanical behavior and micromechanics modelling of ferroelectric domain evolution. *Acta Materialia*, **1999**, 47, 2913-2926 | 8.4 | 138 |
| 653 | 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 | 5 | 128 |
| 652 | Study of fatigue crack characteristics by acoustic emission. *Engineering Fracture Mechanics*, **1995**, 51, 401-416 | 4.2 | 124 |
| 651 | Non-linear constitutive relations for magnetostrictive materials. *International Journal of Non-Linear Mechanics*, **2003**, 38, 1053-1065 | 2.8 | 115 |
| 650 | Manufacturing and testing of a CFRC sandwich cylinder with Kagome cores. *Composites Science and Technology*, **2009**, 69, 2695-2700 | 8.6 | 110 |
| 649 | Processing and Mechanical Properties of Zirconium Diboride-Based Ceramics Prepared by Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2007**, 90, 1992-1997 | 3.8 | 107 |
| 648 | Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9455-E9464 | 11.5 | 104 |
| 647 | Evaluation of compressive properties of SLM-fabricated multi-layer lattice structures by experimental test and □CT-based finite element analysis. *Materials and Design*, **2019**, 169, 107685 | 8.1 | 103 |

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| 646 | High solid loading, low viscosity photosensitive Al2O3 slurry for stereolithography based additive manufacturing. *Ceramics International*, **2019**, 45, 203-208 | 5.1 | 101 |
| 645 | Axial crushing behaviors of multi-cell tubes with triangular lattices. *International Journal of Impact Engineering*, **2014**, 63, 106-117 | 4 | 97 |
| 644 | Size-dependent ferroelectric behaviors of BaTiO3 nanowires. *Applied Physics Letters*, **2008**, 92, 012906 | 3.4 | 97 |
| 643 | 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 | 5.5 | 94 |
| 642 | Graphene-Based Sandwich Structures for Frequency Selectable Electromagnetic Shielding. *ACS Applied Materials & Interfaces*, **2017**, 9, 36119-36129 | 9.5 | 92 |
| 641 | High-Speed 3D Printing of High-Performance Thermosetting Polymers via Two-Stage Curing. *Macromolecular Rapid Communications*, **2018**, 39, e1700809 | 4.8 | 92 |
| 640 | Diffusion-Induced Stresses of Spherical Core-Shell Electrodes in Lithium-Ion Batteries: The Effects of the Shell and Surface/Interface Stress. *Journal of the Electrochemical Society*, **2013**, 160, A595-A600 | 3.9 | 91 |
| 639 | Laser-induced vibrations of micro-beams under different boundary conditions. *International Journal of Solids and Structures*, **2008**, 45, 1993-2013 | 3.1 | 91 |
| 638 | Micromechanics simulation of ferroelectric polarization switching. *Acta Materialia*, **1997**, 45, 3181-3189 | 8.4 | 89 |
| 637 | Soft mechanical metamaterials with unusual swelling behavior and tunable stress-strain curves. *Science Advances*, **2018**, 4, eaar8535 | 14.3 | 88 |
| 636 | Desolvation Induced Origami of Photocurable Polymers by Digit Light Processing. *Macromolecular Rapid Communications*, **2017**, 38, 1600625 | 4.8 | 87 |
| 635 | A novel carbon fiber reinforced lattice truss sandwich cylinder: Fabrication and experiments. *Composites Part A: Applied Science and Manufacturing*, **2016**, 81, 313-322 | 8.4 | 86 |
| 634 | The temperature-dependent fracture strength model for ultra-high temperature ceramics. *Acta Mechanica Sinica/Lixue Xuebao*, **2010**, 26, 235-239 | 2 | 81 |
| 633 | Mechanical properties of anti-tetrachiral auxetic stents. *Composite Structures*, **2018**, 185, 381-392 | 5.3 | 80 |
| 632 | ElectroChemoMechanical Issues at the Interfaces in Solid-State Lithium Metal Batteries. *Advanced Functional Materials*, **2019**, 29, 1900950 | 15.6 | 79 |
| 631 | Crushing mechanism of hierarchical lattice structure. *Mechanics of Materials*, **2016**, 97, 164-183 | 3.3 | 78 |
| 630 | Nonlinear electric-mechanical behavior of a soft PZT-51 ferroelectric ceramic. *Journal of Materials Science*, **1999**, 34, 4001-4010 | 4.3 | 77 |
| 629 | A cellular metastructure incorporating coupled negative thermal expansion and negative Poisson's ratio. *International Journal of Solids and Structures*, **2018**, 150, 255-267 | 3.1 | 76 |

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| 628 | Strain effect on ferroelectric behaviors of BaTiO3 nanowires: a molecular dynamics study. *Nanotechnology*, **2010**, 21, 015701 | 3.4 | 75 |
| 627 | A Novel Ultrafast Rechargeable Multi-Ions Battery. *Advanced Materials*, **2017**, 29, 1606349 | 24 | 74 |
| 626 | Equivalent analysis and failure prediction of quasi-isotropic composite sandwich cylinder with lattice core under uniaxial compression. *Composite Structures*, **2013**, 101, 180-190 | 5.3 | 74 |
| 625 | Compression behavior of the graded metallic auxetic reentrant honeycomb: Experiment and finite element analysis. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 758, 163-171 | 5.3 | 73 |
| 624 | Free vibration behaviors of carbon fiber reinforced lattice-core sandwich cylinder. *Composites Science and Technology*, **2014**, 100, 26-33 | 8.6 | 73 |
| 623 | Compression and bending performances of carbon fiber reinforced lattice-core sandwich composites. *Composites Part A: Applied Science and Manufacturing*, **2013**, 52, 118-125 | 8.4 | 71 |
| 622 | Love waves in layered piezoelectric/piezomagnetic structures. *Journal of Sound and Vibration*, **2008**, 315, 146-156 | 3.9 | 71 |
| 621 | Temperature Rise Associated with Adiabatic Shear Band: Causality Clarified. *Physical Review Letters*, **2019**, 122, 015503 | 7.4 | 71 |
| 620 | A multiscale elasto-plastic damage model for the nonlinear behavior of 3D braided composites. *Composites Science and Technology*, **2019**, 171, 21-33 | 8.6 | 70 |
| 619 | Crushing behavior of multi-layer metal lattice panel fabricated by selective laser melting. *International Journal of Mechanical Sciences*, **2018**, 145, 389-399 | 5.5 | 69 |
| 618 | Boussinesq problem with the surface effect and its application to contact mechanics at the nanoscale. *International Journal of Solids and Structures*, **2013**, 50, 2620-2630 | 3.1 | 69 |
| 617 | Mechanics of advanced fiber reinforced lattice composites. *Acta Mechanica Sinica/Lixue Xuebao*, **2010**, 26, 825-835 | 2 | 68 |
| 616 | Ultra-Lightweight 3D Carbon Current Collectors: Constructing All-Carbon Electrodes for Stable and High Energy Density Dual-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1801439 | 21.8 | 67 |
| 615 | Hydrophilic/Hydrophobic Composite Shape-Shifting Structures. *ACS Applied Materials & Interfaces*, **2018**, 10, 19932-19939 | 9.5 | 66 |
| 614 | Compression twist deformation of novel tetrachiral architected cylindrical tube inspired by towel gourd tendrils. *Extreme Mechanics Letters*, **2018**, 20, 104-111 | 3.9 | 63 |
| 613 | Dynamic crushing behavior and energy absorption of graded lattice cylindrical structure under axial impact load. *Thin-Walled Structures*, **2018**, 127, 333-343 | 4.7 | 63 |
| 612 | Diffusion-induced stresses of electrode nanomaterials in lithium-ion battery: The effects of surface stress. *Journal of Applied Physics*, **2012**, 112, 103507 | 2.5 | 63 |
| 611 | Fabrication of SiC ceramic architectures using stereolithography combined with precursor infiltration and pyrolysis. *Ceramics International*, **2019**, 45, 14006-14014 | 5.1 | 61 |

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| 610 | Multi-scale design of electromagnetic composite metamaterials for broadband microwave absorption. *Composites Science and Technology*, **2018**, 162, 206-214 | 8.6 | 61 |
| 609 | Fatigue Crack Growth in Ferroelectric Ceramics Driven by Alternating Electric Fields. *Journal of the American Ceramic Society*, **2004**, 87, 840-846 | 3.8 | 61 |
| 608 | Improved manufacturing method and mechanical performances of carbon fiber reinforced lattice-core sandwich cylinder. *Thin-Walled Structures*, **2013**, 68, 75-84 | 4.7 | 60 |
| 607 | Fabrication and testing of composite orthogrid sandwich cylinder. *Composites Science and Technology*, **2017**, 142, 171-179 | 8.6 | 59 |
| 606 | Radar stealth and mechanical properties of a broadband radar absorbing structure. *Composites Part B: Engineering*, **2017**, 123, 19-27 | 10 | 59 |
| 605 | Photosensitive ZrO2 suspensions for stereolithography. *Ceramics International*, **2019**, 45, 12189-12195 | 5.1 | 59 |
| 604 | Preparation and characterization of high-toughness ZrB2/Mo composites by hot-pressing process. *International Journal of Refractory Metals and Hard Materials*, **2009**, 27, 1024-1026 | 4.1 | 59 |
| 603 | Dispersion and stability of SiC ceramic slurry for stereolithography. *Ceramics International*, **2020**, 46, 4720-4729 | 5.1 | 58 |
| 602 | A coupled elastic-plastic damage model for the mechanical behavior of three-dimensional (3D) braided composites. *Composites Science and Technology*, **2018**, 157, 86-98 | 8.6 | 57 |
| 601 | Dynamic response of metallic lattice sandwich structures to impulsive loading. *International Journal of Impact Engineering*, **2012**, 43, 1-5 | 4 | 57 |
| 600 | A predictive micropolar continuum model for a novel three-dimensional chiral lattice with size effect and tension-twist coupling behavior. *Journal of the Mechanics and Physics of Solids*, **2018**, 121, 23-46 | 5 | 56 |
| 599 | Effect of temperature on bending properties and failure mechanism of three-dimensional braided composite. *Materials & Design*, **2012**, 41, 167-170 | | 56 |
| 598 | A lightweight, high compression strength ultra high temperature ceramic corrugated panel with potential for thermal protection system applications. *Materials & Design*, **2015**, 66, 552-556 | | 54 |
| 597 | Mechanical Properties of two novel planar lattice structures. *International Journal of Solids and Structures*, **2008**, 45, 3751-3768 | 3.1 | 54 |
| 596 | Simulations of domain switching in ferroelectrics by a three-dimensional finite element model. *Mechanics of Materials*, **2004**, 36, 959-973 | 3.3 | 54 |
| 595 | Stereolithography-based additive manufacturing of gray-colored SiC ceramic green body. *Journal of the American Ceramic Society*, **2019**, 102, 7198-7209 | 3.8 | 53 |
| 594 | A new temperature dependent fracture strength model for the ZrB2–SiC composites. *Journal of the European Ceramic Society*, **2015**, 35, 2957-2962 | 6 | 53 |
| 593 | Enhanced out-of-plane crushing strength and energy absorption of in-plane graded honeycombs. *Composites Part B: Engineering*, **2017**, 118, 33-40 | 10 | 52 |

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| 592 | Fabrication and mechanical properties of lightweight ZrO2 ceramic corrugated core sandwich panels. *Materials & Design*, **2014**, 64, 91-95 | | 52 |
| 591 | Constructing Repairable Meta-Structures of Ultra-Broad-Band Electromagnetic Absorption from Three-Dimensional Printed Patterned Shells. *ACS Applied Materials & Interfaces*, **2017**, 9, 43179-43187 | 8.5 | 52 |
| 590 | Uniaxial local buckling strength of periodic lattice composites. *Materials & Design*, **2009**, 30, 4136-4145 | | 52 |
| 589 | The structure response of sandwich beams with metallic auxetic honeycomb cores under localized impulsive loading-experiments and finite element analysis. *Materials and Design*, **2019**, 176, 107840 | 8.1 | 51 |
| 588 | Finite Element Analysis of Mechanical Properties of 3D Four-Directional Rectangular Braided Composites Part 1: Microgeometry and 3D Finite Element Model. *Applied Composite Materials*, **2010**, 17, 373-387 | 2 | 50 |
| 587 | A novel sub-step composite implicit time integration scheme for structural dynamics. *Computers and Structures*, **2017**, 182, 176-186 | 4.5 | 49 |
| 586 | Mechanical properties of hierarchical anti-tetrachiral metastructures. *Extreme Mechanics Letters*, **2017**, 16, 18-32 | 3.9 | 49 |
| 585 | Deformation and failure mechanisms of lattice cylindrical shells under axial loading. *International Journal of Mechanical Sciences*, **2009**, 51, 213-221 | 5.5 | 49 |
| 584 | Reversible shape change structures by grayscale pattern 4D printing. *Multifunctional Materials*, **2018**, 1, 015002 | 5.2 | 49 |
| 583 | Fabrication and heat transfer characteristics of C/SiC pyramidal core lattice sandwich panel. *Applied Thermal Engineering*, **2015**, 81, 10-17 | 5.8 | 48 |
| 582 | Macroscopic mechanical response of chiral-type cylindrical metastructures under axial compression loading. *Materials and Design*, **2018**, 158, 198-212 | 8.1 | 47 |
| 581 | Interactions between domain switching and crack propagation in poled BaTiO3 single crystal under mechanical loading. *Acta Materialia*, **2007**, 55, 5758-5767 | 8.4 | 47 |
| 580 | Super tough magnetic hydrogels for remotely triggered shape morphing. *Journal of Materials Chemistry B*, **2018**, 6, 2713-2722 | 7.3 | 46 |
| 579 | Mechanics of shape distortion of DLP 3D printed structures during UV post-curing. *Soft Matter*, **2019**, 15, 6151-6159 | 3.6 | 46 |
| 578 | A curvature-dependent interfacial energy-based interface stress theory and its applications to nano-structured materials: (I) General theory. *Journal of the Mechanics and Physics of Solids*, **2014**, 66, 59-77 | 5 | 46 |
| 577 | Reflection and refraction of plane waves at the interface between piezoelectric and piezomagnetic media. *International Journal of Engineering Science*, **2008**, 46, 1098-1110 | 5.7 | 46 |
| 576 | A universal permittivity-attenuation evaluation diagram for accelerating design of dielectric-based microwave absorption materials: A case of graphene-based composites. *Carbon*, **2017**, 118, 86-97 | 10.4 | 45 |
| 575 | Microstructure, mechanical and dielectric properties of highly porous silicon nitride ceramics produced by a new water-based freeze casting. *Ceramics International*, **2012**, 38, 4373-4377 | 5.1 | 45 |

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| 574 | Polymer-derived silicon nitride ceramics by digital light processing based additive manufacturing. *Journal of the American Ceramic Society*, **2019**, 102, 5117-5126 | 3.8 | 45 |
| 573 | Experimental and simulation investigation of the reversible bi-directional twisting response of tetra-chiral cylindrical shells. *Composite Structures*, **2018**, 203, 142-152 | 5.3 | 45 |
| 572 | Ultra-high-temperature tensile properties and fracture behavior of ZrB2-based ceramics in air above 1500 °C. *Materials & Design*, **2013**, 52, 17-22 | | 44 |
| 571 | Digital light processing of 3Y-TZP strengthened ZrO2 ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 774, 138768 | 5.3 | 44 |
| 570 | Design and analysis of integrated thermal protection system based on lightweight C/SiC pyramidal lattice core sandwich panel. *Materials and Design*, **2016**, 111, 435-444 | 8.1 | 44 |
| 569 | Ultrathin Flexible Carbon Fiber Reinforced Hierarchical Metastructure for Broadband Microwave Absorption with Nano Lossy Composite and Multiscale Optimization. *ACS Applied Materials & Interfaces*, **2018**, 10, 44731-44740 | 9.5 | 43 |
| 568 | Oxygen-vacancy-induced memory effect and large recoverable strain in a barium titanate single crystal. *Physical Review B*, **2010**, 82, | 3.3 | 42 |
| 567 | A unified model for piezocomposites with non-piezoelectric matrix and piezoelectric ellipsoidal inclusions. *International Journal of Solids and Structures*, **1999**, 36, 2707-2733 | 3.1 | 42 |
| 566 | 4D printed origami metamaterials with tunable compression twist behavior and stress-strain curves. *Composites Part B: Engineering*, **2020**, 201, 108344 | 10 | 42 |
| 565 | Damage characterizations and simulation of selective laser melting fabricated 3D re-entrant lattices based on in-situ CT testing and geometric reconstruction. *International Journal of Mechanical Sciences*, **2019**, 157-158, 231-242 | 5.5 | 41 |
| 564 | Reducing diffusion-induced stresses of electrode–collector bilayer in lithium-ion battery by pre-strain. *Journal of Power Sources*, **2013**, 242, 415-420 | 8.9 | 41 |
| 563 | Dynamic crashing and impact energy absorption of 3D braided composite tubes. *Materials Letters*, **2005**, 59, 1491-1496 | 3.3 | 41 |
| 562 | Enhanced out-of-plane compressive strength and energy absorption of 3D printed square and hexagonal honeycombs with variable-thickness cell edges. *Extreme Mechanics Letters*, **2018**, 18, 9-18 | 3.9 | 40 |
| 561 | Theoretical prediction of temperature dependent yield strength for metallic materials. *International Journal of Mechanical Sciences*, **2016**, 105, 273-278 | 5.5 | 40 |
| 560 | Influence of manufacturing geometric defects on the mechanical properties of AlSi10Mg alloy fabricated by selective laser melting. *Journal of Alloys and Compounds*, **2019**, 789, 852-859 | 5.7 | 39 |
| 559 | Compression experiment and numerical evaluation on mechanical responses of the lattice structures with stochastic geometric defects originated from additive-manufacturing. *Composites Part B: Engineering*, **2020**, 194, 108030 | 10 | 39 |
| 558 | Theoretical prediction on the mechanical properties of 3D braided composites using a helix geometry model. *Composite Structures*, **2013**, 100, 511-516 | 5.3 | 39 |
| 557 | A new criterion for domain-switching in ferroelectric materials. *Mechanics of Materials*, **2006**, 38, 25-32 | 3.3 | 39 |

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| 556 | Fracture criteria of piezoelectric ceramics with defects. *Mechanics of Materials*, **2004**, 36, 917-928 | 3.3 | 39 |
| 555 | A study on the digital nano-moiré method and its phase shifting technique. *Measurement Science and Technology*, **2004**, 15, 1716-1721 | 2 | 39 |
| 554 | Mechanical properties and energy absorption of 3D printed square hierarchical honeycombs under in-plane axial compression. *Composites Part B: Engineering*, **2019**, 176, 107219 | 10 | 38 |
| 553 | A photoviscoplastic model for photoactivated covalent adaptive networks. *Journal of the Mechanics and Physics of Solids*, **2014**, 70, 84-103 | 5 | 38 |
| 552 | Wave propagation in piezoelectric/piezomagnetic layered periodic composites. *Acta Mechanica Solida Sinica*, **2008**, 21, 483-490 | 2 | 38 |
| 551 | Predicting the nonlinear response and failure of 3D braided composites. *Materials Letters*, **2004**, 58, 3237-3241 | 3.3 | 38 |
| 550 | Ionic Conductive Gels for Optically Manipulatable Microwave Stealth Structures. *Advanced Science*, **2020**, 7, 1902162 | 13.6 | 38 |
| 549 | Free-standing and flexible LiMnTiO4/carbon nanotube cathodes for high performance lithium ion batteries. *Journal of Power Sources*, **2016**, 321, 120-125 | 8.9 | 38 |
| 548 | In Plane Mechanical Properties of Tetrachiral and Antitetrachiral Hybrid Metastructures. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84, | 2.7 | 37 |
| 547 | Fabrication and testing of composite hierarchical Isogrid stiffened cylinder. *Composites Science and Technology*, **2018**, 157, 152-159 | 8.6 | 37 |
| 546 | Thermal protection system integrating graded insulation materials and multilayer ceramic matrix composite cellular sandwich panels. *Composite Structures*, **2019**, 209, 523-534 | 5.3 | 37 |
| 545 | Mechanical properties and energy absorption capability of AuxHex structure under in-plane compression: Theoretical and experimental studies. *International Journal of Mechanical Sciences*, **2019**, 159, 43-57 | 5.5 | 36 |
| 544 | Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. *ACS Nano*, **2020**, 14, 3469-3476 | 16.7 | 36 |
| 543 | Vibration of microscale beam induced by laser pulse. *Journal of Sound and Vibration*, **2008**, 311, 243-253 | 3.9 | 36 |
| 542 | 3D printing of complex origami assemblages for reconfigurable structures. *Soft Matter*, **2018**, 14, 8051-8059 | 3.9 | 36 |
| 541 | Free vibration of CFRC lattice-core sandwich cylinder with attached mass. *Composites Science and Technology*, **2015**, 118, 226-235 | 8.6 | 35 |
| 540 | Recent development of graphene materials applied in polymer solar cell. *Renewable and Sustainable Energy Reviews*, **2015**, 43, 973-980 | 16.2 | 35 |
| 539 | Dynamic compressive behavior of a modified additively manufactured rhombic dodecahedron 316L stainless steel lattice structure. *Thin-Walled Structures*, **2020**, 148, 106586 | 4.7 | 35 |

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| 538 | Flexible thin broadband microwave absorber based on a pyramidal periodic structure of lossy composite. *Optics Letters*, **2018**, 43, 2764-2767 | 3 | 35 |
| 537 | Molecular dynamics investigations on the size-dependent ferroelectric behavior of BaTiO3 nanowires. *Nanotechnology*, **2009**, 20, 405703 | 3.4 | 35 |
| 536 | Design and manufacturing of a composite lattice structure reinforced by continuous carbon fibers. *Tsinghua Science and Technology*, **2006**, 11, 515-522 | 3.4 | 35 |
| 535 | Mechanical properties of Invar 36 alloy additively manufactured by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2020**, 772, 138799 | 5.3 | 35 |
| 534 | Drastic tailorable thermal expansion chiral planar and cylindrical shell structures explored with finite element simulation. *Composite Structures*, **2019**, 210, 327-338 | 5.3 | 35 |
| 533 | Strain rate effect on the out-of-plane dynamic compressive behavior of metallic honeycombs: Experiment and theory. *Composite Structures*, **2015**, 132, 644-651 | 5.3 | 34 |
| 532 | Deep blue organic light-emitting devices enabled by bipolar phenanthro[9,10-d]imidazole derivatives. *RSC Advances*, **2015**, 5, 72009-72018 | 3.7 | 34 |
| 531 | Mechanics of adhesive contact at the nanoscale: The effect of surface stress. *International Journal of Solids and Structures*, **2014**, 51, 566-574 | 3.1 | 34 |
| 530 | Microstructure and properties of highly porous Y2SiO5 ceramics produced by a new water-based freeze casting. *Materials & Design*, **2013**, 46, 746-750 | | 34 |
| 529 | Fracture strength of the particulate-reinforced ultra-high temperature ceramics based on a temperature dependent fracture toughness model. *Journal of the Mechanics and Physics of Solids*, **2017**, 107, 365-378 | 5 | 34 |
| 528 | Heat transfer mechanism of the C/SiC ceramics pyramidal lattice composites. *Composites Part B: Engineering*, **2014**, 63, 8-14 | 10 | 34 |
| 527 | A hierarchical multiscale model for the elastic-plastic damage behavior of 3D braided composites at high temperature. *Composites Science and Technology*, **2020**, 196, 108230 | 8.6 | 34 |
| 526 | The equivalent thermal conductivity of lattice core sandwich structure: A predictive model. *Applied Thermal Engineering*, **2016**, 93, 236-243 | 5.8 | 33 |
| 525 | Out-of-plane compressive performance and energy absorption of multi-layer graded sinusoidal corrugated sandwich panels. *Materials and Design*, **2019**, 178, 107858 | 8.1 | 33 |
| 524 | Tailorable Thermal Expansion of Lightweight and Robust Dual-Constituent Triangular Lattice Material. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84, | 2.7 | 33 |
| 523 | Solvent inkjet printing process for the fabrication of polymer solar cells. *RSC Advances*, **2013**, 3, 11925 | 3.7 | 33 |
| 522 | A Model of Temperature-Dependent Young's Modulus for Ultrahigh Temperature Ceramics. *Research Letters in Physics*, **2011**, 2011, 1-3 | | 33 |
| 521 | On the effect of particle shape and orientation on elastic properties of metal matrix composites. *Composites Part B: Engineering*, **1997**, 28, 465-481 | 10 | 33 |

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| 520 | Mean stress models for low-cycle fatigue of a nickel-base superalloy. *International Journal of Fatigue*, **1994**, 16, 429-437 | 5 | 33 |
| 519 | The size and strain effects on the electric-field-induced domain evolution and hysteresis loop in ferroelectric BaTiO3 nanofilms. *Computational Materials Science*, **2008**, 44, 404-410 | 3.2 | 32 |
| 518 | Numerical and experimental studies on compressive behavior of Gyroid lattice cylindrical shells. *Materials and Design*, **2020**, 186, 108340 | 8.1 | 32 |
| 517 | Effects of fine grains and sintering additives on stereolithography additive manufactured Al2O3 ceramic. *Ceramics International*, **2021**, 47, 2303-2310 | 5.1 | 32 |
| 516 | Macroscopic response of carbon-fiber pyramidal truss core panel taking account of local defect. *Composites Part B: Engineering*, **2015**, 79, 311-321 | 10 | 31 |
| 515 | Effect of Defect on the Compressive Response of Sandwich Structures with Carbon Fiber Pyramidal Truss Cores. *International Journal of Applied Mechanics*, **2015**, 07, 1550004 | 2.4 | 31 |
| 514 | Active Reconfigurable Tristable Square-Twist Origami. *Advanced Functional Materials*, **2020**, 30, 1909087 | 15.6 | 31 |
| 513 | An energy-based dynamic loss hysteresis model for giant magnetostrictive materials. *International Journal of Solids and Structures*, **2013**, 50, 672-679 | 3.1 | 31 |
| 512 | Optimal design of hierarchical grid-stiffened cylindrical shell structures based on linear buckling and nonlinear collapse analyses. *Thin-Walled Structures*, **2017**, 119, 315-323 | 4.7 | 31 |
| 511 | Characterization of edge effects of composite lattice structures. *Composites Science and Technology* , **2009**, 69, 1896-1903 | 8.6 | 31 |
| 510 | Experimental and numerical investigation on the crushing behavior of sandwich composite under edgewise compression loading. *Composites Part B: Engineering*, **2016**, 94, 34-44 | 10 | 31 |
| 509 | Geometric design of micron-sized crystalline silicon anodes through in situ observation of deformation and fracture behaviors. *Journal of Materials Chemistry A*, **2017**, 5, 12793-12802 | 13 | 30 |
| 508 | 4D printed multi-stable metamaterials with mechanically tunable performance. *Composite Structures*, **2020**, 252, 112663 | 5.3 | 30 |
| 507 | Residual stress analysis in the oxide scale/metal substrate system due to oxidation growth strain and creep deformation. *Acta Mechanica*, **2012**, 223, 2597-2607 | 2.1 | 30 |
| 506 | Systematic study of the ferroelectric properties of Pb(Zr0.5Ti0.5)O3 nanowires. *Journal of Applied Physics*, **2008**, 104, 064118 | 2.5 | 30 |
| 505 | Domain switching in ferroelectric single crystal/ceramics under electromechanical loading. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2005**, 120, 119-124 | 3.1 | 30 |
| 504 | Residual strain around a step edge of artificial Al□i(111)-7□ nanocluster. *Applied Physics Letters*, **2005**, 87, 201908 | 3.4 | 30 |
| 503 | Twistable Origami and Kirigami: from Structure-Guided Smartness to Mechanical Energy Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 3450-3458 | 9.5 | 30 |

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| 502 | Rapid Volatilization Induced Mechanically Robust Shape-Morphing Structures toward 4D Printing. *ACS Applied Materials & Interfaces*, **2020**, 12, 17979-17987 | 9.5 | 29 |
| 501 | Gel electrolytes with a wide potential window for high-rate Al-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 20348-20356 | 13 | 29 |
| 500 | Finite Element Analysis of Mechanical Properties of 3D Four-directional Rectangular Braided Composites:Part 2: Validation of the 3D Finite Element Model. *Applied Composite Materials*, **2010**, 17, 389-404 | 2 | 29 |
| 499 | Magnetoelasticity of Tb0.3Dy0.7Fe1.95 alloys in a multiaxial stress-magnetic field space. *Applied Physics Letters*, **2007**, 90, 182505 | 3.4 | 29 |
| 498 | A shear horizontal surface wave in magnetoelectric materials. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 1287-9 | 3.2 | 29 |
| 497 | Experimentally program large magnitude of Poisson's ratio in additively manufactured mechanical metamaterials. *International Journal of Mechanical Sciences*, **2020**, 173, 105466 | 5.5 | 29 |
| 496 | Porous Y2SiO5 ceramics with a centrosymmetric structure produced by freeze casting. *Ceramics International*, **2015**, 41, 11517-11522 | 5.1 | 28 |
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