

Qiang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,179
citations

159525

30
h-index

155592

55
g-index

72
all docs

72
docs citations

72
times ranked

5144
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Design of two-dimensional halide perovskite composites for optoelectronic applications and beyond. <i>Materials Advances</i> , 2022, 3, 756-778. | 2.6 | 14 |
| 2 | Defect Engineering of Ultrathin WO ₃ Nanosheets: Implications for Nonlinear Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2022, 5, 1169-1177. | 2.4 | 15 |
| 3 | Ultrafast Generation of Coherent Phonons in Two-Dimensional Bismuthene. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3072-3078. | 2.1 | 5 |
| 4 | Carbon nano-onion encapsulated cobalt nanoparticles for oxygen reduction and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7227-7237. | 5.2 | 21 |
| 5 | Rational synthesis of novel CuInTeSe/CdS core/shell quantum dots for optoelectronics. <i>Nanoscale</i> , 2021, 13, 15301-15310. | 2.8 | 3 |
| 6 | Unveiling the dimension-dependence of femtosecond nonlinear optical properties of tellurium nanostructures. <i>Nanoscale Horizons</i> , 2021, 6, 918-927. | 4.1 | 12 |
| 7 | In situ observation of the crystal structure transition of Pt-Sn intermetallic nanoparticles during deactivation and regeneration. <i>Chemical Communications</i> , 2021, 57, 5454-5457. | 2.2 | 2 |
| 8 | Two-Dimensional Bismuthene Showing Radiation-Tolerant Third-Order Optical Nonlinearities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21626-21634. | 4.0 | 19 |
| 9 | The Renaissance of One Ancient Recipe for Synthesizing Luminescent Cs ₄ PbBr ₆ Microcrystals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100169. | 1.2 | 2 |
| 10 | Boosting Cascade Electron Transfer for Highly Efficient CO ₂ Photoreduction. <i>Solar Rrl</i> , 2021, 5, 2100558. | 3.1 | 11 |
| 11 | Understanding the Role of Oxygen and Hydrogen Defects in Modulating the Optoelectronic Properties of P-Type Metal Oxide Semiconductors. <i>Chemistry of Materials</i> , 2021, 33, 7829-7838. | 3.2 | 12 |
| 12 | Template-free synthesis of a yolk-shell Co ₃ O ₄ /nitrogen-doped carbon microstructure for excellent lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24548-24559. | 5.2 | 18 |
| 13 | Antimonene-based flexible photodetector. <i>Nanoscale Horizons</i> , 2020, 5, 124-130. | 4.1 | 51 |
| 14 | Tunable nonlinear optical responses and carrier dynamics of two-dimensional antimonene nanosheets. <i>Nanoscale Horizons</i> , 2020, 5, 1420-1429. | 4.1 | 15 |
| 15 | Manipulating the Optoelectronic Properties of Quasi-type II CuInS ₂ /CdS Core/Shell Quantum Dots for Photoelectrochemical Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36277-36286. | 4.0 | 23 |
| 16 | 2D materials towards ultrafast photonic applications. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22140-22156. | 1.3 | 38 |
| 17 | Fluorescence Lifetime-Tunable Water-Resistant Perovskite Quantum Dots for Multidimensional Encryption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43073-43082. | 4.0 | 30 |
| 18 | Selective Photocatalytic Hydrogenation of α,β -Unsaturated Aldehydes on Au/CuCo ₂ O ₄ Nanotubes under Visible-Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8288-8294. | 3.2 | 21 |

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|----|--|-----|-----------|
| 19 | In Situ Growth of 3D/2D (CsPbBr ₃ /CsPb ₂ Br ₅) Perovskite Heterojunctions toward Optoelectronic Devices. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6007-6015. | 2.1 | 54 |
| 20 | Solution-phase vertical growth of aligned NiCo ₂ O ₄ nanosheet arrays on Au nanosheets with weakened oxygen-hydrogen bonds for photocatalytic oxygen evolution. <i>Nanoscale</i> , 2020, 12, 6195-6203. | 2.8 | 23 |
| 21 | <i>In situ</i> growth of luminescent perovskite fibers in natural hollow templates. <i>Chemical Communications</i> , 2019, 55, 11056-11058. | 2.2 | 6 |
| 22 | Disentangling the Luminescent Mechanism of Cs ₄ PbBr ₆ Single Crystals from an Ultrafast Dynamics Perspective. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6572-6577. | 2.1 | 29 |
| 23 | In Situ Integration of ReS ₂ /Ni ₃ S ₂ p-n Heterostructure for Enhanced Photoelectrocatalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40014-40021. | 4.0 | 37 |
| 24 | Confinement effect of natural hollow fibers enhances flexible supercapacitor electrode performance. <i>Electrochimica Acta</i> , 2018, 260, 204-211. | 2.6 | 22 |
| 25 | 2D bismuthene fabricated <i>via</i> acid-intercalated exfoliation showing strong nonlinear near-infrared responses for mode-locking lasers. <i>Nanoscale</i> , 2018, 10, 21106-21115. | 2.8 | 115 |
| 26 | Construction of Au/CuO/Co ₃ O ₄ Tricomponent Heterojunction Nanotubes for Enhanced Photocatalytic Oxygen Evolution under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8801-8808. | 3.2 | 30 |
| 27 | Negatively charged 2D black phosphorus for highly efficient covalent functionalization. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1700-1706. | 3.2 | 56 |
| 28 | Solvent-Free Mechanochemistry of Composition-Tunable Cesium Lead Halide Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1610-1614. | 2.1 | 173 |
| 29 | Disentangling the Photocatalytic Hydrogen Evolution Mechanism of One Homogeneous Cobalt-Coordinated Polymer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28456-28462. | 1.5 | 11 |
| 30 | Preparation of large size, few-layer black phosphorus nanosheets via phytic acid-assisted liquid exfoliation. <i>Chemical Communications</i> , 2016, 52, 8107-8110. | 2.2 | 86 |
| 31 | Small molecule-assisted fabrication of black phosphorus quantum dots with a broadband nonlinear optical response. <i>Nanoscale</i> , 2016, 8, 15132-15136. | 2.8 | 71 |
| 32 | Iron-Doped Carbon Nitride-Type Polymers as Homogeneous Organocatalysts for Visible Light-Driven Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 617-624. | 4.0 | 135 |
| 33 | Developing carbon-nitride nanosheets for mode-locking ytterbium fiber lasers. <i>Optics Letters</i> , 2016, 41, 1221. | 1.7 | 23 |
| 34 | In situ preparation of a MOF-derived magnetic carbonaceous catalyst for visible-light-driven hydrogen evolution. <i>RSC Advances</i> , 2016, 6, 2011-2018. | 1.7 | 35 |
| 35 | Well-controlled layer-by-layer assembly of carbon dot/CdS heterojunctions for efficient visible-light-driven photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16613-16620. | 5.2 | 66 |
| 36 | Controlled engineering of WS ₂ nanosheets-CdS nanoparticle heterojunction with enhanced photoelectrochemical activity. <i>Solar Energy Materials and Solar Cells</i> , 2015, 141, 260-269. | 3.0 | 55 |

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|----|--|------|-----------|
| 37 | Unexpected optical limiting properties from MoS ₂ nanosheets modified by a semiconductive polymer. <i>Chemical Communications</i> , 2015, 51, 12262-12265. | 2.2 | 60 |
| 38 | Broadband optical limiting response of a graphene/PbS nanohybrid. <i>Nanoscale</i> , 2015, 7, 9268-9274. | 2.8 | 61 |
| 39 | Singlet fission induced giant optical limiting responses of pentacene derivatives. <i>Materials Horizons</i> , 2015, 2, 619-624. | 6.4 | 29 |
| 40 | Rational design of small indolic squaraine dyes with large two-photon absorption cross section. <i>Chemical Science</i> , 2015, 6, 761-769. | 3.7 | 69 |
| 41 | Size-Dependent Nonlinear Optical Properties of Atomically Thin Transition Metal Dichalcogenide Nanosheets. <i>Small</i> , 2015, 11, 694-701. | 5.2 | 160 |
| 42 | One-Pot Synthesis of Highly Luminescent Carbon Quantum Dots and Their Nontoxic Ingestion by Zebrafish for In Vivo Imaging. <i>Chemistry - A European Journal</i> , 2014, 20, 5640-5648. | 1.7 | 74 |
| 43 | Mitigation of metal-mediated losses by coating Au nanoparticles with dielectric layer in plasmonic solar cells. <i>RSC Advances</i> , 2013, 3, 16080. | 1.7 | 21 |
| 44 | Understanding the Unconventional Effects of Halogenation on the Luminescent Properties of Oligo(Phenylene Vinylene) Molecules. <i>Chemistry - an Asian Journal</i> , 2013, 8, 3091-3100. | 1.7 | 27 |
| 45 | K7[CoII(Coll)(H2O)W11O39]: a molecular mixed-valence Keggin polyoxometalate catalyst of high stability and efficiency for visible light-driven water oxidation. <i>Energy and Environmental Science</i> , 2013, 6, 1170. | 15.6 | 285 |
| 46 | Improved synthesis of PbS _x Se _{1-x} ternary alloy nanocrystals and their nonlinear optical properties. <i>New Journal of Chemistry</i> , 2013, 37, 1692. | 1.4 | 12 |
| 47 | Graphene in Light: Design, Synthesis and Applications of Photoactive Graphene and Graphene-Like Materials. <i>Small</i> , 2013, 9, 1266-1283. | 5.2 | 129 |
| 48 | Core-shell plasmonic nanostructures to fine-tune long Au nanoparticle-fluorophore distance and radiative dynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 421, 101-108. | 2.3 | 27 |
| 49 | A Facile Phosphine-Free Method for Synthesizing PbSe Nanocrystals with Strong Optical Limiting Effects. <i>Chemistry - an Asian Journal</i> , 2013, 8, 912-918. | 1.7 | 15 |
| 50 | Arsenic Precipitation in the Bioleaching of Realgar Using <i>Acidithiobacillus ferrooxidans</i> . <i>Hindawi Journal of Chemistry</i> , 2013, 2013, 1-5. | 1.6 | 7 |
| 51 | DFT Study on the Mechanism of PtCl ₂ -Catalyzed Rearrangement of Cyclopropenes to Allenes. <i>Organometallics</i> , 2012, 31, 4020-4030. | 1.1 | 13 |
| 52 | Electrochemical properties of nanostructured cobalt hexacyanoferrate containing K ⁺ and Cs ⁺ synthesized in water-in-oil AOT reverse microemulsions. <i>Journal of Electroanalytical Chemistry</i> , 2012, 674, 30-37. | 1.9 | 7 |
| 53 | Surface alteration of realgar (As ₄ S ₄) by <i>Acidithiobacillus ferrooxidans</i> . <i>International Microbiology</i> , 2012, 15, 9-15. | 1.1 | 10 |
| 54 | Distinct exciton migration pathways induced by steric hindrance in Langmuir-Blodgett films of two novel cruciform molecular wires. <i>Chemical Physics Letters</i> , 2011, 518, 65-69. | 1.2 | 4 |

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|----|--|-----|-----------|
| 55 | Spectroscopic and molecular modeling evidence of clozapine binding to human serum albumin at subdomain IIA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1202-1209. | 2.0 | 42 |
| 56 | A Simple Method for the Synthesis of Fe-Co Prussian Blue Analogue with Novel Morphologies, Different Structures, and Dielectric Properties. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 1108-1113. | 0.6 | 6 |
| 57 | Magnetism study of $Cl_xCo_y[Fe(CN)_6]_z \cdot nH_2O$ ($Cl=Rb,Cs$) Prussian blue nanoparticles. <i>Journal of the Iranian Chemical Society</i> , 2010, 7, S123-S129. | 1.2 | 5 |
| 58 | Strong Two-Photon Excited Fluorescence and Stimulated Emission from an Organic Single Crystal of an Oligo(Phenylene Vinylene). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 732-735. | 7.2 | 119 |
| 59 | Structure and Photoinduced Electron Transfer in DNA Hairpin Conjugates Possessing a Tethered 5'-Pyrenecarboxamide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16276-16284. | 1.2 | 24 |
| 60 | Dynamics of Photochemical Electron Injection and Efficiency of Electron Transport in DNA. <i>Journal of the American Chemical Society</i> , 2009, 131, 16790-16797. | 6.6 | 37 |
| 61 | Getting to guanine: mechanism and dynamics of charge separation and charge recombination in DNA revisited. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 534-539. | 1.6 | 36 |
| 62 | Photoinduced charge separation in pyrenedicarboxamide-linked DNA hairpins. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 1501. | 1.6 | 13 |
| 63 | Reversible Bridge-Mediated Excited-State Symmetry Breaking in Stilbene-Linked DNA Dumbbells. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3838-3843. | 1.2 | 33 |
| 64 | Electronic energy delocalization and dissipation in single- and double-stranded DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4794-4797. | 3.3 | 168 |
| 65 | Molecular Wire Behavior in π -Stacked Donor-Bridge-Acceptor Tertiary Arylureas. <i>Journal of the American Chemical Society</i> , 2007, 129, 9848-9849. | 6.6 | 45 |
| 66 | Ultrafast Energy Delocalization and Electron Transfer Dynamics in 2-Aminopurine-Containing Trinucleotides. <i>Photochemistry and Photobiology</i> , 2007, 83, 637-641. | 1.3 | 5 |
| 67 | DNA Photonics - Probing Light-Induced Dynamics in DNA on the Femtosecond Timescale. <i>Nanoscience and Technology</i> , 2007, , 221-248. | 1.5 | 1 |
| 68 | Dynamics and Mechanism of Bridge-Dependent Charge Separation in Pyrenylurea-Nitrobenzene π -Stacked Protophanes. <i>Journal of the American Chemical Society</i> , 2006, 128, 4792-4801. | 6.6 | 30 |
| 69 | Crossover from Superexchange to Hopping as the Mechanism for Photoinduced Charge Transfer in DNA Hairpin Conjugates. <i>Journal of the American Chemical Society</i> , 2006, 128, 791-800. | 6.6 | 164 |
| 70 | Base pair motions control the rates and distance dependencies of reductive and oxidative DNA charge transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10192-10195. | 3.3 | 72 |
| 71 | Determination of carbohydrates as their 3-aminophthalhydrazide derivatives by capillary zone electrophoresis with on-line chemiluminescence detection. <i>Journal of Chromatography A</i> , 2003, 992, 181-191. | 1.8 | 28 |