

Peng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

243
papers

14,952
citations

20817
60
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21540
114
g-index

247
all docs

247
docs citations

247
times ranked

21834
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Free-standing graphene at atomic resolution. Nature Nanotechnology, 2008, 3, 676-681. | 31.5 | 575 |
| 2 | High-resolution detection of Au catalyst atoms in Si nanowires. Nature Nanotechnology, 2008, 3, 168-173. | 31.5 | 575 |
| 3 | Robust memristors based on layered two-dimensional materials. Nature Electronics, 2018, 1, 130-136. | 26.0 | 539 |
| 4 | Surface-Enhanced Raman Scattering Active Gold Nanoparticles with Enzyme-Mimicking Activities for Measuring Glucose and Lactate in Living Tissues. ACS Nano, 2017, 11, 5558-5566. | 14.6 | 514 |
| 5 | Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe ₂ /MoS ₂ van der Waals Heterostructures. ACS Nano, 2016, 10, 3852-3858. | 14.6 | 453 |
| 6 | Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. Science Advances, 2017, 3, e1700589. | 10.3 | 419 |
| 7 | Freestanding crystalline oxide perovskites down to the monolayer limit. Nature, 2019, 570, 87-90. | 27.8 | 398 |
| 8 | Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. Nature Nanotechnology, 2021, 16, 1201-1207. | 31.5 | 339 |
| 9 | Nitrogen-Doped CoP Electrocatalysts for Coupled Hydrogen Evolution and Sulfur Generation with Low Energy Consumption. Advanced Materials, 2018, 30, e1800140. | 21.0 | 336 |
| 10 | Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. Nano Letters, 2016, 16, 2254-2259. | 9.1 | 322 |
| 11 | Controlled Synthesis of Lead-Free and Stable Perovskite Derivative Cs ₂ SnI ₆ Nanocrystals via a Facile Hot-Injection Process. Chemistry of Materials, 2016, 28, 8132-8140. | 6.7 | 310 |
| 12 | Towards efficient solar hydrogen production by intercalated carbon nitride photocatalyst. Physical Chemistry Chemical Physics, 2013, 15, 18077. | 2.8 | 309 |
| 13 | Electrocatalytic Hydrogen Evolution Reaction on Edges of a Few Layer Molybdenum Disulfide Nanodots. ACS Applied Materials & Interfaces, 2015, 7, 14113-14122. | 8.0 | 295 |
| 14 | Compact Plasmonic Blackbody for Cancer Theranosis in the Near-Infrared II Window. ACS Nano, 2018, 12, 2643-2651. | 14.6 | 294 |
| 15 | Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. Nature Catalysis, 2018, 1, 460-468. | 34.4 | 247 |
| 16 | Strain Dynamics of Ultrathin VO ₂ Film Grown on TiO ₂ (001) and the Associated Phase Transition Modulation. Nano Letters, 2014, 14, 4036-4043. | 9.1 | 233 |
| 17 | Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907. | 7.1 | 229 |
| 18 | Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. Physical Review Letters, 2016, 116, 016602. | 7.8 | 220 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | The simplest construction of single-site catalysts by the synergism of micropore trapping and nitrogen anchoring. <i>Nature Communications</i> , 2019, 10, 1657. | 12.8 | 220 |
| 20 | High-Mobility Multilayered MoS ₂ Flakes with Low Contact Resistance Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2017, 29, 1604540. | 21.0 | 214 |
| 21 | Uniform and ultrathin high- κ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , 2019, 2, 563-571. | 26.0 | 204 |
| 22 | eg occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , 2019, 10, 704. | 12.8 | 199 |
| 23 | Highly sensitive visible to infrared MoTe ₂ photodetectors enhanced by the photogating effect. <i>Nanotechnology</i> , 2016, 27, 445201. | 2.6 | 188 |
| 24 | Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire. <i>Nature</i> , 2022, 605, 69-75. | 27.8 | 174 |
| 25 | Platinum Integrated Graphene for Methanol Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15837-15841. | 3.1 | 163 |
| 26 | Synthesis of synergetic phosphorus and cyano groups (C N) modified g-C ₃ N ₄ for enhanced photocatalytic H ₂ production and CO ₂ reduction under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 521-530. | 20.2 | 162 |
| 27 | Ultrasonic activation of inert poly(tetrafluoroethylene) enables piezocatalytic generation of reactive oxygen species. <i>Nature Communications</i> , 2021, 12, 3508. | 12.8 | 153 |
| 28 | Surface Structural Transition Induced by Gradient Polyanion-Doping in Li-Rich Layered Oxides: Implications for Enhanced Electrochemical Performance. <i>Advanced Functional Materials</i> , 2016, 26, 4760-4767. | 14.9 | 151 |
| 29 | Nanoporous Zn-doped Co ₃ O ₄ sheets with single-unit-cell-wide lateral surfaces for efficient oxygen evolution and water splitting. <i>Nano Energy</i> , 2018, 44, 371-377. | 16.0 | 138 |
| 30 | Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016, 28, 5200-5205. | 21.0 | 134 |
| 31 | Magnetic Semiconductor Gd-Doping CuS Nanoparticles as Activatable Nanoprobes for Bimodal Imaging and Targeted Photothermal Therapy of Gastric Tumors. <i>Nano Letters</i> , 2019, 19, 937-947. | 9.1 | 132 |
| 32 | Ruthenium-platinum core-shell nanocatalysts with substantially enhanced activity and durability towards methanol oxidation. <i>Nano Energy</i> , 2016, 21, 247-257. | 16.0 | 121 |
| 33 | Self-Assembled Growth, Microstructure, and Field-Emission High-Performance of Ultrathin Diamond Nanorods. <i>ACS Nano</i> , 2009, 3, 1032-1038. | 14.6 | 119 |
| 34 | Manganese-Based Na-Rich Materials Boost Anionic Redox in High-Performance Layered Cathodes for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1807770. | 21.0 | 113 |
| 35 | Dandelion-like Mn/Ni Co-doped CoO/C Hollow Microspheres with Oxygen Vacancies for Advanced Lithium Storage. <i>ACS Nano</i> , 2019, 13, 11921-11934. | 14.6 | 106 |
| 36 | Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. <i>Science</i> , 2022, 376, 973-978. | 12.6 | 105 |

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|----|--|------|-----------|
| 37 | Engineering hetero-epitaxial nanostructures with aligned Li-ion channels in Li-rich layered oxides for high-performance cathode application. Nano Energy, 2017, 35, 271-280. | 16.0 | 99 |
| 38 | Biological Uptake, Distribution, and Depuration of Radio-Labeled Graphene in Adult Zebrafish: Effects of Graphene Size and Natural Organic Matter. ACS Nano, 2017, 11, 2872-2885. | 14.6 | 98 |
| 39 | Achieving high thermoelectric performance with Pb and Zn codoped polycrystalline SnSe via phase separation and nanostructuring strategies. Nano Energy, 2018, 53, 683-689. | 16.0 | 98 |
| 40 | Stacking-mode confined growth of 2H-MoTe ₂ /MoS ₂ bilayer heterostructures for UV-vis-IR photodetectors. Nano Energy, 2018, 49, 200-208. | 16.0 | 96 |
| 41 | Two-Dimensional Semiconductors Grown by Chemical Vapor Transport. Angewandte Chemie - International Edition, 2017, 56, 3611-3615. | 13.8 | 92 |
| 42 | Surface Engineering of CoMoS Nanosulfide for Hydrodeoxygenation of Lignin-Derived Phenols to Arenes. ACS Catalysis, 2019, 9, 259-268. | 11.2 | 90 |
| 43 | Experimental realization of two-dimensional artificial skyrmion crystals at room temperature. Physical Review B, 2014, 90, . | 3.2 | 89 |
| 44 | Electron ptychographic microscopy for three-dimensional imaging. Nature Communications, 2017, 8, 163. | 12.8 | 89 |
| 45 | Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 3336-3345. | 10.3 | 88 |
| 46 | Enhanced Water-Splitting Performance of Perovskite SrTaO ₂ N Photoanode Film through Ameliorating Interparticle Charge Transport. Advanced Functional Materials, 2016, 26, 7156-7163. | 14.9 | 86 |
| 47 | Tuning the Catalytic Activity of Graphene Nanosheets for Oxygen Reduction Reaction via Size and Thickness Reduction. ACS Applied Materials & Interfaces, 2014, 6, 19726-19736. | 8.0 | 83 |
| 48 | Gate-Induced Interfacial Superconductivity in 1T-SnSe ₂ . Nano Letters, 2018, 18, 1410-1415. | 9.1 | 81 |
| 49 | High-density switchable skyrmion-like polar nanodomains integrated on silicon. Nature, 2022, 603, 63-67. | 27.8 | 79 |
| 50 | Enhancing the Structural Stability of Ni-Rich Layered Oxide Cathodes with a Preformed Zr-Concentrated Defective Nanolayer. ACS Applied Materials & Interfaces, 2018, 10, 39599-39607. | 8.0 | 78 |
| 51 | Heteroepitaxial oxygen-buffering interface enables a highly stable cobalt-free Li-rich layered oxide cathode. Nano Energy, 2020, 75, 104995. | 16.0 | 74 |
| 52 | Surface passivation of mixed-halide perovskite CsPb(Br _x I _{1-x}) ₃ nanocrystals by selective etching for improved stability. Nanoscale, 2017, 9, 7391-7396. | 5.6 | 73 |
| 53 | Low-dose phase retrieval of biological specimens using cryo-electron ptychography. Nature Communications, 2020, 11, 2773. | 12.8 | 72 |
| 54 | Tuning strain effect and surface composition in PdAu hollow nanospheres as highly efficient ORR electrocatalysts and SERS substrates. Applied Catalysis B: Environmental, 2020, 262, 118298. | 20.2 | 70 |

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|----|--|------|-----------|
| 55 | Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS ₂ . Nano Letters, 2018, 18, 3435-3440. | 9.1 | 69 |
| 56 | Hierarchical sulfur and nitrogen co-doped carbon nanocages as efficient bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. Journal of Energy Chemistry, 2019, 34, 64-71. | 12.9 | 69 |
| 57 | Hollow Palladium-Gold Nanochains with Periodic Concave Structures as Superior ORR Electrocatalysts and Highly Efficient SERS Substrates. Advanced Energy Materials, 2020, 10, 1904072. | 19.5 | 69 |
| 58 | Achieving high structure and voltage stability in cobalt-free Li-rich layered oxide cathodes via selective dual-cation doping. Energy Storage Materials, 2020, 32, 37-45. | 18.0 | 69 |
| 59 | The Effect of Boron Doping on Structure and Electrochemical Performance of Lithium-Rich Layered Oxide Materials. ACS Applied Materials & Interfaces, 2016, 8, 18008-18017. | 8.0 | 68 |
| 60 | Constrained growth of ultrasmall BiOCl nanodiscs with a low percentage of exposed {001} facets and their enhanced photoreactivity under visible light irradiation. Applied Catalysis B: Environmental, 2015, 176-177, 201-211. | 20.2 | 65 |
| 61 | Polarized Optoelectronics of CsPbX ₃ (X = Cl, Br, I) Perovskite Nanoplates with Tunable Size and Thickness. Advanced Functional Materials, 2018, 28, 1800283. | 14.9 | 63 |
| 62 | Electroplating lithium transition metal oxides. Science Advances, 2017, 3, e1602427. | 10.3 | 62 |
| 63 | Mechanism of Alkali Metal Compound-Promoted Growth of Monolayer MoS ₂ : Eutectic Intermediates. Chemistry of Materials, 2019, 31, 873-880. | 6.7 | 59 |
| 64 | Strong optical response and light emission from a monolayer molecular crystal. Nature Communications, 2019, 10, 5589. | 12.8 | 59 |
| 65 | A phase-transition-free cathode for sodium-ion batteries with ultralong cycle life. Nano Energy, 2018, 52, 88-94. | 16.0 | 58 |
| 66 | Solvothermal Synthesis of Lateral Heterojunction Sb ₂ Te ₃ /Bi ₂ Te ₃ Nanoplates. Nano Letters, 2015, 15, 5905-5911. | 9.1 | 56 |
| 67 | Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. Journal of Materials Chemistry A, 2018, 6, 2568-2576. | 10.3 | 56 |
| 68 | Stable heteroepitaxial interface of Li-rich layered oxide cathodes with enhanced lithium storage. Energy Storage Materials, 2019, 21, 69-76. | 18.0 | 53 |
| 69 | Unlocking the potential of graphene for water oxidation using an orbital hybridization strategy. Energy and Environmental Science, 2018, 11, 407-416. | 30.8 | 52 |
| 70 | Boosting the performance of single-atom catalysts via external electric field polarization. Nature Communications, 2022, 13, . | 12.8 | 52 |
| 71 | Mesoporous Ce-Ti-Zr ternary oxide millispheres for efficient catalytic ozonation in bubble column. Chemical Engineering Journal, 2018, 338, 261-270. | 12.7 | 51 |
| 72 | A Superlattice-Stabilized Layered Oxide Cathode for Sodium-Ion Batteries. Advanced Materials, 2020, 32, e1907936. | 21.0 | 50 |

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|----|--|------|-----------|
| 73 | Phase transformations in yttrium –aluminium oxides in friction stir welded and recrystallised PM2000 alloys. <i>Materials at High Temperatures</i> , 2009, 26, 299-303. | 1.0 | 47 |
| 74 | Core–Shell Layered Oxide Cathode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7144-7152. | 8.0 | 47 |
| 75 | Giant Ferroelectric Polarization in Ultrathin Ferroelectrics via Boundary–Condition Engineering. <i>Advanced Materials</i> , 2017, 29, 1701475. | 21.0 | 47 |
| 76 | Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics. <i>ACS Nano</i> , 2022, 16, 4152-4161. | 14.6 | 47 |
| 77 | Nanoscale Energy-Filtered Scanning Confocal Electron Microscopy Using a Double-Aberration-Corrected Transmission Electron Microscope. <i>Physical Review Letters</i> , 2010, 104, 200801. | 7.8 | 46 |
| 78 | Deterministic electron ptychography at atomic resolution. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 46 |
| 79 | Fabrication of highly emissive and highly stable perovskite nanocrystal-polymer slabs for luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4872-4880. | 10.3 | 45 |
| 80 | Physicochemical Changes of Few-Layer Graphene in Peroxidase-Catalyzed Reactions: Characterization and Potential Ecological Effects. <i>Environmental Science & Technology</i> , 2015, 49, 8558-8565. | 10.0 | 44 |
| 81 | Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. <i>Scientific Reports</i> , 2019, 9, 3919. | 3.3 | 44 |
| 82 | Unusual Stacking Variations in Liquid-Phase Exfoliated Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2014, 8, 3690-3699. | 14.6 | 43 |
| 83 | Study of Microstructure Change of Carbon Nanofibers as Binder-Free Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33091-33101. | 8.0 | 43 |
| 84 | Aberration measurement using the Ronchigram contrast transfer function. <i>Ultramicroscopy</i> , 2010, 110, 891-898. | 1.9 | 42 |
| 85 | Carbon Quantum Dots Modulated NiMoP Hollow Nanopetals as Efficient Electrocatalysts for Hydrogen Evolution. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14098-14105. | 3.7 | 42 |
| 86 | Contrast Reversal in Atomic-Resolution Chemical Mapping. <i>Physical Review Letters</i> , 2008, 101, 236102. | 7.8 | 41 |
| 87 | Understanding the Enhanced Kinetics of Gradient-Chemical-Doped Lithium-Rich Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20519-20526. | 8.0 | 41 |
| 88 | Capturing Reversible Cation Migration in Layered Structure Materials for Na–Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900189. | 19.5 | 41 |
| 89 | Magnetic interactions in BiFe _{0.5} Mn _{0.5} O ₃ films and BiFeO ₃ /BiMnO ₃ superlattices. <i>Scientific Reports</i> , 2015, 5, 9093. | 3.3 | 40 |
| 90 | Direct measurement of composition of buried quantum dots using aberration-corrected scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2006, 89, 072111. | 3.3 | 38 |

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|-----|--|------|-----------|
| 91 | Engineering Nanoceria for Enhanced Peroxidase Mimics: A Solid Solution Strategy. ChemCatChem, 2019, 11, 737-743. | 3.7 | 38 |
| 92 | DNA origami single crystals with Wulff shapes. Nature Communications, 2021, 12, 3011. | 12.8 | 38 |
| 93 | Electron Ptychographic Diffractive Imaging of Boron Atoms in LaB6 Crystals. Scientific Reports, 2017, 7, 2857. | 3.3 | 37 |
| 94 | Atomically Resolved Electrically Active Intragrain Interfaces in Perovskite Semiconductors. Journal of the American Chemical Society, 2022, 144, 1910-1920. | 13.7 | 37 |
| 95 | Site Occupancy and Dielectric Characteristics of Strontium Barium Niobate Ceramics: Sr/Ba Ratio Dependence. Japanese Journal of Applied Physics, 2002, 41, 7042-7047. | 1.5 | 36 |
| 96 | Repairing atomic vacancies in single-layer MoSe2 field-effect transistor and its defect dynamics. Npj Quantum Materials, 2017, 2, . | 5.2 | 36 |
| 97 | Tailoring alternating heteroepitaxial nanostructures in Na-ion layered oxide cathodes via an in-situ composition modulation route. Nano Energy, 2018, 44, 336-344. | 16.0 | 36 |
| 98 | Co-catalysis of a bi-functional ligand containing phosphine and Lewis acidic phosphonium for hydroformylationâ€“acetalization of olefins. Green Chemistry, 2016, 18, 1798-1806. | 9.0 | 35 |
| 99 | Antiferromagnetic Order in Epitaxial FeSe Films on SrTiO_3 . Physical Review Letters, 2018, 120, 097001. | 7.8 | 35 |
| 100 | Strengthening nitrogen affinity on CuAu@Cu coreâ€“shell nanoparticles with ultrathin Cu skin via strain engineering and ligand effect for boosting nitrogen reduction reaction. Applied Catalysis B: Environmental, 2021, 288, 119999. | 20.2 | 35 |
| 101 | Tuning the transport behavior of centimeter-scale WTe2 ultrathin films fabricated by pulsed laser deposition. Applied Physics Letters, 2017, 111, . | 3.3 | 34 |
| 102 | Probing the light harvesting and charge rectification of bismuth nanoparticles behind the promoted photoreactivity onto Bi/BiOCl catalyst by (in-situ) electron microscopy. Applied Catalysis B: Environmental, 2017, 201, 495-502. | 20.2 | 34 |
| 103 | Reducing Contact Resistance and Boosting Device Performance of Monolayer MoS ₂ by In Situ Fe Doping. Advanced Materials, 2022, 34, e2200885. | 21.0 | 34 |
| 104 | Electrical conduction mechanisms and effect of atmosphere annealing on the electrical properties of BiFeO3-BaTiO3 ceramics. Journal of the European Ceramic Society, 2019, 39, 4727-4734. | 5.7 | 33 |
| 105 | Shear-resistant interface of layered oxide cathodes for sodium ion batteries. Energy Storage Materials, 2022, 45, 389-398. | 18.0 | 33 |
| 106 | Roles of Coherent Interfaces on Electrochemical Performance of Sodium Layered Oxide Cathodes. Chemistry of Materials, 2018, 30, 4728-4737. | 6.7 | 32 |
| 107 | Revealing the Critical Role of Titanium in Layered Manganese-Based Oxides toward Advanced Sodium-Ion Batteries via a Combined Experimental and Theoretical Study. Small Methods, 2019, 3, 1800183. | 8.6 | 32 |
| 108 | Towards rational design of high performance Ni-rich layered oxide cathodes: The interplay of borate-doping and excess lithium. Journal of Power Sources, 2019, 431, 40-47. | 7.8 | 31 |

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|-----|---|------|-----------|
| 109 | Aliovalent fluorine doping and anodization-induced amorphization enable bifunctional catalysts for efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10831-10838. | 10.3 | 31 |
| 110 | Reviving reversible anion redox in 3d-transition-metal Li rich oxides by introducing surface defects. <i>Nano Energy</i> , 2020, 71, 104644. | 16.0 | 31 |
| 111 | Gate-tunable the interface properties of GaAs/WSe ₂ (1D/2D) vdWs heterojunction for high-responsivity, self-powered photodetector. <i>Applied Physics Letters</i> , 2021, 118, . | 3.3 | 31 |
| 112 | Bifunctional ligands in combination with phosphines and Lewis acidic phosphoniums for the carbonylative Sonogashira reaction. <i>Chemical Communications</i> , 2015, 51, 10871-10874. | 4.1 | 29 |
| 113 | Structural and Magnetic Characterization of Co and Ni Silicate Hydroxides in Bulk and in Nanostructures within Silica Aerogels. <i>Chemistry of Materials</i> , 2009, 21, 945-953. | 6.7 | 28 |
| 114 | Iron oxide nanoparticles confined in mesoporous silicates for arsenic sequestration: effect of the host pore structure. <i>Environmental Science: Nano</i> , 2017, 4, 679-688. | 4.3 | 28 |
| 115 | Ferrous sulfide-assisted hollow carbon spheres as sulfur host for advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2017, 326, 1040-1047. | 12.7 | 28 |
| 116 | Insights into the growth of bismuth nanoparticles on 2D structured BiOCl photocatalysts: an in situ TEM investigation. <i>Dalton Transactions</i> , 2015, 44, 15888-15896. | 3.3 | 27 |
| 117 | Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System. <i>Advanced Electronic Materials</i> , 2018, 4, 1800055. | 5.1 | 27 |
| 118 | Hollow Electron Ptychographic Diffractive Imaging. <i>Physical Review Letters</i> , 2018, 121, 146101. | 7.8 | 27 |
| 119 | SbSI Nanocrystals: An Excellent Visible Light Photocatalyst with Efficient Generation of Singlet Oxygen. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12166-12175. | 6.7 | 27 |
| 120 | Atomic Characterization of Byproduct Nanoparticles on Cesium Lead Halide Nanocrystals Using High-Resolution Scanning Transmission Electron Microscopy. <i>Crystals</i> , 2018, 8, 2. | 2.2 | 27 |
| 121 | Electrochemical and Structural Analysis in All-Solid-State Lithium Batteries by Analytical Electron Microscopy: Progress and Perspectives. <i>Advanced Materials</i> , 2020, 32, e1903747. | 21.0 | 27 |
| 122 | Insights into the Enhanced Structural and Thermal Stabilities of Nb-Substituted Lithium-Rich Layered Oxide Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45619-45629. | 8.0 | 26 |
| 123 | Strain engineering by atomic lattice locking in P2-type layered oxide cathode for high-voltage sodium-ion batteries. <i>Nano Energy</i> , 2020, 76, 105061. | 16.0 | 25 |
| 124 | Programmable Assembly of Nano-Architectures through Designing Anisotropic DNA Origami Patches. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6389-6396. | 13.8 | 25 |
| 125 | Synthesis of hierarchical and bridging carbon-coated LiMn _{0.9} Fe _{0.1} PO ₄ nanostructure as cathode material with improved performance for lithium ion battery. <i>Journal of Power Sources</i> , 2017, 359, 408-414. | 7.8 | 25 |
| 126 | Highly crystalline ReSe ₂ atomic layers synthesized by chemical vapor transport. <i>Informa Materials</i> , 2019, 1, 552-558. | 17.3 | 24 |

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|-----|---|------|-----------|
| 127 | Geometric aspects of lattice contrast visibility in nanocrystalline materials using HAADF STEM. Ultramicroscopy, 2006, 106, 277-283. | 1.9 | 23 |
| 128 | Highly Durable and Active Ternary PtAuNi Electro catalyst for Oxygen Reduction Reaction. ChemCatChem, 2018, 10, 3049-3056. | 3.7 | 22 |
| 129 | A Flexible Film toward High-Performance Lithium Storage: Designing Nanosheet-Assembled Hollow Single-Hole NiCoMnO Spheres with Oxygen Vacancy Embedded in 3D Carbon Nanotube/Graphene Network. Small, 2019, 15, e1901343. | 10.0 | 22 |
| 130 | Optimization of oxygen vacancy concentration in HfO ₂ /HfO _x bilayer-structured ultrathin memristors by atomic layer deposition and their biological synaptic behavior. Journal of Materials Chemistry C, 2020, 8, 12478-12484. | 5.5 | 22 |
| 131 | Epitaxial optimization of atomically smooth SrAl ₂ O ₆ for freestanding perovskite films by molecular beam epitaxy. Thin Solid Films, 2020, 697, 137815. | 1.8 | 22 |
| 132 | Optical Sectioning and Confocal Imaging and Analysis in the Transmission Electron Microscope. Annual Review of Materials Research, 2012, 42, 125-143. | 9.3 | 21 |
| 133 | Effect of positive-charges in diphosphino-imidazolium salts on the structures of Ir-complexes and catalysis for hydroformylation. Journal of Molecular Catalysis A, 2016, 411, 337-343. | 4.8 | 21 |
| 134 | Efficient and recyclable Rh-catalytic system with involvement of phosphine-functionalized phosphonium-based ionic liquids for tandem hydroformylation-acetalization. Green Energy and Environment, 2017, 2, 419-427. | 8.7 | 21 |
| 135 | Integrating P ₂ into O ₂ toward a robust Mn-Based layered cathode for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 23820-23826. | 10.3 | 21 |
| 136 | Impurity induced non-bulk stacking in chemically exfoliated h-BN nanosheets. Nanoscale, 2013, 5, 2290. | 5.6 | 20 |
| 137 | Magnetoelectricity coupled exchange bias in BaMnF ₄ . Scientific Reports, 2015, 5, 18392. | 3.3 | 20 |
| 138 | Synthesis of CrO _x /C catalysts for low temperature NH ₃ -SCR with enhanced regeneration ability in the presence of SO ₂ . RSC Advances, 2018, 8, 3858-3868. | 3.6 | 20 |
| 139 | Improved memory functions in multiferroic tunnel junctions with a dielectric/ferroelectric composite barrier. Applied Physics Letters, 2015, 107, . | 3.3 | 19 |
| 140 | Promotion effect of water on hydroformylation of styrene and its derivatives with presence of amphiphilic zwitterionic phosphines. Journal of Molecular Catalysis A, 2015, 407, 212-220. | 4.8 | 19 |
| 141 | Phosphonium-based aminophosphines as bifunctional ligands for sequential catalysis of one-pot hydroformylation-acetalization of olefins. Catalysis Science and Technology, 2016, 6, 3854-3861. | 4.1 | 19 |
| 142 | Improving the Electrochemical Properties of the Manganese-Based P3 Phase by Multiphasic Intergrowth. Inorganic Chemistry, 2018, 57, 15584-15591. | 4.0 | 19 |
| 143 | Bright-field scanning confocal electron microscopy using a double aberration-corrected transmission electron microscope. Ultramicroscopy, 2011, 111, 877-886. | 1.9 | 18 |
| 144 | Intrinsic ferromagnetism and quantum transport transition in individual Fe-doped Bi ₂ Se ₃ topological insulator nanowires. Nanoscale, 2017, 9, 12372-12378. | 5.6 | 18 |

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|-----|---|-----|-----------|
| 145 | Effect of Sodium Content on the Electrochemical Performance of Li-Substituted, Manganese-Based, Sodium-Ion Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2020, 12, 2191-2198. | 8.0 | 18 |
| 146 | Fast deterministic single-exposure coherent diffractive imaging at sub-Å...ngstrÅm resolution. Physical Review B, 2013, 87, . | 3.2 | 17 |
| 147 | Electron energy loss spectroscopy of nano-scale CrAlYN/CrNâ€“CrAlY(O)N/Cr(O)N multilayer coatings deposited by unbalanced magnetron sputtering. Thin Solid Films, 2010, 518, 5121-5127. | 1.8 | 16 |
| 148 | Voltage polarity manipulation of the magnetoresistance sign in organic spin valve devices. Applied Physics Letters, 2014, 104, 262402. | 3.3 | 16 |
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