

Di Zhang

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.

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|--------------------|--------------------------|----------------|-----------------|
| 610 papers | 23,694 citations | 78 h-index | 117 g-index |
| 621 ext. papers | 27,343 ext. citations | 6.6 avg, IF | 7.22 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 610 | First-Principles Investigation of the Interfacial Stability, Precipitate Formation, and Mechanical Behavior of Al ₃ Li/Al ₃ Zr/Al Interfaces. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022 , 53, 1308 | 2.3 | 0 |
| 609 | Effect of thermomechanical treatment and length-scales on spatial distribution of CNTs in Al matrix. <i>Carbon</i> , 2022 , 190, 384-394 | 10.4 | 1 |
| 608 | Effect of reinforcement volume fraction and T6 heat treatment on microstructure, thermal and mechanical properties of mesophase pitch-based carbon fiber reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 887, 110168 | 5.3 | 0 |
| 607 | All alginate-derived high-performance T-NbO/C//seaweed carbon Li-ion capacitors.. <i>RSC Advances</i> , 2022 , 12, 5743-5748 | 3.7 | |
| 606 | Fabrication, mechanical and thermal properties of tungsten-copper coated graphite flakes reinforced copper matrix composites. <i>Materials and Design</i> , 2022 , 216, 110526 | 8.1 | 1 |
| 605 | Synthesis of hydrous RuO ₂ anchored on seaweed-derived porous carbon for high-performance electrochemical capacitors. <i>Materials Letters</i> , 2022 , 318, 132182 | 3.3 | |
| 604 | Synergistic effects of tungsten coating on the microstructure, thermophysical and mechanical properties of graphite flakes reinforced copper matrix composites. <i>Journal of Alloys and Compounds</i> , 2022 , 165318 | 5.7 | 0 |
| 603 | Room and high-temperature mechanical behavior of reduced graphene oxide-aluminum (RGO-Al) composite wire conductors A micro-mechanical investigation. <i>Materials Characterization</i> , 2022 , 189, 111951 | 3.9 | 0 |
| 602 | Mechanical behavior and interfacial micro-zones of SiCp(CNT) hybrid reinforced aluminum matrix composites. <i>Materials Characterization</i> , 2022 , 111982 | 3.9 | 2 |
| 601 | Simultaneously improving the strength and ductility of the as-sintered (TiB+La ₂ O ₃)/Ti composites by in-situ planting ultra-fine networks into the composite powder. <i>Scripta Materialia</i> , 2022 , 218, 114835 | 5.6 | 1 |
| 600 | Two-dimensional quantum-sheet films with sub-1.2 nm channels for ultrahigh-rate electrochemical capacitance. <i>Nature Nanotechnology</i> , 2021 , | 28.7 | 6 |
| 599 | MXenes as emerging nanomaterials in water purification and environmental remediation.. <i>Science of the Total Environment</i> , 2021 , 811, 152280 | 10.2 | 65 |
| 598 | Construction of Z-scheme heterojunction by coupling BiSnO and BiOBr with abundant oxygen vacancies: Enhanced photodegradation performance and mechanism insight.. <i>Journal of Colloid and Interface Science</i> , 2021 , 612, 550-561 | 9.3 | 2 |
| 597 | Structural modelling and mechanical behaviors of graphene/carbon nanotubes reinforced metal matrix composites via atomic-scale simulations: A review. <i>Composites Part C: Open Access</i> , 2021 , 4, 100120 | 16 | 3 |
| 596 | Heterostructured bulk aluminum with controllable gradient structure: Fabrication strategy and deformation mechanisms. <i>Scripta Materialia</i> , 2021 , 196, 113762 | 5.6 | 4 |
| 595 | Preparation of Sn/Fe nanoparticles for Cr (III) detection in presence of leucine, photocatalytic and antibacterial activities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 253, 119592 | 4.4 | 7 |
| 594 | Effects of graphite flake size on the properties of aligned graphene nanoplatelets covered graphite flakes/aluminum composites. <i>Diamond and Related Materials</i> , 2021 , 116, 108381 | 3.5 | 0 |

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|-----|---|------|----|
| 593 | Process optimization, microstructure characterization and thermal properties of mesophase pitch-based carbon fiber reinforced aluminum matrix composites fabricated by vacuum hot pressing. <i>Composites Part B: Engineering</i> , 2021 , 215, 108746 | 10 | 14 |
| 592 | Enhanced mechanical behavior and fabrication of graphite flakes covered by aligned graphene nanoplatelets reinforced 2A12 aluminum composites. <i>Vacuum</i> , 2021 , 188, 110150 | 3.7 | 2 |
| 591 | Butterfly wing architectures inspire sensor and energy applications. <i>National Science Review</i> , 2021 , 8, nwaa107 | 10.8 | 9 |
| 590 | Hierarchical few-layer fluorine-free Ti3C2TX (T = O, OH)/MoS2 hybrid for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 922-927 | 13 | 6 |
| 589 | A bioinspired solar evaporator for continuous and efficient desalination by salt dilution and secretion. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17985-17993 | 13 | 2 |
| 588 | Enhanced strengthening and hardening via self-stabilized dislocation network in additively manufactured metals. <i>Materials Today</i> , 2021 , 50, 79-79 | 21.8 | 14 |
| 587 | Mechanical Robustness of Metal Nanocomposites Rendered by Graphene Functionalization. <i>Nano Letters</i> , 2021 , 21, 5706-5713 | 11.5 | 3 |
| 586 | Reinforcement with intragranular dispersion of carbon nanotubes in aluminum matrix composites. <i>Composites Part B: Engineering</i> , 2021 , 217, 108915 | 10 | 19 |
| 585 | Boosted charge transfer in dual Z-scheme BiVO@ZnInS/BiSnO heterojunctions: Towards superior photocatalytic properties for organic pollutant degradation. <i>Chemosphere</i> , 2021 , 276, 130226 | 8.4 | 14 |
| 584 | Remarkable anisotropic wear resistance with 100-fold discrepancy in a copper matrix laminated composite with only 0.2 vol% graphene. <i>Acta Materialia</i> , 2021 , 215, 117092 | 8.4 | 9 |
| 583 | Microstructural characteristics and mechanical behavior of SiC(CNT)/Al multiphase interfacial micro-zones via molecular dynamics simulations. <i>Composites Part B: Engineering</i> , 2021 , 220, 108996 | 10 | 7 |
| 582 | Fabrication, mechanical and thermal properties of copper coated graphite films reinforced copper matrix laminated composites via ultrasonic-assisted electroless plating and vacuum hot-pressing sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 881, 141768 | 5.3 | 6 |
| 581 | Biomimetic Photonic Multiform Composite for High-Performance Radiative Cooling. <i>Advanced Optical Materials</i> , 2021 , 9, 2101151 | 8.1 | 4 |
| 580 | Fabrication, mechanical and thermal behaviors of antiperovskite manganese nitride Mn3.1Zn0.5Sn0.4N reinforced aluminum matrix composites. <i>Composites Part B: Engineering</i> , 2021 , 223, 109080 | 10 | 5 |
| 579 | Co-doping silver and iron on graphitic carbon nitride-carrageenan nanocomposite for the photocatalytic process, rapidly colorimetric detection and antibacterial properties. <i>Surfaces and Interfaces</i> , 2021 , 26, 101279 | 4.1 | 11 |
| 578 | Strength-conductivity synergy in cold-drawn reduced graphene oxide (RGO)-aluminum composite wires for electrical applications. <i>Materials and Design</i> , 2021 , 209, 109951 | 8.1 | 4 |
| 577 | Auxetic interpenetrating composites: A new approach to non-porous materials with a negative or zero Poisson's ratio. <i>Composite Structures</i> , 2020 , 243, 112195 | 5.3 | 5 |
| 576 | Effect of overlapping region on double-sided friction stir welded joint of 120 mm ultra-thick SiCp/Al composite plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 782, 139238 | 5.3 | 11 |

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| 575 | Bulk nanolaminated graphene (reduced graphene oxide)/aluminum composite tolerant of radiation damage. <i>Acta Materialia</i> , 2020 , 196, 17-29 | 8.4 | 20 |
| 574 | A Scalable Nickel-Cellulose Hybrid Metamaterial with Broadband Light Absorption for Efficient Solar Distillation. <i>Advanced Materials</i> , 2020 , 32, e1907975 | 24 | 36 |
| 573 | The mechanisms and environmental implications of engineered nanoparticles dispersion. <i>Science of the Total Environment</i> , 2020 , 722, 137781 | 10.2 | 8 |
| 572 | First-principles investigation of interfacial stability, mechanical behavior and failure mechanism of SiC(111)/Al(111) interfaces. <i>Computational Materials Science</i> , 2020 , 175, 109608 | 3.2 | 9 |
| 571 | Effect of Al ₂ O ₃ coating thickness on microstructural characterization and mechanical properties of continuous carbon fiber reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139839 | 5.3 | 18 |
| 570 | 3D Interconnected Gyroid Au-CuS Materials for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34837-34847 | 9.5 | 29 |
| 569 | Ultralight, flexible carbon hybrid aerogels from bacterial cellulose for strong microwave absorption. <i>Carbon</i> , 2020 , 162, 283-291 | 10.4 | 36 |
| 568 | Governing the Inclination Angle of Graphite Flakes in the Graphite Flake/Al Composites by Controlling the Al Particle Size via Flake Powder Metallurgy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 649-658 | 2.5 | 2 |
| 567 | Metal-graphene interfaces in epitaxial and bulk systems: A review. <i>Progress in Materials Science</i> , 2020 , 110, 100652 | 42.2 | 62 |
| 566 | Achieving Rich and Active Alkaline Hydrogen Evolution Heterostructures via Interface Engineering on 2D 1T-MoS ₂ Quantum Sheets. <i>Advanced Functional Materials</i> , 2020 , 30, 2000551 | 15.6 | 46 |
| 565 | Simultaneous enhancement of strength and ductility with nano dispersoids in nano and ultrafine grain metals: a brief review. <i>Reviews on Advanced Materials Science</i> , 2020 , 59, 352-360 | 4.8 | 9 |
| 564 | Superior photothermal black TiO ₂ with random size distribution as flexible film for efficient solar steam generation. <i>Applied Materials Today</i> , 2020 , 20, 100669 | 6.6 | 15 |
| 563 | Enhanced through-plane thermal conductivity and mechanical properties of vertically aligned graphene nanoplatelet/graphite flakes reinforced aluminum composites. <i>Diamond and Related Materials</i> , 2020 , 108, 107929 | 3.5 | 7 |
| 562 | Hierarchical anti-reflective laser-induced periodic surface structures (LIPSSs) on amorphous Si films for sensing applications. <i>Nanoscale</i> , 2020 , 12, 13431-13441 | 7.7 | 25 |
| 561 | Reaction-free interface promoting strength-ductility balance in graphene nanosheet/Al composites. <i>Carbon</i> , 2020 , 158, 449-455 | 10.4 | 32 |
| 560 | Nucleation and growth mechanisms of interfacial carbide in graphene nanosheet/Al composites. <i>Carbon</i> , 2020 , 161, 17-24 | 10.4 | 25 |
| 559 | Microstructural characterization, mechanical properties and thermal expansion of antiperovskite manganese nitride Mn _{3.1} Zn _{0.5} Sn _{0.4} N fabricated by combining vacuum sintering and spark-plasma sintering. <i>Materials Characterization</i> , 2020 , 160, 110100 | 3.9 | 4 |
| 558 | 3D-Structured Carbonized Sunflower Heads for Improved Energy Efficiency in Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2171-2179 | 9.5 | 85 |

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|-----|--|------|-----|
| 557 | Impact of alumina content and morphology on the mechanical properties of bulk nanolaminated Al ₂ O ₃ -Al composites. <i>Composites Communications</i> , 2020 , 22, 100462 | 6.7 | 7 |
| 556 | Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Z-Scheme Heterojunction for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2020 , 32, e2002486 | 24 | 15 |
| 555 | Interface-dominated mechanical behavior in advanced metal matrix composites. <i>Nano Materials Science</i> , 2020 , 2, 66-71 | 10.2 | 6 |
| 554 | Naturally safe: Cellular noise for document security. <i>Journal of Biophotonics</i> , 2019 , 12, e201900218 | 3.1 | 2 |
| 553 | Interface-induced strain hardening of graphene nanosheet/aluminum composites. <i>Carbon</i> , 2019 , 146, 17-27 | 10.4 | 60 |
| 552 | Enhanced load transfer by designing mechanical interfacial bonding in carbon nanotube reinforced aluminum composites. <i>Carbon</i> , 2019 , 146, 155-161 | 10.4 | 44 |
| 551 | Strengthening and deformation mechanisms in nanolaminated graphene-Al composite micro-pillars affected by graphene in-plane sizes. <i>International Journal of Plasticity</i> , 2019 , 116, 265-279 | 7.6 | 41 |
| 550 | Artificial ceramic diatoms with multiscale photonic architectures via nanoimprint lithography for CO ₂ photoreduction. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4678-4687 | 3.8 | 7 |
| 549 | Nanoprobe-based force spectroscopy as a versatile platform for probing the mechanical adhesion of bacteria. <i>Nanoscale</i> , 2019 , 11, 7648-7655 | 7.7 | 3 |
| 548 | Strain Rate Sensitivity and Deformation Mechanism of Carbon Nanotubes Reinforced Aluminum Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 3544-3554 | 2.3 | 7 |
| 547 | Microstructure-based modeling on structure-mechanical property relationships in carbon nanotube/aluminum composites. <i>International Journal of Plasticity</i> , 2019 , 120, 278-295 | 7.6 | 25 |
| 546 | Fluorine-free Ti ₃ C ₂ T _x (T = O, OH) nanosheets (~50–100 nm) for nitrogen fixation under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14462-14465 | 13 | 50 |
| 545 | Heat treatment behavior and strengthening mechanisms of CNT/6061Al composites fabricated by flake powder metallurgy. <i>Materials Characterization</i> , 2019 , 153, 261-270 | 3.9 | 16 |
| 544 | In situ synthesis of BiOCl nanosheets on three-dimensional hierarchical structures for efficient photocatalysis under visible light. <i>Nanoscale</i> , 2019 , 11, 10203-10208 | 7.7 | 23 |
| 543 | Densely integrated Co, N-Codoped Graphene@Carbon nanotube porous hybrids for high-performance lithium-sulfur batteries. <i>Carbon</i> , 2019 , 149, 750-759 | 10.4 | 29 |
| 542 | A NiCo ₂ S ₄ /hierarchical porous carbon for high performance asymmetrical supercapacitor. <i>Journal of Power Sources</i> , 2019 , 427, 138-144 | 8.9 | 54 |
| 541 | Simultaneously achieving thermal insulation and rapid water transport in sugarcane stems for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9034-9039 | 13 | 102 |
| 540 | Biomimetic Superstructures Assembled from Au Nanostars and Nanospheres for Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900003 | 5.9 | 23 |

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|-----|---|------|-----|
| 539 | Discharge and densification in the spark plasma sintering of quasicrystal particles. <i>Journal of Materials Science</i> , 2019 , 54, 8727-8742 | 4.3 | 2 |
| 538 | Large-Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles. <i>Small</i> , 2019 , 15, e1805308 | 11 | 8 |
| 537 | Mapping thermal radiation in plasmonic structures. <i>Chemical Physics</i> , 2019 , 526, 110423 | 2.3 | 3 |
| 536 | Electrochemical determination of urinary dopamine from neuroblastoma patients based on Cu nanoplates encapsulated by alginate-derived carbon. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 853, 113560 | 4.1 | 5 |
| 535 | Ultrahigh Electrical Conductivity of Graphene Embedded in Metals. <i>Advanced Functional Materials</i> , 2019 , 29, 1806792 | 15.6 | 61 |
| 534 | Decorating Ag ₃ PO ₄ nanodots on mesoporous silica-functionalized NaYF ₄ :Yb,Tm@NaLuF ₄ for efficient sunlight-driven photocatalysis: synergy of broad spectrum absorption and pollutant adsorption-enrichment. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 3529-3538 | 6.8 | 5 |
| 533 | Synthesis and Applications of Porous Glass. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2019 , 24, 681-698 | 0.6 | 3 |
| 532 | Thermal properties of in situ grown graphene reinforced copper matrix laminated composites. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 228-237 | 5.7 | 45 |
| 531 | Uniform Spherical Graphene/Monocrystal-Copper Powder Fabricated by the Low Wettability of Liquid/Solid Interface. <i>KONA Powder and Particle Journal</i> , 2019 , 36, 224-231 | 3.4 | |
| 530 | Facile green synthesis of 3D nano-pyramids Cu/Carbon hybrid sensor electrode materials for simultaneous monitoring of phenolic compounds. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 617-625 | 8.5 | 21 |
| 529 | Interfacial Effect on the Deformation Mechanism of Bulk Nanolaminated Graphene-Al Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1113-1118 | 2.3 | 17 |
| 528 | Enhanced corrosion resistance in metal matrix composites assembled from graphene encapsulated copper nanoflakes. <i>Carbon</i> , 2019 , 142, 482-490 | 10.4 | 35 |
| 527 | Synergetic pore structure optimization and nitrogen doping of 3D porous graphene for high performance lithium sulfur battery. <i>Carbon</i> , 2019 , 143, 869-877 | 10.4 | 33 |
| 526 | Effect of thermal cycling on the mechanical properties of carbon nanotubes reinforced copper matrix nanolaminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 132-139 | 5.3 | 11 |
| 525 | Micron-sized encapsulated-type MoS ₂ /C hybrid particulates with an effective confinement effect for improving the cycling performance of LIB anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6289-6298 | 13 | 14 |
| 524 | Local Bi-O bonds correlated with infrared emission properties in triply doped GdYbBiErGaO via temperature-dependent Raman spectra and x-ray absorption fine structure analysis. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 125901 | 1.8 | 1 |
| 523 | AgBr/diatomite for the efficient visible-light-driven photocatalytic degradation of Rhodamine B. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1 | 2.3 | 4 |
| 522 | Generalized 3D Printing of Graphene-Based Mixed-Dimensional Hybrid Aerogels. <i>ACS Nano</i> , 2018 , 12, 3502-3511 | 16.7 | 135 |

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|-----|---|------|-----|
| 521 | Fluorine-Free Synthesis of High-Purity Ti C T (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6115-6119 | 16.4 | 387 |
| 520 | Strain-rate dependent deformation mechanism of graphene-Al nanolaminated composites studied using micro-pillar compression. <i>International Journal of Plasticity</i> , 2018 , 105, 128-140 | 7.6 | 63 |
| 519 | Effect of interfacial reaction on Young's modulus in CNT/Al nanocomposite: A quantitative analysis. <i>Materials Characterization</i> , 2018 , 137, 84-90 | 3.9 | 13 |
| 518 | Effect of alumina coating and extrusion deformation on microstructures and thermal properties of short carbon fibre/Al composites. <i>Bulletin of Materials Science</i> , 2018 , 41, 1 | 1.7 | 9 |
| 517 | Enhanced thermal conductivity of diamond/aluminum composites through tuning diamond particle dispersion. <i>Journal of Materials Science</i> , 2018 , 53, 6602-6612 | 4.3 | 10 |
| 516 | Design of an efficient flake powder metallurgy route to fabricate CNT/6061Al composites. <i>Materials and Design</i> , 2018 , 142, 288-296 | 8.1 | 53 |
| 515 | Extreme rejuvenation and softening in a bulk metallic glass. <i>Nature Communications</i> , 2018 , 9, 560 | 17.4 | 119 |
| 514 | Highly sensitive, reproducible and uniform SERS substrates with a high density of three-dimensionally distributed hotspots: gyroid-structured Au periodic metallic materials. <i>NPG Asia Materials</i> , 2018 , 10, e462-e462 | 10.3 | 40 |
| 513 | 3D Printing of Artificial Leaf with Tunable Hierarchical Porosity for CO ₂ Photoreduction. <i>Chemistry of Materials</i> , 2018 , 30, 799-806 | 9.6 | 50 |
| 512 | Correlating micro-pillar compression behavior with bulk mechanical properties: Nanolaminated graphene-Al composite as a case study. <i>Scripta Materialia</i> , 2018 , 146, 236-240 | 5.6 | 16 |
| 511 | Enhanced interfacial bonding and mechanical properties in CNT/Al composites fabricated by flake powder metallurgy. <i>Carbon</i> , 2018 , 130, 333-339 | 10.4 | 81 |
| 510 | Young's Modulus Enhancement and Measurement in CNT/Al Nanocomposites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 1121-1129 | 2.5 | 6 |
| 509 | Indentation-Enabled In Situ Mechanical Characterization of Micro/Nanopillars in Electron Microscopes. <i>Jom</i> , 2018 , 70, 487-493 | 2.1 | 1 |
| 508 | Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. <i>ChemCatChem</i> , 2018 , 10, 62-123 | 5.2 | 32 |
| 507 | Highly sensitive and rapidly responding room-temperature NO ₂ gas sensors based on WO ₃ nanorods/sulfonated graphene nanocomposites. <i>Nano Research</i> , 2018 , 11, 791-803 | 10 | 76 |
| 506 | Grain boundary-assisted deformation in graphene/Al nanolaminated composite micro-pillars. <i>Materials Research Letters</i> , 2018 , 6, 41-48 | 7.4 | 21 |
| 505 | Microstructure evolution and superelasticity of layer-like NiTiNb porous metal prepared by eutectic reaction. <i>Acta Materialia</i> , 2018 , 143, 214-226 | 8.4 | 46 |
| 504 | Enhanced photocatalytic hydrogen production on three-dimensional gold butterfly wing scales/CdS nanoparticles. <i>Applied Surface Science</i> , 2018 , 427, 807-812 | 6.7 | 12 |

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|-----|--|------|----|
| 503 | Graphene quality dominated interface deformation behavior of graphene-metal composite: The defective is better. <i>International Journal of Plasticity</i> , 2018 , 111, 253-265 | 7.6 | 28 |
| 502 | Ordering of Hollow Ag-Au Nanospheres with Butterfly Wings as a Bio-template. <i>Scientific Reports</i> , 2018 , 8, 9261 | 4.9 | 8 |
| 501 | Hot Deformation Behavior and Processing Maps of Diamond/Cu Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 2202-2212 | 2.3 | 2 |
| 500 | Germanium-dioxide periodic nanostructure from inverse replication of butterfly wings. <i>Materials Letters</i> , 2018 , 227, 55-57 | 3.3 | 2 |
| 499 | TEM characterization on microstructure of Ti ₃ Al ₂ V/Ag nanocomposite formed by friction stir processing. <i>Materialia</i> , 2018 , 3, 139-144 | 3.2 | 19 |
| 498 | Two-Dimensional Nanosheets by Rapid and Efficient Microwave Exfoliation of Layered Materials. <i>Chemistry of Materials</i> , 2018 , 30, 5932-5940 | 9.6 | 45 |
| 497 | Orientation-Dependent Tensile Behavior of Nanolaminated Graphene-Al Composites: An In Situ Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 5229-5234 | 2.3 | 7 |
| 496 | Optical Performance Study of Gyroid-Structured TiO ₂ Photonic Crystals Replicated from Natural Templates Using a Sol-Gel Method. <i>Advanced Optical Materials</i> , 2018 , 6, 1800064 | 8.1 | 8 |
| 495 | Superexchange interaction contribution to the Zeeman splitting of the intra-4f-shell luminescence band in Gd ₃ Ga ₄ FeO ₁₂ : Yb ³⁺ , Er ³⁺ . <i>Optical Materials Express</i> , 2018 , 8, 3338 | 2.6 | 4 |
| 494 | N-doped catalytic graphitized hard carbon for high-performance lithium/sodium-ion batteries. <i>Scientific Reports</i> , 2018 , 8, 9934 | 4.9 | 34 |
| 493 | Particle size effect on the interfacial properties of SiC particle-reinforced Al-Cu-Mg composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 711, 643-649 | 5.3 | 54 |
| 492 | Bio-Inspired Photonic Materials: Prototypes and Structural Effect Designs for Applications in Solar Energy Manipulation. <i>Advanced Functional Materials</i> , 2018 , 28, 1705309 | 15.6 | 82 |
| 491 | Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated via Electrochemical Li Intercalation. <i>ACS Nano</i> , 2018 , 12, 308-316 | 16.7 | 80 |
| 490 | Composite structural modeling and tensile mechanical behavior of graphene reinforced metal matrix composites. <i>Science China Materials</i> , 2018 , 61, 112-124 | 7.1 | 30 |
| 489 | Back stress in strain hardening of carbon nanotube/aluminum composites. <i>Materials Research Letters</i> , 2018 , 6, 113-120 | 7.4 | 47 |
| 488 | Reversible thermochromic response based on photonic crystal structure in butterfly wing. <i>Nanophotonics</i> , 2018 , 7, 217-227 | 6.3 | 13 |
| 487 | Influences of Interfaces on Dynamic Recrystallization and Texture Evolution During Hot Rolling of Graphene Nanoribbon/Cu Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 6401-6415 | 2.3 | 1 |
| 486 | Architected Leaf-Inspired Ni _{0.33} Co _{0.66} S ₂ /Graphene Aerogels via 3D Printing for High-Performance Energy Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1805057 | 15.6 | 43 |

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|-----|---|------|-----|
| 485 | Hierarchical Porous Carbonized Lotus Seedpods for Highly Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2018 , 30, 6217-6221 | 9.6 | 126 |
| 484 | Regain Strain-Hardening in High-Strength Metals by Nanofiller Incorporation at Grain Boundaries. <i>Nano Letters</i> , 2018 , 18, 6255-6264 | 11.5 | 46 |
| 483 | Enhanced mechanical properties and high electrical conductivity in multiwalled carbon nanotubes reinforced copper matrix nanolaminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 452-457 | 5.3 | 27 |
| 482 | High-strength CNT/Al-Zn-Mg-Cu composites with improved ductility achieved by flake powder metallurgy via elemental alloying. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 111, 1-11 | 8.4 | 36 |
| 481 | Three-Dimensional CdS/Au Butterfly Wing Scales with Hierarchical Rib Structures for Plasmon-Enhanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19649-19655 | 9.5 | 32 |
| 480 | Photonic-structured fibers assembled from cellulose nanocrystals with tunable polarized selective reflection. <i>Nanotechnology</i> , 2018 , 29, 325604 | 3.4 | 8 |
| 479 | Patterned Carbon NitrideBased Hybrid Aerogel Membranes via 3D Printing for Broadband Solar Wastewater Remediation. <i>Advanced Functional Materials</i> , 2018 , 28, 1801121 | 15.6 | 65 |
| 478 | Tailoring the structure and mechanical properties of graphene nanosheet/aluminum composites by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 111, 73-82 | 8.4 | 73 |
| 477 | Effects of extrusion ratio on microstructural evolution and mechanical behavior of in situ synthesized Ti-6Al-4V composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 155-163 | 5.3 | 25 |
| 476 | A chiral smectic structure assembled from nanosheets and nanorods. <i>Chemical Communications</i> , 2017 , 53, 1868-1871 | 5.8 | 23 |
| 475 | Tumor marker detection using surface enhanced Raman spectroscopy on 3D Au butterfly wings. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1594-1600 | 7.3 | 32 |
| 474 | Enhanced dislocation obstruction in nanolaminated graphene/Cu composite as revealed by stress relaxation experiments. <i>Scripta Materialia</i> , 2017 , 131, 67-71 | 5.6 | 52 |
| 473 | Balanced strength and ductility in CNT/Al composites achieved by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 96, 57-66 | 8.4 | 136 |
| 472 | Effects of carbon nanotube content on morphology of SiCp(CNT) hybrid reinforcement and tensile mechanical properties of SiCp(CNT)/Al composites. <i>Journal of Materials Research</i> , 2017 , 32, 1239-1247 | 2.5 | 5 |
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