

Lianzhou Wang

List of Publications by Year in descending order

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581
papers

45,511
citations

1171

111
h-index

3402

183
g-index

598
all docs

598
docs citations

598
times ranked

41046
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Titania-based photocatalystsâ€™ crystal growth, doping and heterostructuring. Journal of Materials Chemistry, 2010, 20, 831-843. | 6.7 | 1,028 |
| 2 | Two-dimensional graphene analogues for biomedical applications. Chemical Society Reviews, 2015, 44, 2681-2701. | 18.7 | 786 |
| 3 | Recent advances in 2D materials for photocatalysis. Nanoscale, 2016, 8, 6904-6920. | 2.8 | 680 |
| 4 | Redoxable Nanosheet Crystallites of MnO ₂ Derived via Delamination of a Layered Manganese Oxide. Journal of the American Chemical Society, 2003, 125, 3568-3575. | 6.6 | 656 |
| 5 | Titanium Oxide Nanosheets: Graphene Analogues with Versatile Functionalities. Chemical Reviews, 2014, 114, 9455-9486. | 23.0 | 557 |
| 6 | Crystal Facet Engineering of Photoelectrodes for Photoelectrochemical Water Splitting. Chemical Reviews, 2019, 119, 5192-5247. | 23.0 | 551 |
| 7 | In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1706923. | 7.8 | 543 |
| 8 | Nitrogen-doped Ti ₃ C ₂ T _x MXene electrodes for high-performance supercapacitors. Nano Energy, 2017, 38, 368-376. | 8.2 | 528 |
| 9 | Selective Breaking of Hydrogen Bonds of Layered Carbon Nitride for Visible Light Photocatalysis. Advanced Materials, 2016, 28, 6471-6477. | 11.1 | 507 |
| 10 | Hollow Nanostructures for Photocatalysis: Advantages and Challenges. Advanced Materials, 2019, 31, e1801369. | 11.1 | 506 |
| 11 | Enhanced photocatalytic hydrogen evolution by prolonging the lifetime of carriers in ZnO/CdS heterostructures. Chemical Communications, 2009, , 3452. | 2.2 | 476 |
| 12 | Resistive Switching Behavior in Organicâ€“Inorganic Hybrid CH ₃ NH ₃ Pb ₃ Cl _x Perovskite for Resistive Random Access Memory Devices. Advanced Materials, 2015, 27, 6170-6175. | 11.1 | 469 |
| 13 | Inorganic perovskite photocatalysts for solar energy utilization. Chemical Society Reviews, 2016, 45, 5951-5984. | 18.7 | 434 |
| 14 | New BiVO ₄ Dual Photoanodes with Enriched Oxygen Vacancies for Efficient Solar-Driven Water Splitting. Advanced Materials, 2018, 30, e1800486. | 11.1 | 414 |
| 15 | Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs _{1-x} FAPbI ₃ quantum dot solar cells with reduced phase segregation. Nature Energy, 2020, 5, 79-88. | 19.8 | 412 |
| 16 | Breakup of Two-Dimensional MnO ₂ Nanosheets Promotes Ultrasensitive pH-Triggered Theranostics of Cancer. Advanced Materials, 2014, 26, 7019-7026. | 11.1 | 404 |
| 17 | Nanosized anatase TiO ₂ single crystals for enhanced photocatalytic activity. Chemical Communications, 2010, 46, 755-757. | 2.2 | 403 |
| 18 | Enhanced Photoactivity of Oxygen-Deficient Anatase TiO ₂ Sheets with Dominant {001} Facets. Journal of Physical Chemistry C, 2009, 113, 21784-21788. | 1.5 | 376 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | 2-Methylimidazole-Derived Ni ²⁺ /Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 15510-15524. | 4.0 | 374 |
| 20 | An Electrochemically Treated BiVO ₄ Photoanode for Efficient Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 8500-8504. | 7.2 | 369 |
| 21 | Organic-inorganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. Nano Research, 2016, 9, 692-702. | 5.8 | 351 |
| 22 | MoS ₂ /Graphene Nanosheets from Commercial Bulky MoS ₂ and Graphite as Anode Materials for High Rate Sodium-Ion Batteries. Advanced Energy Materials, 2018, 8, 1702383. | 10.2 | 350 |
| 23 | Hollow Mesoporous Organosilica Nanoparticles: A Generic Intelligent Framework-Hybridization Approach for Biomedicine. Journal of the American Chemical Society, 2014, 136, 16326-16334. | 6.6 | 338 |
| 24 | Twins in Cd ^{1-x} Zn _x S solid solution: Highly efficient photocatalyst for hydrogen generation from water. Energy and Environmental Science, 2011, 4, 1372. | 15.6 | 332 |
| 25 | Nitrogen Doped Sr ₂ Ta ₂ O ₇ Coupled with Graphene Sheets as Photocatalysts for Increased Photocatalytic Hydrogen Production. ACS Nano, 2011, 5, 3483-3492. | 7.3 | 315 |
| 26 | Non-metal doping of transition metal oxides for visible-light photocatalysis. Catalysis Today, 2014, 225, 111-135. | 2.2 | 311 |
| 27 | Design of Photobioreactors for Mass Cultivation of Photosynthetic Organisms. Engineering, 2017, 3, 318-329. | 3.2 | 310 |
| 28 | Addressing Toxicity of Lead: Progress and Applications of Low-Toxic Metal Halide Perovskites and Their Derivatives. Advanced Energy Materials, 2017, 7, 1602512. | 10.2 | 290 |
| 29 | Preparation and Characterization of ZnO Clusters inside Mesoporous Silica. Chemistry of Materials, 2000, 12, 1408-1413. | 3.2 | 287 |
| 30 | Band-to-Band Visible-Light Photon Excitation and Photoactivity Induced by Homogeneous Nitrogen Doping in Layered Titanates. Chemistry of Materials, 2009, 21, 1266-1274. | 3.2 | 284 |
| 31 | Artificial photosynthesis as a frontier technology for energy sustainability. Energy and Environmental Science, 2013, 6, 1074. | 15.6 | 284 |
| 32 | Stable Hematite Nanosheet Photoanodes for Enhanced Photoelectrochemical Water Splitting. Advanced Materials, 2016, 28, 6405-6410. | 11.1 | 275 |
| 33 | Understanding the Roles of Oxygen Vacancies in Hematite-Based Photoelectrochemical Processes. Angewandte Chemie - International Edition, 2019, 58, 1030-1034. | 7.2 | 268 |
| 34 | An Innovative Freeze-Dried Reduced Graphene Oxide Supported SnS ₂ Cathode Active Material for Aluminum-Ion Batteries. Advanced Materials, 2017, 29, 1606132. | 11.1 | 263 |
| 35 | g-C ₃ N ₄ based composite photocatalysts for photocatalytic CO ₂ reduction. Catalysis Today, 2018, 300, 160-172. | 2.2 | 263 |
| 36 | Periodic Mesoporous Organosilica Hollow Spheres with Tunable Wall Thickness. Journal of the American Chemical Society, 2006, 128, 6320-6321. | 6.6 | 262 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | A general, one-step and template-free synthesis of sphere-like zinc ferrite nanostructures with enhanced photocatalytic activity for dye degradation. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 102-108. | 5.0 | 250 |
| 38 | A Binder-free and Free-standing Cobalt Sulfide@Carbon Nanotube Cathode Material for Aluminum-ion Batteries. <i>Advanced Materials</i> , 2018, 30, 1703824. | 11.1 | 250 |
| 39 | New Iron-Cobalt Oxide Catalysts Promoting BiVO ₄ Films for Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1802685. | 7.8 | 248 |
| 40 | Carbon-Based Metal-Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. <i>Advanced Materials</i> , 2019, 31, e1805367. | 11.1 | 247 |
| 41 | Synergistic crystal facet engineering and structural control of WO ₃ films exhibiting unprecedented photoelectrochemical performance. <i>Nano Energy</i> , 2016, 24, 94-102. | 8.2 | 243 |
| 42 | Stable CoSe ₂ /carbon nanodice@reduced graphene oxide composites for high-performance rechargeable aluminum-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2341-2347. | 15.6 | 240 |
| 43 | In Situ Formation of Oxygen Vacancies Achieving Near-Complete Charge Separation in Planar BiVO ₄ Photoanodes. <i>Advanced Materials</i> , 2020, 32, e2001385. | 11.1 | 236 |
| 44 | An Unusual Strong Visible-Light Absorption Band in Red Anatase TiO ₂ Photocatalyst Induced by Atomic Hydrogen-Occupied Oxygen Vacancies. <i>Advanced Materials</i> , 2018, 30, 1704479. | 11.1 | 231 |
| 45 | Review on areal capacities and long-term cycling performances of lithium sulfur battery at high sulfur loading. <i>Energy Storage Materials</i> , 2019, 18, 289-310. | 9.5 | 231 |
| 46 | Synthesis of Phosphorus-Doped Graphene and its Wide Potential Window in Aqueous Supercapacitors. <i>Chemistry - A European Journal</i> , 2015, 21, 80-85. | 1.7 | 230 |
| 47 | Composition-dependent photoluminescence intensity and prolonged recombination lifetime of perovskite CH ₃ NH ₃ PbBr _{3-x} Cl _x films. <i>Chemical Communications</i> , 2014, 50, 11727-11730. | 2.2 | 225 |
| 48 | Oriented Built-in Electric Field Introduced by Surface Gradient Diffusion Doping for Enhanced Photocatalytic H ₂ Evolution in CdS Nanorods. <i>Nano Letters</i> , 2017, 17, 3803-3808. | 4.5 | 225 |
| 49 | Molten-Salt-Mediated Synthesis of an Atomic Nickel Co-catalyst on TiO ₂ for Improved Photocatalytic H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7230-7234. | 7.2 | 221 |
| 50 | In Situ Growth of a ZnO Nanowire Network within a TiO ₂ Nanoparticle Film for Enhanced Dye-Sensitized Solar Cell Performance. <i>Advanced Materials</i> , 2012, 24, 5850-5856. | 11.1 | 218 |
| 51 | A Freestanding 3D Heterostructure Film Stitched by MOF-Derived Carbon Nanotube Microsphere Superstructure and Reduced Graphene Oxide Sheets: A Superior Multifunctional Electrode for Overall Water Splitting and Zn-Air Batteries. <i>Advanced Materials</i> , 2020, 32, e2003313. | 11.1 | 216 |
| 52 | Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. <i>Advanced Materials</i> , 2020, 32, e1904717. | 11.1 | 213 |
| 53 | Shell-in-shell TiO ₂ hollow spheres synthesized by one-pot hydrothermal method for dye-sensitized solar cell application. <i>Energy and Environmental Science</i> , 2011, 4, 3565. | 15.6 | 212 |
| 54 | Two-dimensional non-carbonaceous materials-enabled efficient photothermal cancer therapy. <i>Nano Today</i> , 2016, 11, 292-308. | 6.2 | 210 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Positive and Negative Lattice Shielding Effects Co-existing in Gd (III) Ion Doped Bifunctional Upconversion Nanoprobes. <i>Advanced Functional Materials</i> , 2011, 21, 4285-4294. | 7.8 | 201 |
| 56 | Bismuth-based photocatalysts for solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24307-24352. | 5.2 | 200 |
| 57 | Synthesis of anatase TiO ₂ rods with dominant reactive {010} facets for the photoreduction of CO ₂ to CH ₄ and use in dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 8361. | 2.2 | 196 |
| 58 | Rational design of CdS@ZnO core-shell structure via atomic layer deposition for drastically enhanced photocatalytic H ₂ evolution with excellent photostability. <i>Nano Energy</i> , 2017, 39, 183-191. | 8.2 | 195 |
| 59 | Fabrication of Controllable Ultrathin Hollow Shells by Layer-by-Layer Assembly of Exfoliated Titania Nanosheets on Polymer Templates. <i>Chemistry of Materials</i> , 2002, 14, 4827-4832. | 3.2 | 192 |
| 60 | Novel Boron Nitride Hollow Nanoribbons. <i>ACS Nano</i> , 2008, 2, 2183-2191. | 7.3 | 192 |
| 61 | ZnO@CdS/Cd Heterostructure for Effective Photocatalytic Hydrogen Generation. <i>Advanced Energy Materials</i> , 2012, 2, 42-46. | 10.2 | 191 |
| 62 | Nanosized Anatase TiO ₂ Single Crystals with Tunable Exposed (001) Facets for Enhanced Energy Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 4167-4172. | 7.8 | 186 |
| 63 | Sandwich-Like Ultrathin TiS ₂ Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901872. | 10.2 | 186 |
| 64 | A study of the tribological behaviour of TiO ₂ nano-additive water-based lubricants. <i>Tribology International</i> , 2017, 109, 398-408. | 3.0 | 180 |
| 65 | Unique physicochemical properties of two-dimensional light absorbers facilitating photocatalysis. <i>Chemical Society Reviews</i> , 2018, 47, 6410-6444. | 18.7 | 178 |
| 66 | Carbon-vacancy modified graphitic carbon nitride: enhanced CO ₂ photocatalytic reduction performance and mechanism probing. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1556-1563. | 5.2 | 178 |
| 67 | Recent Progress on Visible Light Responsive Heterojunctions for Photocatalytic Applications. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1-22. | 5.6 | 176 |
| 68 | 2D Porous TiO ₂ Single-Crystalline Nanostructure Demonstrating High Photo-Electrochemical Water Splitting Performance. <i>Advanced Materials</i> , 2018, 30, e1705666. | 11.1 | 176 |
| 69 | Boron-doped graphitic carbon nitride nanosheets for enhanced visible light photocatalytic water splitting. <i>Dalton Transactions</i> , 2017, 46, 10714-10720. | 1.6 | 175 |
| 70 | Fabrication and Characterization of Multilayer Ultrathin Films of Exfoliated MnO ₂ Nanosheets and Polycations. <i>Chemistry of Materials</i> , 2003, 15, 2873-2878. | 3.2 | 173 |
| 71 | Hollow Anatase TiO ₂ Single Crystals and Mesocrystals with Dominant {101} Facets for Improved Photocatalysis Activity and Tuned Reaction Preference. <i>ACS Catalysis</i> , 2012, 2, 1854-1859. | 5.5 | 172 |
| 72 | Stacking-Layer-Number Dependence of Water Adsorption in 3D Ordered Close-Packed g-C ₃ N ₄ Nanosphere Arrays for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4587-4591. | 7.2 | 172 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. <i>Joule</i> , 2021, 5, 344-359. | 11.7 | 165 |
| 74 | Recent Progress on Integrated Energy Conversion and Storage Systems. <i>Advanced Science</i> , 2017, 4, 1700104. | 5.6 | 162 |
| 75 | Carbon-Coated $\text{Na}_{3.32}\text{Fe}_{2.34}(\text{P}_2\text{O}_7)_2$ Cathode Material for High-Rate and Long-Life Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1605535. | 11.1 | 161 |
| 76 | Lithiation-Induced Vacancy Engineering of Co_3O_4 with Improved Faradic Reactivity for High-Performance Supercapacitor. <i>Advanced Functional Materials</i> , 2020, 30, 2004172. | 7.8 | 156 |
| 77 | High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , 2019, 31, 5238-5244. | 3.2 | 153 |
| 78 | Understanding the Origin of Li_2MnO_3 Activation in Li-Rich Cathode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 7488-7496. | 7.8 | 151 |
| 79 | Polar interface-induced improvement in high photocatalytic hydrogen evolution over ZnO/CdS heterostructures. <i>Energy and Environmental Science</i> , 2011, 4, 3976. | 15.6 | 147 |
| 80 | Bifunctional resistive switching behavior in an organolead halide perovskite based $\text{Ag}/\text{CH}_3\text{NH}_3\text{PbI}_3/\text{Cl}/\text{FTO}$ structure. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7824-7830. | 2.7 | 145 |
| 81 | Solar energy conversion on g-C ₃ N ₄ photocatalyst: Light harvesting, charge separation, and surface kinetics. <i>Journal of Energy Chemistry</i> , 2018, 27, 1111-1123. | 7.1 | 144 |
| 82 | Au decorated hollow ZnO/ZnS heterostructure for enhanced photocatalytic hydrogen evolution: The insight into the roles of hollow channel and Au nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 748-757. | 10.8 | 144 |
| 83 | Activation of Photocatalytic Water Oxidation on N-Doped ZnO Bundle-like Nanoparticles under Visible Light. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4937-4942. | 1.5 | 143 |
| 84 | Two-dimensional g-C ₃ N ₄ /Ca ₂ Nb ₂ TaO ₁₀ nanosheet composites for efficient visible light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 184-190. | 10.8 | 143 |
| 85 | 3D Hierarchical Rutile TiO_2 and Metal-free Organic Sensitizer Producing Dye-sensitized Solar Cells 8.6% Conversion Efficiency. <i>Scientific Reports</i> , 2014, 4, 5769. | 1.6 | 142 |
| 86 | Characterization of MCM-41 mesoporous molecular sieves containing copper and zinc and their catalytic performance in the selective oxidation of alcohols to aldehydes. <i>Microporous and Mesoporous Materials</i> , 2002, 54, 113-126. | 2.2 | 139 |
| 87 | Cyclic Voltammetry in Lithium-Sulfur Batteries—Challenges and Opportunities. <i>Energy Technology</i> , 2019, 7, 1801001. | 1.8 | 138 |
| 88 | Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. <i>Science</i> , 2021, 374, 621-625. | 6.0 | 137 |
| 89 | Tin nanoparticles encapsulated in graphene backboned carbonaceous foams as high-performance anodes for lithium-ion and sodium-ion storage. <i>Nano Energy</i> , 2016, 22, 232-240. | 8.2 | 136 |
| 90 | N-Doped CsTaWO_6 as a New Photocatalyst for Hydrogen Production from Water Splitting Under Solar Irradiation. <i>Advanced Functional Materials</i> , 2011, 21, 126-132. | 7.8 | 135 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | Synthesis of a Li ⁺ Mn-oxide with Disordered Layer Stacking through Flocculation of Exfoliated MnO ₂ Nanosheets, and Its Electrochemical Properties. <i>Chemistry of Materials</i> , 2003, 15, 4508-4514. | 3.2 | 130 |
| 92 | Electronic and optical properties of lead-free hybrid double perovskites for photovoltaic and optoelectronic applications. <i>Scientific Reports</i> , 2019, 9, 718. | 1.6 | 130 |
| 93 | Enhanced perovskite electronic properties via a modified lead(II) chloride Lewis acid–base adduct and their effect in high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5195-5203. | 5.2 | 128 |
| 94 | Integrated Photorechargeable Energy Storage System: Next-Generation Power Source Driving the Future. <i>Advanced Energy Materials</i> , 2020, 10, 1903930. | 10.2 | 128 |
| 95 | Surface Chemistry Engineering of Perovskite Quantum Dots: Strategies, Applications, and Perspectives. <i>Advanced Materials</i> , 2022, 34, e2105958. | 11.1 | 128 |
| 96 | Iodine doped anatase TiO ₂ photocatalyst with ultra-long visible light response: correlation between geometric/electronic structures and mechanisms. <i>Journal of Materials Chemistry</i> , 2009, 19, 2822. | 6.7 | 127 |
| 97 | Facile Synthesis of Highly Efficient One-Dimensional Plasmonic Photocatalysts through Ag@Cu ₂ O Core–Shell Heteronanowires. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15716-15725. | 4.0 | 127 |
| 98 | Enhanced CO ₂ photocatalytic reduction on alkali-decorated graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 146-155. | 10.8 | 127 |
| 99 | Friction and wear characteristics of TiO ₂ nano-additive water-based lubricant on ferritic stainless steel. <i>Tribology International</i> , 2018, 117, 24-38. | 3.0 | 126 |
| 100 | Understanding of carrier dynamics, heterojunction merits and device physics: towards designing efficient carrier transport layer-free perovskite solar cells. <i>Chemical Society Reviews</i> , 2020, 49, 354-381. | 18.7 | 125 |
| 101 | Tantalum (oxy)nitride based photoanodes for solar-driven water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2783-2800. | 5.2 | 120 |
| 102 | Preparation and characterization of sulfonated polyethersulfone for cation-exchange membranes. <i>Journal of Membrane Science</i> , 2011, 368, 48-53. | 4.1 | 118 |
| 103 | Engineering the trap effect of residual oxygen atoms and defects in hard carbon anode towards high initial Coulombic efficiency. <i>Nano Energy</i> , 2019, 64, 103937. | 8.2 | 118 |
| 104 | Visible-Light Responsive TiO ₂ -Based Materials for Efficient Solar Energy Utilization. <i>Advanced Energy Materials</i> , 2021, 11, 2003303. | 10.2 | 118 |
| 105 | Controllable growth of SnS ₂ nanostructures on nanocarbon surfaces for lithium-ion and sodium-ion storage with high rate capability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1462-1472. | 5.2 | 117 |
| 106 | Thin-Layered Photocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 1910005. | 7.8 | 117 |
| 107 | Faster Activation and Slower Capacity/Voltage Fading: A Bifunctional Urea Treatment on Lithium-Rich Cathode Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1909192. | 7.8 | 117 |
| 108 | Photocatalytic TiO ₂ /adsorbent nanocomposites prepared via wet chemical impregnation for wastewater treatment: A review. <i>Applied Catalysis A: General</i> , 2009, 371, 1-9. | 2.2 | 116 |

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|-----|---|------|-----------|
| 109 | Efficient Promotion of Anatase TiO ₂ Photocatalysis via Bifunctional Surface-Terminating Ti ³⁺ O ²⁺ B ³⁺ N Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12317-12324. | 1.5 | 115 |
| 110 | Photocatalytic degradation of gaseous toluene over ZnAl ₂ O ₄ prepared by different methods: A comparative study. <i>Journal of Hazardous Materials</i> , 2011, 186, 2089-2096. | 6.5 | 115 |
| 111 | Template-free synthesis of Ta ₃ N ₅ nanorod arrays for efficient photoelectrochemical water splitting. <i>Chemical Communications</i> , 2013, 49, 3019. | 2.2 | 115 |
| 112 | Multifunctional Graphene Oxide-based Triple Stimuli-responsive Nanotheranostics. <i>Advanced Functional Materials</i> , 2014, 24, 4386-4396. | 7.8 | 115 |
| 113 | Lithium and Sodium Storage on Graphitic Carbon Nitride. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21921-21927. | 1.5 | 115 |
| 114 | Enhanced CH ₄ selectivity in CO ₂ photocatalytic reduction over carbon quantum dots decorated and oxygen doping g-C ₃ N ₄ . <i>Nano Research</i> , 2019, 12, 2749-2759. | 5.8 | 115 |
| 115 | Low-temperature synthesis of CdS/TiO ₂ composite photocatalysts: Influence of synthetic procedure on photocatalytic activity under visible light. <i>Journal of Molecular Catalysis A</i> , 2012, 356, 53-60. | 4.8 | 114 |
| 116 | Fabrication of g-C ₃ N ₄ /Au/CdS/TiO ₂ Hollow Structures as Visible-Light-Driven Z-scheme Photocatalysts with Enhanced Photocatalytic H ₂ Evolution. <i>ChemCatChem</i> , 2017, 9, 3752-3761. | 1.8 | 114 |
| 117 | CsPb(I Br) ₃ solar cells. <i>Science Bulletin</i> , 2019, 64, 1532-1539. | 4.3 | 114 |
| 118 | New Binder-free Metal Phosphide-carbon Felt Composite Anodes for Sodium-ion Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1801197. | 10.2 | 113 |
| 119 | Synthesis of rutile-anatase core-shell structured TiO ₂ for photocatalysis. <i>Journal of Materials Chemistry</i> , 2009, 19, 6590. | 6.7 | 112 |
| 120 | Sulfur doped anatase TiO ₂ single crystals with a high percentage of {0 0 1} facets. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 477-483. | 5.0 | 112 |
| 121 | Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 1231-1240. | 8.8 | 111 |
| 122 | Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. <i>Journal of Materials Chemistry</i> , 2012, 22, 15522. | 6.7 | 110 |
| 123 | Nanoparticles enwrapped with nanotubes: A unique architecture of CdS/titanate nanotubes for efficient photocatalytic hydrogen production from water. <i>Journal of Materials Chemistry</i> , 2011, 21, 5134. | 6.7 | 108 |
| 124 | MXene derived TiS ₂ nanosheets for high-rate and long-life sodium-ion capacitors. <i>Energy Storage Materials</i> , 2020, 26, 550-559. | 9.5 | 108 |
| 125 | Lattice distortion induced internal electric field in TiO ₂ photoelectrode for efficient charge separation and transfer. <i>Nature Communications</i> , 2020, 11, 2129. | 5.8 | 108 |
| 126 | TiO ₂ films with oriented anatase {001} facets and their photoelectrochemical behavior as CdS nanoparticle sensitized photoanodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 869-873. | 6.7 | 107 |

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|-----|--|------|-----------|
| 127 | A General Single-Source Route for the Preparation of Hollow Nanoporous Metal Oxide Structures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7048-7051. | 7.2 | 106 |
| 128 | Stable and Low-Cost Mesoscopic CH ₃ NH ₃ PbI ₂ Br Perovskite Solar Cells by using a Thin Poly(3-hexylthiophene) Layer as a Hole Transporter. <i>Chemistry - A European Journal</i> , 2015, 21, 434-439. | 1.7 | 106 |
| 129 | An Electrochemically Treated BiVO ₄ Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , 2017, 129, 8620-8624. | 1.6 | 106 |
| 130 | Comparative photocatalytic degradation of estrone in water by ZnO and TiO ₂ under artificial UVA and solar irradiation. <i>Chemical Engineering Journal</i> , 2012, 213, 150-162. | 6.6 | 105 |
| 131 | Unique Advantages of Exfoliated 2D Nanosheets for Tailoring the Functionalities of Nanocomposites. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4149-4161. | 2.1 | 104 |
| 132 | Confining ultrafine tin monophosphide in Ti ₃ C ₂ T _x interlayers for rapid and stable sodium ion storage. <i>EScience</i> , 2021, 1, 203-211. | 25.0 | 103 |
| 133 | Yolk-shell Si/C composites with multiple Si nanoparticles encapsulated into double carbon shells as lithium-ion battery anodes. <i>Journal of Energy Chemistry</i> , 2019, 32, 124-130. | 7.1 | 102 |
| 134 | Self-Assembled Multilayers of Titania Nanoparticles and Nanosheets with Polyelectrolytes. <i>Chemistry of Materials</i> , 2003, 15, 807-812. | 3.2 | 99 |
| 135 | Progress and Perspective in Low-Dimensional Metal Halide Perovskites for Optoelectronic Applications. <i>Solar Rrl</i> , 2018, 2, 1700186. | 3.1 | 98 |
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