

Wang 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.

114
papers

4,160
citations

33
h-index

61
g-index

119
ext. papers

5,020
ext. citations

8.7
avg, IF

5.48
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 114 | A bioinspired broadband self-powered photodetector based on photo-pyroelectric-thermoelectric effect able to detect human radiation. <i>Nano Energy</i> , 2022 , 93, 106812 | 17.1 | 8 |
| 113 | Photothermal enhancement of highly efficient photocatalysis with bioinspired thermal radiation balance characteristics. <i>Applied Surface Science</i> , 2022 , 153304 | 6.7 | 1 |
| 112 | An integrated photothermal-photocatalytic materials for efficient photocatalytic performance boosting by synergistic photothermally. <i>Applied Surface Science</i> , 2022 , 153382 | 6.7 | 2 |
| 111 | Two-dimensional quantum-sheet films with sub-1.2 nm channels for ultrahigh-rate electrochemical capacitance. <i>Nature Nanotechnology</i> , 2021 , | 28.7 | 6 |
| 110 | A bioinspired Au-CuS/CuS film with efficient low-angle-dependent and thermal-assisted photodetection properties. <i>IScience</i> , 2021 , 24, 102167 | 6.1 | 4 |
| 109 | Sulfonic-Group-Grafted TiCT MXene: A Silver Bullet to Settle the Instability of Polyaniline toward High-Performance Zn-Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 9065-9075 | 16.7 | 22 |
| 108 | Butterfly wing architectures inspire sensor and energy applications. <i>National Science Review</i> , 2021 , 8, nwaa107 | 10.8 | 9 |
| 107 | Photothermal-assist enhanced high-performance self-powered photodetector with bioinspired temperature-autoregulation by passive radiative balance. <i>Nano Energy</i> , 2021 , 79, 105435 | 17.1 | 7 |
| 106 | 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 |
| 105 | Construction of a Bioinspired Hierarchical BiVO/BiOCl Heterojunction and Its Enhanced Photocatalytic Activity for Phenol Degradation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32906-32915 | 9.5 | 22 |
| 104 | A bioinspired switchable selective infrared solar absorber by tunable optical coupling. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4150-4157 | 7.1 | 3 |
| 103 | Biotemplated g-CN/Au Periodic Hierarchical Structures for the Enhancement of Photocatalytic CO Reduction with Localized Surface Plasmon Resonance. <i>ACS Applied Materials & Interfaces</i> , 2021 , | 9.5 | 5 |
| 102 | Chemistry and morphology of the pygidial glands in four Pterostichini ground beetle taxa (Coleoptera: Carabidae: Pterostichinae). <i>Zoology</i> , 2020 , 142, 125772 | 1.7 | 4 |
| 101 | 3D Interconnected Gyroid Au-CuS Materials for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34837-34847 | 9.5 | 29 |
| 100 | Ultralight, flexible carbon hybrid aerogels from bacterial cellulose for strong microwave absorption. <i>Carbon</i> , 2020 , 162, 283-291 | 10.4 | 36 |
| 99 | Pygidial gland secretions of <i>Carabus</i> Linnaeus, 1758 (Coleoptera: Carabidae): chemicals released by three species. <i>Chemoecology</i> , 2020 , 30, 59-68 | 2 | 4 |
| 98 | 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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| 97 | Microstructures of responsive photonic crystals on the stimuli-responsive performance: Effects and simulation. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127421 | 8.5 | 4 |
| 96 | A flower-inspired divergent light-trapping structure with quasi-spherical symmetry towards a high-performance flexible photodetector. <i>Nanoscale</i> , 2020 , 12, 20898-20907 | 7.7 | 6 |
| 95 | Bioinspired multilevel interconnected networks with porous multiwalled nanotubes built by heterogeneous nanocrystallites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 604-613 | 3.8 | 1 |
| 94 | Naturally safe: Cellular noise for document security. <i>Journal of Biophotonics</i> , 2019 , 12, e201900218 | 3.1 | 2 |
| 93 | Fluorine-free Ti ₃ C ₂ T _x (T = O, OH) nanosheets (~500 nm) for nitrogen fixation under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14462-14465 | 13 | 50 |
| 92 | 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 |
| 91 | 3D Assembly: Large-Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles (Small 18/2019). <i>Small</i> , 2019 , 15, 1970096 | 11 | |
| 90 | Biomimetic Superstructures Assembled from Au Nanostars and Nanospheres for Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900003 | 5.9 | 23 |
| 89 | Biocompatible, small-sized and well-dispersed gold nanoparticles regulated by silk fibroin fiber from Bombyx mori cocoons. <i>Frontiers of Materials Science</i> , 2019 , 13, 126-132 | 2.5 | 4 |
| 88 | Large-Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles. <i>Small</i> , 2019 , 15, e1805308 | 11 | 8 |
| 87 | A highly sensitive gas sensor employing biomorphic SnO with multi-level tubes/pores structure: bio-templated from waste of flax.. <i>RSC Advances</i> , 2019 , 9, 19993-20001 | 3.7 | 10 |
| 86 | Mapping thermal radiation in plasmonic structures. <i>Chemical Physics</i> , 2019 , 526, 110423 | 2.3 | 3 |
| 85 | 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 |
| 84 | Recent development of biomass-derived carbons and composites as electrode materials for supercapacitors. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2543-2570 | 7.8 | 79 |
| 83 | Synthesis and Applications of Porous Glass. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2019 , 24, 681-698 | 0.6 | 3 |
| 82 | Facilely 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 |
| 81 | 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 |
| 80 | Bioinspired Engineering of Photothermal Materials 2018 , 99-128 | | |

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| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | High-Sensitivity Light Detection via Gate Tuning of Organometallic Perovskite/PCBM Bulk Heterojunctions on Ferroelectric PBLaZrTiO Gated Graphene Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12824-12830 | 9.5 | 14 |
| 75 | 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 |
| 74 | Ordering of Hollow Ag-Au Nanospheres with Butterfly Wings as a Bio-template. <i>Scientific Reports</i> , 2018 , 8, 9261 | 4.9 | 8 |
| 73 | Germanium-dioxide periodic nanostructure from inverse replication of butterfly wings. <i>Materials Letters</i> , 2018 , 227, 55-57 | 3.3 | 2 |
| 72 | 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 |
| 71 | N-doped catalytic graphitized hard carbon for high-performance lithium/sodium-ion batteries. <i>Scientific Reports</i> , 2018 , 8, 9934 | 4.9 | 34 |
| 70 | Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated via Electrochemical Li Intercalation. <i>ACS Nano</i> , 2018 , 12, 308-316 | 16.7 | 80 |
| 69 | Reversible thermochromic response based on photonic crystal structure in butterfly wing. <i>Nanophotonics</i> , 2018 , 7, 217-227 | 6.3 | 13 |
| 68 | Hierarchical Porous Carbonized Lotus Seedpods for Highly Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2018 , 30, 6217-6221 | 9.6 | 126 |
| 67 | 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 |
| 66 | 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 |
| 65 | Angle-independent pH-sensitive composites with natural gyroid structure. <i>Scientific Reports</i> , 2017 , 7, 42207 | 4.9 | 9 |
| 64 | A low-cost, high-efficiency light absorption structure inspired by the Papilio ulysses butterfly. <i>RSC Advances</i> , 2017 , 7, 22749-22756 | 3.7 | 11 |
| 63 | Fabrication of Sensor Materials Inspired by Butterfly Wings. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600209 | 6.8 | 18 |
| 62 | Ag/diatomite for highly efficient solar vapor generation under one-sun irradiation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17817-17821 | 13 | 101 |

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| 61 | The highly efficient photocatalytic and light harvesting property of Ag-TiO with negative nano-holes structure inspired from cicada wings. <i>Scientific Reports</i> , 2017 , 7, 17277 | 4.9 | 19 |
| 60 | Self-crosslink assisted synthesis of 3D porous branch-like Fe ₃ O ₄ /C hybrids for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 50307-50316 | 3.7 | 19 |
| 59 | Facile Self-Cross-Linking Synthesis of 3D Nanoporous Co ₃ O ₄ /Carbon Hybrid Electrode Materials for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16035-44 | 9.5 | 53 |
| 58 | Bioinspired Multifunctional Paper-Based rGO Composites for Solar-Driven Clean Water Generation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14628-36 | 9.5 | 187 |
| 57 | Light-Driven Overall Water Splitting Enabled by a Photo-Dember Effect Realized on 3D Plasmonic Structures. <i>ACS Nano</i> , 2016 , 10, 6693-701 | 16.7 | 34 |
| 56 | Optical Functional Materials Inspired by Biology. <i>Advanced Optical Materials</i> , 2016 , 4, 195-224 | 8.1 | 54 |
| 55 | Surface plasmon resonance of gold nanocrystals coupled with slow-photon-effect of biomorphic TiO ₂ photonic crystals for enhanced photocatalysis under visible-light. <i>Catalysis Today</i> , 2016 , 274, 15-21 | 5.3 | 25 |
| 54 | Angle dependent antireflection property of TiO ₂ inspired by cicada wings. <i>Applied Physics Letters</i> , 2016 , 109, 153701 | 3.4 | 16 |
| 53 | Photocatalyst of organic pollutants decomposition: TiO ₂ /glass fiber cloth composites. <i>Catalysis Today</i> , 2016 , 274, 2-7 | 5.3 | 23 |
| 52 | Hierarchical photonic structured stimuli-responsive materials as high-performance colorimetric sensors. <i>Nanoscale</i> , 2016 , 8, 10316-22 | 7.7 | 26 |
| 51 | Bio-templated germanium photonic crystals by a facile liquid phase deposition process. <i>RSC Advances</i> , 2016 , 6, 73156-73159 | 3.7 | 3 |
| 50 | A facile low-temperature synthesis of highly distributed and size-tunable cobalt oxide nanoparticles anchored on activated carbon for supercapacitors. <i>Journal of Power Sources</i> , 2015 , 273, 945-953 | 8.9 | 45 |
| 49 | Microwave-assisted anchoring of flowerlike Co(OH) ₂ nanosheets on activated carbon to prepare hybrid electrodes for high-rate electrochemical capacitors. <i>Electrochimica Acta</i> , 2015 , 170, 328-336 | 6.7 | 29 |
| 48 | Infrared-induced variation of the magnetic properties of a magnetoplasmonic film with a 3D sub-micron periodic triangular roof-type antireflection structure. <i>Scientific Reports</i> , 2015 , 5, 8025 | 4.9 | 7 |
| 47 | A highly sensitive room temperature H ₂ S gas sensor based on SnO ₂ multi-tube arrays bio-templated from insect bristles. <i>Dalton Transactions</i> , 2015 , 44, 7911-6 | 4.3 | 39 |
| 46 | "Egg-Box"-Assisted Fabrication of Porous Carbon with Small Mesopores for High-Rate Electric Double Layer Capacitors. <i>ACS Nano</i> , 2015 , 9, 11225-33 | 16.7 | 242 |
| 45 | Bioinspired Thermo-responsive Photonic Polymers with Hierarchical Structures and Their Unique Properties. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1722-8 | 4.8 | 13 |
| 44 | Bioinspired Au@CuS coupled photothermal materials: enhanced infrared absorption and photothermal conversion from butterfly wings. <i>Nano Energy</i> , 2015 , 17, 52-62 | 17.1 | 43 |

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| 43 | Freeze-drying assisted synthesis of hierarchical porous carbons for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21016-21022 | 13 | 28 |
| 42 | Coupling of plasmon and 3D antireflection quasi-photonic crystal structure for enhancement infrared absorption. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1672-1679 | 7.1 | 22 |
| 41 | Inspiration from butterfly and moth wing scales: Characterization, modeling, and fabrication. <i>Progress in Materials Science</i> , 2015 , 68, 67-96 | 42.2 | 59 |
| 40 | Morphology genetic materials templated from natural species. <i>Advanced Materials</i> , 2015 , 27, 464-78 | 24 | 63 |
| 39 | Engineering Gyroid-Structured Functional Materials via Templates Discovered in Nature and in the Lab. <i>Small</i> , 2015 , 11, 5004-22 | 11 | 33 |
| 38 | Hydrothermal Synthesis Au-Bi ₂ Te ₃ Nanocomposite Thermoelectric Film with a Hierarchical Sub-Micron Antireflection Quasi-Periodic Structure. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 12547-59 | 6.3 | 3 |
| 37 | Photonic structure arrays generated using butterfly wing scales as biological units. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1743-1747 | 7.3 | 4 |
| 36 | Infrared detection based on localized modification of Morpho butterfly wings. <i>Advanced Materials</i> , 2015 , 27, 1077-82 | 24 | 74 |
| 35 | Spectral selectivity of 3D magnetophotonic crystal film fabricated from single butterfly wing scales. <i>Nanoscale</i> , 2014 , 6, 6133-40 | 7.7 | 13 |
| 34 | A 3D hierarchical hybrid nanostructure of carbon nanotubes and activated carbon for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3505 | 13 | 33 |
| 33 | Butterfly effects: novel functional materials inspired from the wings scales. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19767-80 | 3.6 | 32 |
| 32 | Omnidirectional light absorption of disordered nano-hole structure inspired from Papilio ulysses. <i>Optics Letters</i> , 2014 , 39, 4208-11 | 3 | 19 |
| 31 | Single porous SnO ₂ microtubes templated from Papilio maacki bristles: new structure towards superior gas sensing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4543-4550 | 13 | 43 |
| 30 | Metal-organic frameworks reactivate deceased diatoms to be efficient CO ₂ absorbents. <i>Advanced Materials</i> , 2014 , 26, 1229-34 | 24 | 33 |
| 29 | Demonstration of higher colour response with ambient refractive index in Papilio blumei as compared to Morpho rhetenor. <i>Scientific Reports</i> , 2014 , 4, 5591 | 4.9 | 20 |
| 28 | Biomimetic fabrication of WO ₃ for water splitting under visible light with high performance. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 10 |
| 27 | Highly porous graphitic materials prepared by catalytic graphitization. <i>Carbon</i> , 2013 , 64, 132-140 | 10.4 | 92 |
| 26 | One step fabrication of C-doped BiVO ₄ with hierarchical structures for a high-performance photocatalyst under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8367 | 13 | 128 |

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| 25 | Fabrication of Fe-wings used for micro imprinting with a natural butterfly wing structure by in situ carbothermic reduction. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1673-1677 | 7.3 | 13 |
| 24 | Bioinspired fabrication of hierarchically structured, pH-tunable photonic crystals with unique transition. <i>ACS Nano</i> , 2013 , 7, 4911-8 | 16.7 | 91 |
| 23 | Efficient photochemical hydrogen production under visible-light over artificial photosynthetic systems. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 8639-8647 | 6.7 | 9 |
| 22 | Large-visual-angle microstructure inspired from quantitative design of Morpho butterflies lamellae deviation using the FDTD/PSO method. <i>Optics Letters</i> , 2013 , 38, 169-71 | 3 | 14 |
| 21 | Design of a structure with low incident and viewing angle dependence inspired by Morpho butterflies. <i>Scientific Reports</i> , 2013 , 3, 3427 | 4.9 | 18 |
| 20 | Novel Ag decorated biomorphic SnO ₂ inspired by natural 3D nanostructures as SERS substrates. <i>Materials Letters</i> , 2012 , 74, 43-45 | 3.3 | 17 |
| 19 | Optical characters measurement and simulation of 2D cross grating microstructures of butterfly wings. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1647-1653 | 1.7 | 2 |
| 18 | High-Density Hotspots Engineered by Naturally Piled-Up Subwavelength Structures in Three-Dimensional Copper Butterfly Wing Scales for Surface-Enhanced Raman Scattering Detection. <i>Advanced Functional Materials</i> , 2012 , 22, 1578-1585 | 15.6 | 103 |
| 17 | 3D Network Magnetophotonic Crystals Fabricated on Morpho Butterfly Wing Templates. <i>Advanced Functional Materials</i> , 2012 , 22, 2072-2080 | 15.6 | 81 |
| 16 | Photonic Crystals: 3D Network Magnetophotonic Crystals Fabricated on Morpho Butterfly Wing Templates (Adv. Funct. Mater. 10/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 2071-2071 | 15.6 | 3 |
| 15 | Morph-Genetic Materials Inspired from Butterfly Wing Scales. <i>Advanced Topics in Science and Technology in China</i> , 2012 , 75-122 | 0.2 | 1 |
| 14 | Tunable three-dimensional ZrO ₂ photonic crystals replicated from single butterfly wing scales. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15237 | | 23 |
| 13 | ZnO single butterfly wing scales: synthesis and spatial optical anisotropy. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6140 | | 33 |
| 12 | Tunable optical photonic devices made from moth wing scales: a way to enlarge natural functional structures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13913 | | 18 |
| 11 | Enhanced Light-Harvesting and Photocatalytic Properties in Morph-TiO ₂ from Green-Leaf Biotemplates. <i>Advanced Functional Materials</i> , 2009 , 19, 45-56 | 15.6 | 184 |
| 10 | Biosynthesis of cathodoluminescent zinc oxide replicas using butterfly (<i>Papilio paris</i>) wing scales as templates. <i>Materials Science and Engineering C</i> , 2009 , 29, 92-96 | 8.3 | 28 |
| 9 | Novel Photoanode Structure Templated from Butterfly Wing Scales. <i>Chemistry of Materials</i> , 2009 , 21, 33-40 | 9.6 | 182 |
| 8 | Embedment of ZnO nanoparticles in the natural photonic crystals within peacock feathers. <i>Nanotechnology</i> , 2008 , 19, 365602 | 3.4 | 16 |

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|---|--|------|----|
| 7 | Fabrication of ZnO microtubes with adjustable nanopores on the walls by the templating of butterfly wing scales. <i>Nanotechnology</i> , 2006 , 17, 840-844 | 3.4 | 85 |
| 6 | Biomimetic zinc oxide replica with structural color using butterfly (<i>Ideopsis similis</i>) wings as templates. <i>Bioinspiration and Biomimetics</i> , 2006 , 1, 89-95 | 2.6 | 58 |
| 5 | Morphosynthesis of hierarchical ZnO replica using butterfly wing scales as templates. <i>Microporous and Mesoporous Materials</i> , 2006 , 92, 227-233 | 5.3 | 63 |
| 4 | The synthesis of hierarchical porous iron oxide with wood templates. <i>Microporous and Mesoporous Materials</i> , 2005 , 85, 82-88 | 5.3 | 88 |
| 3 | High-Efficiency g-C ₃ N ₄ Based Photocatalysts for CO ₂ Reduction: Modification Methods. <i>Advanced Fiber Materials</i> ,1 | 10.9 | 4 |
| 2 | Understanding and modifications on lithium deposition in lithium metal batteries. <i>Rare Metals</i> ,1 | 5.5 | 2 |
| 1 | Optical Optimization with Microstructure Evolution Inspired from Lepidopteran Scales. <i>Advanced Optical Materials</i> ,2200710 | 8.1 | 0 |