

Xiao Zhang

List of Publications by Year in descending order

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195
papers

25,862
citations

9254

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6465

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all docs

203
docs citations

203
times ranked

28970
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331. | 23.0 | 3,940 |
| 2 | Low-temperature hydrogen production from water and methanol using Pt/±-MoC catalysts. <i>Nature</i> , 2017, 544, 80-83. | 13.7 | 1,090 |
| 3 | Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015, 27, 7372-7378. | 11.1 | 943 |
| 4 | High-Throughput Synthesis of Single-Layer MoS ₂ Nanosheets as a Near-Infrared Photothermal-Triggered Drug Delivery for Effective Cancer Therapy. <i>ACS Nano</i> , 2014, 8, 6922-6933. | 7.3 | 813 |
| 5 | Black Phosphorus Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3653-3657. | 7.2 | 594 |
| 6 | Synthesis of Two-Dimensional CoS _{1.097} /Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. <i>Journal of the American Chemical Society</i> , 2016, 138, 6924-6927. | 6.6 | 591 |
| 7 | A High-Rate and Stable Quasi-Solid-State Zinc-Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. <i>Advanced Materials</i> , 2018, 30, e1803181. | 11.1 | 571 |
| 8 | Solution-Processed Two-Dimensional MoS ₂ Nanosheets: Preparation, Hybridization, and Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8816-8838. | 7.2 | 557 |
| 9 | Graphene Quantum Dots Coated VO ₂ Arrays for Highly Durable Electrodes for Li and Na Ion Batteries. <i>Nano Letters</i> , 2015, 15, 565-573. | 4.5 | 493 |
| 10 | Dual Tuning of Ni-Co-A (A = P, Se, O) Nanosheets by Anion Substitution and Holey Engineering for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2018, 140, 5241-5247. | 6.6 | 461 |
| 11 | Solution-Processed Two-Dimensional Metal Dichalcogenide-Based Nanomaterials for Energy Storage and Conversion. <i>Advanced Materials</i> , 2016, 28, 6167-6196. | 11.1 | 438 |
| 12 | Phase engineering of nanomaterials. <i>Nature Reviews Chemistry</i> , 2020, 4, 243-256. | 13.8 | 438 |
| 13 | Three-Dimensional Architectures Constructed from Transition-Metal Dichalcogenide Nanomaterials for Electrochemical Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 626-646. | 7.2 | 398 |
| 14 | Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017, 29, 1700102. | 11.1 | 384 |
| 15 | In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516. | 11.1 | 375 |
| 16 | All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4566-4571. | 11.1 | 371 |
| 17 | Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO ₂ reduction. <i>Nature Energy</i> , 2020, 5, 684-692. | 19.8 | 365 |
| 18 | General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. <i>Nature Chemistry</i> , 2021, 13, 887-894. | 6.6 | 362 |

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|----|--|------|-----------|
| 19 | Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1705509. | 11.1 | 341 |
| 20 | One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016, 28, 8712-8717. | 11.1 | 336 |
| 21 | Hybrid Fibers Made of Molybdenum Disulfide, Reduced Graphene Oxide, and Multi-Walled Carbon Nanotubes for Solid-State, Flexible, Asymmetric Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4651-4656. | 7.2 | 334 |
| 22 | Single-Layer Transition Metal Dichalcogenide Nanosheet-Based Nanosensors for Rapid, Sensitive, and Multiplexed Detection of DNA. <i>Advanced Materials</i> , 2015, 27, 935-939. | 11.1 | 322 |
| 23 | Up-Conversion Cell Imaging and pH-Induced Thermally Controlled Drug Release from NaYF ₄ :Yb ³⁺ /Er ³⁺ @Hydrogel Core-Shell Hybrid Microspheres. <i>ACS Nano</i> , 2012, 6, 3327-3338. | 7.3 | 308 |
| 24 | Novel structured transition metal dichalcogenide nanosheets. <i>Chemical Society Reviews</i> , 2018, 47, 3301-3338. | 18.7 | 303 |
| 25 | Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. <i>Advanced Materials</i> , 2018, 30, e1706347. | 11.1 | 297 |
| 26 | Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018, 1, 460-468. | 16.1 | 247 |
| 27 | Smart MoS ₂ /Fe ₃ O ₄ Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. <i>Theranostics</i> , 2015, 5, 931-945. | 4.6 | 234 |
| 28 | Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016, 30, 368-378. | 8.2 | 229 |
| 29 | Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. <i>Nature Chemistry</i> , 2018, 10, 456-461. | 6.6 | 220 |
| 30 | Multifunctional Up-Converting Nanocomposites with Smart Polymer Brushes Gated Mesopores for Cell Imaging and Thermo/pH Dual-Responsive Drug Controlled Release. <i>Advanced Functional Materials</i> , 2013, 23, 4067-4078. | 7.8 | 209 |
| 31 | Conductive Graphene Fibers for Wire-Shaped Supercapacitors Strengthened by Unfunctionalized Few-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2015, 9, 1352-1359. | 7.3 | 193 |
| 32 | A Facile and Universal Top-Down Method for Preparation of Monodisperse Transition-Metal Dichalcogenide Nanodots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5425-5428. | 7.2 | 185 |
| 33 | Electric field effect in multilayer Cr ₂ Ge ₂ Te ₆ : a ferromagnetic 2D material. <i>2D Materials</i> , 2017, 4, 024009. | 2.0 | 173 |
| 34 | Two-dimensional transition metal dichalcogenide nanomaterials for biosensing applications. <i>Materials Chemistry Frontiers</i> , 2017, 1, 24-36. | 3.2 | 173 |
| 35 | TPGS-stabilized NaYbF ₄ :Er upconversion nanoparticles for dual-modal fluorescent/CT imaging and anticancer drug delivery to overcome multi-drug resistance. <i>Biomaterials</i> , 2015, 40, 107-116. | 5.7 | 172 |
| 36 | Coating Two-Dimensional Nanomaterials with Metal-Organic Frameworks. <i>ACS Nano</i> , 2014, 8, 8695-8701. | 7.3 | 168 |

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|----|--|----------|-----------|
| 37 | Tunable multicolor and bright white emission of one-dimensional NaLuF ₄ :Yb ³⁺ ,Ln ³⁺ (Ln = Er, Tm, Ho,) Tj ETQq1 1 | 0.784314 | 167 |
| 38 | High-performance room-temperature sodium-sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. Energy and Environmental Science, 2020, 13, 562-570. | 15.6 | 163 |
| 39 | Up-Conversion Luminescent and Porous NaYF ₄ :Yb ³⁺ ,Er ³⁺ @SiO ₂ Nanocomposite Fibers for Anti-Cancer Drug Delivery and Cell Imaging. Advanced Functional Materials, 2012, 22, 2713-2722. | 7.8 | 145 |
| 40 | Lightweight, Fire-Retardant, and Anti-Compressed Honeycomb-Like Carbon Aerogels for Thermal Management and High-Efficiency Electromagnetic Absorbing Properties. Small, 2021, 17, e2102032. | 5.2 | 141 |
| 41 | Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework. Nature Communications, 2021, 12, 4519. | 5.8 | 139 |
| 42 | Peroxidase-like activity of MoS ₂ nanoflakes with different modifications and their application for H ₂ O ₂ and glucose detection. Journal of Materials Chemistry B, 2018, 6, 487-498. | 2.9 | 130 |
| 43 | Preparation of Single-Layer MoS ₂ /i>Se</i> and MoS ₂ /i>W</i> Nanosheets with High-Concentration Metallic 1T Phase. Small, 2016, 12, 1866-1874. | 5.2 | 126 |
| 44 | Self-Assembled Chiral Nanofibers from Ultrathin Low-Dimensional Nanomaterials. Journal of the American Chemical Society, 2015, 137, 1565-1571. | 6.6 | 123 |
| 45 | Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. Advanced Energy Materials, 2020, 10, 1900486. | 10.2 | 123 |
| 46 | Fabrication of Ultralong Hybrid Microfibers from Nanosheets of Reduced Graphene Oxide and Transition-Metal Dichalcogenides and their Application as Supercapacitors. Angewandte Chemie - International Edition, 2014, 53, 12576-12580. | 7.2 | 119 |
| 47 | Conductive CuCo-Based Bimetal Organic Framework for Efficient Hydrogen Evolution. Advanced Materials, 2021, 33, e2106781. | 11.1 | 116 |
| 48 | Double-Network Nanostructured Hydrogel-Derived Ultrafine Sn-Fe Alloy in Three-Dimensional Carbon Framework for Enhanced Lithium Storage. Nano Letters, 2018, 18, 3193-3198. | 4.5 | 113 |
| 49 | Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. Journal of the American Chemical Society, 2020, 142, 18971-18980. | 6.6 | 111 |
| 50 | Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/N-C) as efficient oxygen catalysts for Zn-air batteries. Nanoscale, 2016, 8, 5067-5075. | 2.8 | 109 |
| 51 | Metal organic framework-derived three-dimensional graphene-supported nitrogen-doped carbon nanotube spheres for electromagnetic wave absorption with ultralow filler mass loading. Carbon, 2019, 155, 233-242. | 5.4 | 109 |
| 52 | Promoting Transport Kinetics in Li-Ion Battery with Aligned Porous Electrode Architectures. Nano Letters, 2019, 19, 8255-8261. | 4.5 | 104 |
| 53 | Doxorubicin conjugated NaYF ₄ :Yb ³⁺ /Tm ³⁺ nanoparticles for therapy and sensing of drug delivery by luminescence resonance energy transfer. Biomaterials, 2012, 33, 8704-8713. | 5.7 | 103 |
| 54 | In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. Small, 2016, 12, 4669-4674. | 5.2 | 101 |

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|----|--|------|-----------|
| 55 | Boosting the lithium storage performance of MoS ₂ with graphene quantum dots. Journal of Materials Chemistry A, 2016, 4, 4783-4789. | 5.2 | 100 |
| 56 | Selective Epitaxial Growth of Oriented Hierarchical Metal-Organic Framework Heterostructures. Journal of the American Chemical Society, 2020, 142, 8953-8961. | 6.6 | 100 |
| 57 | Poly(acrylic acid) modified lanthanide-doped GdVO ₄ hollow spheres for up-conversion cell imaging, MRI and pH-dependent drug release. Nanoscale, 2013, 5, 253-261. | 2.8 | 94 |
| 58 | In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26178-26187. | 4.0 | 94 |
| 59 | Regulation of Morphology and Electronic Structure of FeCoNi Layered Double Hydroxides for Highly Active and Stable Water Oxidization Catalysts. Advanced Energy Materials, 2021, 11, . | 10.2 | 94 |
| 60 | Direct and continuous generation of pure acetic acid solutions via electrocatalytic carbon monoxide reduction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 93 |
| 61 | Self-Assembly of Two-Dimensional Nanosheets into One-Dimensional Nanostructures. Chem, 2016, 1, 59-77. | 5.8 | 92 |
| 62 | An anion-driven Sn ²⁺ exchange reaction in CsPbBr ₃ nanocrystals towards tunable and high photoluminescence. Journal of Materials Chemistry C, 2018, 6, 5506-5513. | 2.7 | 90 |
| 63 | Co@Co ₃ O ₄ @PPD Core-Shell Nanoparticle-Based Composite as an Efficient Electrocatalyst for Oxygen Reduction Reaction. Small, 2016, 12, 2580-2587. | 5.2 | 86 |
| 64 | Formation of g-C ₃ N ₄ Nanotubes towards Superior Photocatalysis Performance. ChemCatChem, 2019, 11, 4558-4567. | 1.8 | 86 |
| 65 | Identification of the Intrinsic Dielectric Properties of Metal Single Atoms for Electromagnetic Wave Absorption. Nano-Micro Letters, 2022, 14, 27. | 14.4 | 86 |
| 66 | Insights into Practical-Scale Electrochemical H ₂ O ₂ Synthesis. Trends in Chemistry, 2020, 2, 942-953. | 4.4 | 85 |
| 67 | Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13162-13169. | 6.6 | 85 |
| 68 | Liquid-phase growth of platinum nanoparticles on molybdenum trioxide nanosheets: an enhanced catalyst with intrinsic peroxidase-like catalytic activity. Nanoscale, 2014, 6, 12340-12344. | 2.8 | 82 |
| 69 | Thiazole derivative-modified upconversion nanoparticles for Hg ²⁺ detection in living cells. Nanoscale, 2016, 8, 276-282. | 2.8 | 82 |
| 70 | Growth of CoFe ₂ O ₄ hollow nanoparticles on graphene sheets for high-performance electromagnetic wave absorbers. Journal of Materials Chemistry C, 2018, 6, 12781-12787. | 2.7 | 82 |
| 71 | Electrochemical oxygen reduction to hydrogen peroxide at practical rates in strong acidic media. Nature Communications, 2022, 13, . | 5.8 | 82 |
| 72 | Controllable synthesis and tunable luminescence properties of Y ₂ (WO ₄) ₃ :Ln ³⁺ (Ln = Eu, Yb/Er, Yb/Tm) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.65 | 81 |

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|----|---|------|-----------|
| 73 | Self-supported N-doped CNT arrays for flexible Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18162-18172. | 5.2 | 81 |
| 74 | Electrospun Upconversion Composite Fibers as Dual Drugs Delivery System with Individual Release Properties. <i>Langmuir</i> , 2013, 29, 9473-9482. | 1.6 | 75 |
| 75 | A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. <i>Biomaterials</i> , 2015, 54, 34-43. | 5.7 | 75 |
| 76 | Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20796-20803. | 4.0 | 75 |
| 77 | Amorphous Porous Organic Polymers Based on Schiff-Base Chemistry for Highly Efficient Iodine Capture. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2046-2053. | 1.7 | 74 |
| 78 | Doping MoS ₂ with Graphene Quantum Dots: Structural and Electrical Engineering towards Enhanced Electrochemical Hydrogen Evolution. <i>Electrochimica Acta</i> , 2016, 211, 603-610. | 2.6 | 72 |
| 79 | Hierarchical nanoarchitected hybrid electrodes based on ultrathin MoSe ₂ nanosheets on 3D ordered macroporous carbon frameworks for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2843-2850. | 5.2 | 69 |
| 80 | AuAg Nanosheets Assembled from Ultrathin AuAg Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 1444-1447. | 6.6 | 68 |
| 81 | Facile and mass production synthesis of $\text{f}^{2-}\text{NaYF}_4\text{:Yb}^{3+}, \text{Er}^{3+}/\text{Tm}^{3+}$ 1D microstructures with multicolor up-conversion luminescence. <i>Chemical Communications</i> , 2011, 47, 12143. | 2.2 | 67 |
| 82 | Preparation of Cobalt Sulfide Nanoparticle-Decorated Nitrogen and Sulfur Co-Doped Reduced Graphene Oxide Aerogel Used as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016, 12, 5920-5926. | 5.2 | 65 |
| 83 | Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layer-Structured Nanodisks beyond Graphene. <i>Advanced Materials</i> , 2017, 29, 1701704. | 11.1 | 65 |
| 84 | Synthesis of Pd ₃ Sn and PdCuSn Nanorods with $\text{L}1_2$ Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2022, 34, e2106115. | 11.1 | 65 |
| 85 | Highly Sensitive and Selective Aptamer-Based Fluorescence Detection of a Malarial Biomarker Using Single-Layer MoS ₂ Nanosheets. <i>ACS Sensors</i> , 2016, 1, 1315-1321. | 4.0 | 64 |
| 86 | Rapid, morphologically controllable, large-scale synthesis of uniform Y(OH) ₃ and tunable luminescent properties of Y ₂ O ₃ :Yb ³⁺ /Ln ³⁺ (Ln = Er, Tm and Ho). <i>Journal of Materials Chemistry</i> , 2012, 22, 16136. | 6.7 | 63 |
| 87 | Composition- and phase-controlled synthesis and applications of alloyed phase heterostructures of transition metal disulphides. <i>Nanoscale</i> , 2017, 9, 5102-5109. | 2.8 | 63 |
| 88 | The edge-epitaxial growth of yellow g-C ₃ N ₄ on red g-C ₃ N ₄ nanosheets with superior photocatalytic activities. <i>Chemical Communications</i> , 2021, 57, 3119-3122. | 2.2 | 61 |
| 89 | Construction of 2D g-C ₃ N ₄ lateral-like homostructures and their photo- and electro-catalytic activities. <i>Chemical Communications</i> , 2019, 55, 1233-1236. | 2.2 | 60 |
| 90 | Preparation of Ultrathin Two-Dimensional Ti _x Ta _{1-x} S _y O _z Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7842-7846. | 7.2 | 59 |

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|-----|---|------|-----------|
| 91 | Transition metals decorated g-C ₃ N ₄ /N-doped carbon nanotube catalysts for water splitting: A review. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115510. | 1.9 | 59 |
| 92 | Proton sponge promotion of electrochemical CO ₂ reduction to multi-carbon products. <i>Joule</i> , 2022, 6, 205-220. | 11.7 | 57 |
| 93 | Efficient bifunctional vanadium-doped Ni ₃ S ₂ nanorod array for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 443-450. | 3.0 | 54 |
| 94 | Hierarchical flower-like Ni-Co layered double hydroxide nanostructures: synthesis and super performance. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3033-3041. | 3.0 | 53 |
| 95 | Impact of the North Atlantic Oscillation on the Dipole Oscillation of summer precipitation over the central and eastern Tibetan Plateau. <i>International Journal of Climatology</i> , 2015, 35, 4539-4546. | 1.5 | 52 |
| 96 | Lösungsprozessierte MoS ₂ -Nanoplättchen: Herstellung, Hybridisierung und Anwendungen. <i>Angewandte Chemie</i> , 2016, 128, 8960-8984. | 1.6 | 52 |
| 97 | Epidermal Supercapacitor with High Performance. <i>Advanced Functional Materials</i> , 2016, 26, 8178-8184. | 7.8 | 52 |
| 98 | Three dimensional graphene-supported nitrogen-doped carbon nanotube architectures for attenuation of electromagnetic energy. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11868-11878. | 2.7 | 50 |
| 99 | Visible-Light-Induced Dearomatization via [2+2] Cycloaddition or 1,5-Hydrogen Atom Transfer: Divergent Reaction Pathways of Transient Diradicals. <i>ACS Catalysis</i> , 2020, 10, 12618-12626. | 5.5 | 50 |
| 100 | Biosynthesis of Self-Assembled Proteinaceous Nanoparticles for Vaccination. <i>Advanced Materials</i> , 2020, 32, e2002940. | 11.1 | 50 |
| 101 | Organic-Dye-Modified Upconversion Nanoparticle as a Multichannel Probe To Detect Cu ²⁺ in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1028-1032. | 4.0 | 49 |
| 102 | Weavable, High-Performance, Solid-State Supercapacitors Based on Hybrid Fibers Made of Sandwiched Structure of MWCNT/rGO/MWCNT. <i>Advanced Electronic Materials</i> , 2016, 2, 1600102. | 2.6 | 47 |
| 103 | Fusiform-Shaped g-C ₃ N ₄ Capsules with Superior Photocatalytic Activity. <i>Small</i> , 2020, 16, e2003910. | 5.2 | 47 |
| 104 | CsPbX ₃ Quantum Dots Embedded in Zeolitic Imidazolate Framework-8 Microparticles for Bright White Light-Emitting Devices. <i>ACS Applied Nano Materials</i> , 2021, 4, 5478-5485. | 2.4 | 46 |
| 105 | Simulation of nanoparticles interacting with a cell membrane: probing the structural basis and potential biomedical application. <i>NPG Asia Materials</i> , 2021, 13, . | 3.8 | 46 |
| 106 | Platinum (IV) Prodrug Conjugated NaYF ₄ :Yb ³⁺ /Er ³⁺ Nanoparticles for Targeted Drug Delivery and Up-Conversion Cell Imaging. <i>Advanced Healthcare Materials</i> , 2013, 2, 562-567. | 3.9 | 45 |
| 107 | Self-assembled three-dimensional NaY(WO ₄) ₂ :Ln ³⁺ architectures: Hydrothermal synthesis, growth mechanism and luminescence properties. <i>Journal of Alloys and Compounds</i> , 2012, 529, 140-147. | 2.8 | 44 |
| 108 | Synthesis of MoX ₂ (X = Se or S) monolayers with high-concentration 1T phase on 4H/fcc-Au nanorods for hydrogen evolution. <i>Nano Research</i> , 2019, 12, 1301-1305. | 5.8 | 44 |

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|-----|---|-----|-----------|
| 109 | Controlling the growth of a SiO ₂ coating on hydrophobic CsPbBr ₃ nanocrystals towards aqueous transfer and high luminescence. <i>Nanoscale</i> , 2021, 13, 3860-3867. | 2.8 | 44 |
| 110 | CO ₂ /carbonate-mediated electrochemical water oxidation to hydrogen peroxide. <i>Nature Communications</i> , 2022, 13, 2668. | 5.8 | 44 |
| 111 | Triangular Ag-Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. <i>Nanoscale</i> , 2014, 6, 11738-11743. | 2.8 | 43 |
| 112 | NiMoS ₃ Nanorods as pH-Tolerant Electrocatalyst for Efficient Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9006-9013. | 3.2 | 43 |
| 113 | A two-step gas/liquid strategy for the production of N-doped defect-rich transition metal dichalcogenide nanosheets and their antibacterial applications. <i>Nanoscale</i> , 2020, 12, 8415-8424. | 2.8 | 43 |
| 114 | Ni/Ni ₃ C core-shell nanoparticles encapsulated in N-doped bamboo-like carbon nanotubes towards efficient overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1073-1080. | 3.0 | 42 |
| 115 | Ultrastable g-C ₃ N ₄ assemblies with high quantum yield and reversible photoluminescence. <i>Chemical Communications</i> , 2018, 54, 13519-13522. | 2.2 | 41 |
| 116 | The design of a novel and resistant Zn(PZDC)(ATZ) MOF catalyst for the chemical fixation of CO ₂ under solvent-free conditions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 317-325. | 3.0 | 41 |
| 117 | Isoreticular Series of Two-Dimensional Covalent Organic Frameworks with the kgd Topology and Controllable Micropores. <i>Journal of the American Chemical Society</i> , 2022, 144, 6475-6482. | 6.6 | 41 |
| 118 | Shell-core MoS ₂ nanosheets@Fe ₃ O ₄ sphere heterostructure with exposed active edges for efficient electrocatalytic hydrogen production. <i>Journal of Alloys and Compounds</i> , 2017, 715, 53-59. | 2.8 | 40 |
| 119 | Hybrid of Fe ₄ [Fe(CN) ₆] ₃ nanocubes and MoS ₂ nanosheets on nitrogen-doped graphene realizing improved electrochemical hydrogen production. <i>Electrochimica Acta</i> , 2018, 263, 140-146. | 2.6 | 38 |
| 120 | Evolution of Morphology, Phase Composition, and Photoluminescence of Cesium Lead Bromine Nanocrystals with Temperature and Precursors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28968-28976. | 1.5 | 38 |
| 121 | Ultra-thin metal-organic framework nanoribbons. <i>National Science Review</i> , 2020, 7, 46-52. | 4.6 | 38 |
| 122 | Dreidimensionale Architekturen aus Übergangsmetall-Dichalkogenid-Nanomaterialien zur elektrochemischen Energiespeicherung und -umwandlung. <i>Angewandte Chemie</i> , 2018, 130, 634-655. | 1.6 | 37 |
| 123 | Vertically aligned MoS ₂ nanosheets on N-doped carbon nanotubes with NiFe alloy for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3578-3587. | 3.0 | 37 |
| 124 | Mn:CsPbBr ₃ Nanoplatelets for Bright White-Emitting Displays. <i>ACS Applied Nano Materials</i> , 2021, 4, 6223-6230. | 2.4 | 37 |
| 125 | Cyan-emitting Ti ⁴⁺ - and Mn ²⁺ -coactivated Mg ₂ SnO ₄ as a potential phosphor to enlarge the color gamut for field emission display. <i>Journal of Materials Chemistry</i> , 2011, 21, 6477. | 6.7 | 36 |
| 126 | Enhanced hydrogen evolution of MoS ₂ /RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2092-2099. | 3.0 | 36 |

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|-----|--|-----|-----------|
| 127 | A mini review on two-dimensional nanomaterial assembly. Nano Research, 2020, 13, 1179-1190. | 5.8 | 36 |
| 128 | Bifunctional Nitrogen-Doped Carbon Dots in g-C ₃ N ₄ /WO ₃ Heterojunction for Enhanced Photocatalytic Water-Splitting Performance. Langmuir, 2021, 37, 4236-4247. | 1.6 | 36 |
| 129 | General Synthetic Strategy for Pomegranate-like Transition-Metal Phosphides@N-Doped Carbon Nanostructures with High Lithium Storage Capacity. , 2019, 1, 265-271. | | 35 |
| 130 | Photo-chemical property evolution of superior thin g-C ₃ N ₄ nanosheets with their crystallinity and Pt deposition. International Journal of Hydrogen Energy, 2020, 45, 21523-21531. | 3.8 | 35 |
| 131 | Layered graphitic carbon nitride: nano-heterostructures, photo/electro-chemical performance and trends. Journal of Nanostructure in Chemistry, 2022, 12, 669-691. | 5.3 | 34 |
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