# Yun Wang

## 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.

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|---|---|---|---|
| 195 papers | 10,629 citations | 51 h-index | 99 g-index |
| 206 ext. papers | 12,747 ext. citations | 9.6 avg, IF | 6.39 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 195 | Photocatalytic Hydrogen Production **2022**, 415-483 | | |
| 194 | TMN4 complex embedded graphene as efficient and selective electrocatalysts for chlorine evolution reactions. *Journal of Electroanalytical Chemistry*, **2022**, 907, 116071 | 4.1 | 4 |
| 193 | Theoretical understanding of electronic and mechanical properties of 1T transition metal dichalcogenide crystals.. *Beilstein Journal of Nanotechnology*, **2022**, 13, 160-171 | 3 | 1 |
| 192 | Highly efficient removal of Cr(VI) by hexapod-like pyrite nanosheet clusters. *Journal of Hazardous Materials*, **2022**, 424, 127504 | 12.8 | 2 |
| 191 | Insightful understanding of charge transfer processes in metalated phthalocyanines.. *Physical Chemistry Chemical Physics*, **2022**, 24, 7635-7641 | 3.6 | |
| 190 | Arsenene Monolayer: A Promising Electrocatalyst for Anodic Chlorine Evolution Reaction. *Catalysts*, **2022**, 12, 296 | 4 | 0 |
| 189 | Operando Converting BiOCl into BiO(CO)Cl for Efficient Electrocatalytic Reduction of Carbon Dioxide to Formate.. *Nano-Micro Letters*, **2022**, 14, 121 | 19.5 | 0 |
| 188 | The Role of Steps on Silver Nanoparticles in Electrocatalytic Oxygen Reduction. *Catalysts*, **2022**, 12, 576 | 4 | 1 |
| 187 | Rational design of metal oxide catalysts for electrocatalytic water splitting. *Nanoscale*, **2021**, | 7.7 | 7 |
| 186 | Reinvestigating oxygen adsorption on Ag(111) by using strongly constrained and appropriately normed semi-local density functional with the revised Vydrov van Voorhis van der Waals force correction.. *Journal of Chemical Physics*, **2021**, 155, 234704 | 3.9 | 2 |
| 185 | Engineering Crystallinity and Oxygen Vacancies of Co(II) Oxide Nanosheets for High Performance and Robust Rechargeable Zn Air Batteries. *Advanced Functional Materials*, **2021**, 31, 2101239 | 15.6 | 52 |
| 184 | Grey hematite photoanodes decrease the onset potential in photoelectrochemical water oxidation. *Science Bulletin*, **2021**, 66, 1013-1021 | 10.6 | 4 |
| 183 | Mechanical properties of lateral transition metal dichalcogenide heterostructures. *Frontiers of Physics*, **2021**, 16, 1 | 3.7 | 5 |
| 182 | Numerical Simulation of Electrified Solid iquid Interfaces **2021**, 1-18 | | |
| 181 | Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. *Energy and Environmental Science*, **2021**, 14, 3502-3509 | 35.4 | 14 |
| 180 | Theory Experiment Gap **2021**, 1-14 | | 1 |
| 179 | Anchoring Single Copper Atoms to Microporous Carbon Spheres as High-Performance Electrocatalyst for Oxygen Reduction Reaction. *Advanced Functional Materials*, **2021**, 31, 2104864 | 15.6 | 19 |

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|---|---|---|---|
| 178 | Oxygen-terminated M4X3 MXenes with superior mechanical strength. *Mechanics of Materials*, **2021**, 160, 103957 | 3.3 | 3 |
| 177 | Cesium-doped Ti3C2Tx MXene for efficient and thermally stable perovskite solar cells. *Cell Reports Physical Science*, **2021**, 2, 100598 | 6.1 | 6 |
| 176 | Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. *Nano Energy*, **2021**, 90, 106488 | 17.1 | 9 |
| 175 | Multiscale numerical simulation of in-plane mechanical properties of two-dimensional monolayers.. *RSC Advances*, **2021**, 11, 20232-20247 | 3.7 | 3 |
| 174 | Theoretical understanding of the properties of stepped iron surfaces with van der Waals interaction corrections. *Physical Chemistry Chemical Physics*, **2021**, 23, 2649-2657 | 3.6 | 2 |
| 173 | Reliably Probing the Conductance of a Molecule in a Cavity via van der Waals Contacts. *Journal of Physical Chemistry C*, **2020**, 124, 16143-16148 | 3.8 | 7 |
| 172 | Aluminium-induced component engineering of mesoporous composite materials for low-temperature NH3-SCR. *Communications Chemistry*, **2020**, 3, | 6.3 | 5 |
| 171 | Lattice-compressed and N-doped Co nanoparticles to boost oxygen reduction reaction for zinc-air batteries. *Applied Surface Science*, **2020**, 525, 146491 | 6.7 | 9 |
| 170 | Effect of Structural Phases on Mechanical Properties of Molybdenum Disulfide. *ACS Omega*, **2020**, 5, 5994-6002 | 3.9 | 21 |
| 169 | How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. *Cell Reports Physical Science*, **2020**, 1, 100077 | 6.1 | 15 |
| 168 | Phosphorus and Sulfur Co-Doped Cobaltous Oxide Synthesized by an Inorganic-Salt-Assisted Method: Reaction Mechanism and Electrocatalytic Application. *ChemPlusChem*, **2020**, 85, 1602-1611 | 2.8 | 2 |
| 167 | Surface oxidized two-dimensional antimonene nanosheets for electrochemical ammonia synthesis under ambient conditions. *Journal of Materials Chemistry A*, **2020**, 8, 4735-4739 | 13 | 37 |
| 166 | Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs1⊠FAxPbI3 quantum dot solar cells with reduced phase segregation. *Nature Energy*, **2020**, 5, 79-88 | 62.3 | 237 |
| 165 | Bottom-Up Fabrication of a Sandwich-Like Carbon/Graphene Heterostructure with Built-In FeNC Dopants as Non-Noble Electrocatalyst for Oxygen Reduction Reaction. *Chemistry - an Asian Journal*, **2020**, 15, 432-439 | 4.5 | 9 |
| 164 | An efficient defect engineering strategy to enhance catalytic performances of CoO nanorods for CO oxidation. *Journal of Hazardous Materials*, **2020**, 394, 122540 | 12.8 | 16 |
| 163 | An inverted BiI3/PCBM binary quasi-bulk heterojunction solar cell with a power conversion efficiency of 1.50%. *Nano Energy*, **2020**, 73, 104799 | 17.1 | 11 |
| 162 | Super strong 2D titanium carbide MXene-based materials: a theoretical prediction. *Journal of Physics Condensed Matter*, **2020**, 32, 11LT01 | 1.8 | 8 |
| 161 | Effects of compositional engineering and surface passivation on the properties of halide perovskites: a theoretical understanding. *Physical Chemistry Chemical Physics*, **2020**, 22, 19718-19724 | 3.6 | 4 |

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|---|---|---|---|
| 160 | Selective Growth of High-Density Anatase {101} Twin Boundaries on High-Energy {001} Facets. *Small Structures*, **2020**, 1, 2000025 | 8.7 | 10 |
| 159 | Surface chelation of cesium halide perovskite by dithiocarbamate for efficient and stable solar cells. *Nature Communications*, **2020**, 11, 4237 | 17.4 | 62 |
| 158 | Coexisting Single-Atomic Fe and Ni Sites on Hierarchically Ordered Porous Carbon as a Highly Efficient ORR Electrocatalyst. *Advanced Materials*, **2020**, 32, e2004670 | 24 | 170 |
| 157 | Theoretical Understanding of Electrocatalytic Hydrogen Production Performance by Low-Dimensional Metal-Organic Frameworks on the Basis of Resonant Charge-Transfer Mechanisms. *Journal of Physical Chemistry Letters*, **2019**, 10, 6955-6961 | 6.4 | 4 |
| 156 | Construction of a sp3/sp2 Carbon Interface in 3D N-Doped Nanocarbons for the Oxygen Reduction Reaction. *Angewandte Chemie*, **2019**, 131, 15233-15241 | 3.6 | 30 |
| 155 | Construction of a sp /sp Carbon Interface in 3D N-Doped Nanocarbons for the Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 15089-15097 | 16.4 | 110 |
| 154 | General strategy toward hexagonal ring-like layered double hydroxides and their application for asymmetric supercapacitors. *Chemical Engineering Journal*, **2019**, 375, 121926 | 14.7 | 32 |
| 153 | Molecular discovery of half-metallic one-dimensional metal-organic framework. *Journal of Applied Physics*, **2019**, 125, 142906 | 2.5 | 5 |
| 152 | Superior triethylamine detection at room temperature by {-112} faceted WO gas sensor. *Journal of Hazardous Materials*, **2019**, 380, 120876 | 12.8 | 48 |
| 151 | Integrated N-Co/Carbon Nanofiber Cathode for Highly Efficient Zinc-Air Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 29708-29717 | 9.5 | 23 |
| 150 | Heteroatom-Mediated Interactions between Ruthenium Single Atoms and an MXene Support for Efficient Hydrogen Evolution. *Advanced Materials*, **2019**, 31, e1903841 | 24 | 197 |
| 149 | Large expert-curated database for benchmarking document similarity detection in biomedical literature search. *Database: the Journal of Biological Databases and Curation*, **2019**, 2019, | 5 | 4 |
| 148 | Overall electrochemical splitting of water at the heterogeneous interface of nickel and iron oxide. *Nature Communications*, **2019**, 10, 5599 | 17.4 | 246 |
| 147 | Sulfur-doped cobalt oxide nanowires as efficient electrocatalysts for iodine reduction reaction. *Journal of Alloys and Compounds*, **2019**, 772, 80-91 | 5.7 | 10 |
| 146 | 2D⁄2D Heterostructured UNiMOF/g-C3N4 for Enhanced Photocatalytic H2 Production under Visible-Light Irradiation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2492-2499 | 8.3 | 52 |
| 145 | Rapid-Heating-Triggered in Situ Solid-State Transformation of Amorphous TiO2 Nanotubes into Well-Defined Anatase Nanocrystals. *Crystal Growth and Design*, **2019**, 19, 1086-1094 | 3.5 | 3 |
| 144 | A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. *Advanced Materials*, **2019**, 31, e1804217 | 24 | 70 |
| 143 | Wet-chemistry grafted active pyridinic nitrogen sites on holey graphene edges as high performance ORR electrocatalyst for Zn-Air batteries. *Materials Today Energy*, **2019**, 11, 24-29 | 7 | 16 |

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|---|---|---|---|
| 142 | Correlating electrocatalytic activities with sulfur species on sulfur-doped cobalt oxide. *Materials Letters*, **2019**, 236, 614-617 | 3.3 | 1 |
| 141 | High-symmetry tin(II) iodides as promising light absorbers for solar cells: A theoretical prediction. *Computational Materials Science*, **2019**, 156, 246-251 | 3.2 | 1 |
| 140 | DFT-derived atomic multipoles in AMOEBA force field for calculating intermolecular interactions of azabenzenes dimers. *Computational and Theoretical Chemistry*, **2018**, 1132, 35-41 | 2 | 3 |
| 139 | N-Modified NiO Surface for Superior Alkaline Hydrogen Evolution. *ChemSusChem*, **2018**, 11, 1020-1024 | 8.3 | 9 |
| 138 | Notable hydrogen production on LaxCa1−xCoO3 perovskites via two-step thermochemical water splitting. *Journal of Materials Science*, **2018**, 53, 6796-6806 | 4.3 | 15 |
| 137 | Enhanced Thermochemical H2 Production on Ca-Doped Lanthanum Manganite Perovskites Through Optimizing the Dopant Level and Re-oxidation Temperature. *Acta Metallurgica Sinica (English Letters)*, **2018**, 31, 431-439 | 2.5 | 6 |
| 136 | Enhanced gas sensing properties to NO2 of SnO2/rGO nanocomposites synthesized by microwave-assisted gas-liquid interfacial method. *Ceramics International*, **2018**, 44, 4900-4907 | 5.1 | 26 |
| 135 | Direct monitoring of spin transitions in a dinuclear triple-stranded helicate iron(ii) complex through X-ray photoelectron spectroscopy. *Dalton Transactions*, **2018**, 47, 2543-2548 | 4.3 | 18 |
| 134 | Electrolyte Effect on Electrocatalytic Hydrogen Evolution Performance of One-Dimensional Cobalt−Dithiolene Metal−Organic Frameworks: A Theoretical Perspective. *ACS Applied Energy Materials*, **2018**, 1, 1688-1694 | 6.1 | 14 |
| 133 | Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. *Advanced Materials*, **2018**, 30, e1803144 | 24 | 160 |
| 132 | Sandwich-Like Reduced Graphene Oxide/Carbon Black/Amorphous Cobalt Borate Nanocomposites as Bifunctional Cathode Electrocatalyst in Rechargeable Zinc-Air Batteries. *Advanced Energy Materials*, **2018**, 8, 1801495 | 21.8 | 44 |
| 131 | Preparation of 1T′-Phase ReSSe ( x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2018**, 140, 8563-8568 | 16.4 | 77 |
| 130 | Bimetallic Carbide as a Stable Hydrogen Evolution Catalyst in Harsh Acidic Water. *ACS Energy Letters*, **2018**, 3, 78-84 | 20.1 | 35 |
| 129 | Remarkably enhanced water splitting activity of nickel foam due to simple immersion in a ferric nitrate solution. *Nano Research*, **2018**, 11, 3959-3971 | 10 | 45 |
| 128 | Triketone-Monoterpene Hybrids from the Flowers of the Australian Tree Corymbia intermedia. *Journal of Natural Products*, **2018**, 81, 2455-2461 | 4.9 | 2 |
| 127 | Carbon nanodot aqueous binding phase-based diffusive gradients in thin films device for measurement of dissolved copper and lead species in the aquatic environment. *Analyst, The*, **2018**, 143, 5568-5577 | 5 | 8 |
| 126 | First-Principles Determination of Active Sites of Ni Metal-Based Electrocatalysts for Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2018**, 10, 39624-39630 | 9.5 | 23 |
| 125 | Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. *Angewandte Chemie*, **2018**, 130, 16749-16753 | 3.6 | 41 |

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| 124 | Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. *Angewandte Chemie - International Edition*, **2018**, 57, 16511-16515 | 16.4 | 190 |
| 123 | Revealing the Role of Electrocatalyst Crystal Structure on Oxygen Evolution Reaction with Nickel as an Example. *Small*, **2018**, 14, e1802895 | 11 | 13 |
| 122 | Feroxyhyte Nanosheets: Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting (Adv. Mater. 36/2018). *Advanced Materials*, **2018**, 30, 1870272 | 24 | 13 |
| 121 | Cobalt Covalent Doping in MoS to Induce Bifunctionality of Overall Water Splitting. *Advanced Materials*, **2018**, 30, e1801450 | 24 | 273 |
| 120 | Ultrathin Transition Metal Dichalcogenide/3d Metal Hydroxide Hybridized Nanosheets to Enhance Hydrogen Evolution Activity. *Advanced Materials*, **2018**, 30, e1801171 | 24 | 134 |
| 119 | Enhanced Thermochemical Water Splitting through Formation of Oxygen Vacancy in La Sr BO (B=Cr, Mn, Fe, Co, and Ni) Perovskites. *ChemPlusChem*, **2018**, 83, 924-928 | 2.8 | 10 |
| 118 | Carbon Nanotubes in TiO Nanofiber Photoelectrodes for High-Performance Perovskite Solar Cells. *Advanced Science*, **2017**, 4, 1600504 | 13.6 | 65 |
| 117 | Fabrication and assembly of two-dimensional TiO2/WO3·H2O heterostructures with type II band alignment for enhanced photocatalytic performance. *Applied Surface Science*, **2017**, 403, 564-571 | 6.7 | 23 |
| 116 | Water-soluble inorganic photocatalyst for overall water splitting. *Applied Catalysis B: Environmental* , **2017**, 209, 247-252 | 21.8 | 13 |
| 115 | Electrospun TiO2/SiO2 fibres with hierarchical pores from phase separation. *CrystEngComm*, **2017**, 19, 2673-2680 | 3.3 | 17 |
| 114 | Triphasic 2D Materials by Vertically Stacking Laterally Heterostructured 2H-/1T?-MoS2 on Graphene for Enhanced Photoresponse. *Advanced Electronic Materials*, **2017**, 3, 1700024 | 6.4 | 25 |
| 113 | Evaluation of electronic polarization energy in oligoacene molecular crystals using the solvated supermolecular approach. *Physical Chemistry Chemical Physics*, **2017**, 19, 14453-14461 | 3.6 | 6 |
| 112 | Carbon-encapsulated heazlewoodite nanoparticles as highly efficient and durable electrocatalysts for oxygen evolution reactions. *Nano Research*, **2017**, 10, 3522-3533 | 10 | 23 |
| 111 | Ca2+ and Ga3+ doped LaMnO3 perovskite as a highly efficient and stable catalyst for two-step thermochemical water splitting. *Sustainable Energy and Fuels*, **2017**, 1, 1013-1017 | 5.8 | 23 |
| 110 | Assessment of DFT functionals for calculating intermolecular interaction of nitrogen-containing heterocyclic complexes. *Theoretical Chemistry Accounts*, **2017**, 136, 1 | 1.9 | 2 |
| 109 | One-pot, two-step synthesis and photophysical properties of 2-(5-phenylindol-3-yl)benzimidazole derivatives. *RSC Advances*, **2017**, 7, 49374-49385 | 3.7 | 8 |
| 108 | La1-Ca Mn1-Al O3 perovskites as efficient catalysts for two-step thermochemical water splitting in conjunction with exceptional hydrogen yields. *Chinese Journal of Catalysis*, **2017**, 38, 1079-1086 | 11.3 | 16 |
| 107 | Brønsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. *Journal of Materials Chemistry A*, **2017**, 5, 19227-19236 | 13 | 24 |

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| 106 | Pimentelamines A-C, Indole Alkaloids Isolated from the Leaves of the Australian Tree Flindersia pimenteliana. *Journal of Natural Products*, **2017**, 80, 3211-3217 | 4.9 | 20 |
| 105 | Ultrathin metal□organic framework nanosheets for electrocatalytic oxygen evolution. *Nature Energy*, **2016**, 1, | 62.3 | 1444 |
| 104 | Functionalization of perovskite thin films with moisture-tolerant molecules. *Nature Energy*, **2016**, 1, | 62.3 | 369 |
| 103 | Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. *Nature Energy*, **2016**, 1, | 62.3 | 304 |
| 102 | One-step solid phase synthesis of a highly efficient and robust cobalt pentlandite electrocatalyst for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 18314-18321 | 13 | 80 |
| 101 | Reparameterization of 12-6 Lennard-Jones potentials based on quantum mechanism results for novel tetrahedral N4 (Td) explosives. *Theoretical Chemistry Accounts*, **2016**, 135, 1 | 1.9 | 3 |
| 100 | Molecular engineering of Ni-/Co-porphyrin multilayers on reduced graphene oxide sheets as bifunctional catalysts for oxygen evolution and oxygen reduction reactions. *Chemical Science*, **2016**, 7, 5640-5646 | 9.4 | 108 |
| 99 | The surface sulfur doping induced enhanced performance of cobalt catalysts in oxygen evolution reactions. *Chemical Communications*, **2016**, 52, 9450-3 | 5.8 | 34 |
| 98 | In-silico design of a new energetic material□-Amino-5-nitrotetrazole with high energy and density. *Computational Materials Science*, **2016**, 112, 67-74 | 3.2 | 11 |
| 97 | A general precursor strategy for one-dimensional titania with surface nanoprotrusion and tunable structural hierarchy. *CrystEngComm*, **2016**, 18, 1321-1328 | 3.3 | 6 |
| 96 | CO□nduced Phase Engineering: Protocol for Enhanced Photoelectrocatalytic Performance of 2D MoS□Nanosheets. *ACS Nano*, **2016**, 10, 2903-9 | 16.7 | 187 |
| 95 | A bioscaffolding strategy for hierarchical zeolites with a nanotube-trimodal network. *Chemical Science*, **2016**, 7, 1582-1587 | 9.4 | 12 |
| 94 | Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb3O7(OH) and Nb2O5 Superstructures for Energy Storage and Conversion Applications. *ACS Nano*, **2016**, 10, 507-14 | 16.7 | 65 |
| 93 | Strongly Coupled CoCr2 O4 /Carbon Nanosheets as High Performance Electrocatalysts for Oxygen Evolution Reaction. *Small*, **2016**, 12, 2866-71 | 11 | 76 |
| 92 | Self-template fabrication of one-dimensional hollow and solid porous titania by chemically induced self-transformation. *CrystEngComm*, **2016**, 18, 5572-5579 | 3.3 | 2 |
| 91 | Phase-dependent enhancement for CO2 photocatalytic reduction over CeO2/TiO2 catalysts. *Catalysis Science and Technology*, **2016**, 6, 7967-7975 | 5.5 | 51 |
| 90 | Revisiting the calcination-induced multi-layer hollowing of electrospun solid fibers. *CrystEngComm*, **2016**, 18, 8637-8644 | 3.3 | 3 |
| 89 | Metal-organic frameworks as selectivity regulators for hydrogenation reactions. *Nature*, **2016**, 539, 76-80 | 40.4 | 925 |

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|---|---|---|---|
| 88 | An in situ vapour phase hydrothermal surface doping approach for fabrication of high performance Co3O4 electrocatalysts with an exceptionally high S-doped active surface. *Chemical Communications*, **2015**, 51, 5695-7 | 5.8 | 41 |
| 87 | Nitrogen-Doped Carbon Nanodots@Nanospheres as An Efficient Electrocatalyst for Oxygen Reduction Reaction. *Electrochimica Acta*, **2015**, 165, 7-13 | 6.7 | 32 |
| 86 | Rutile {111} Faceted TiO2 Film with High Ability for Selective Adsorption of Aldehyde. *Journal of Physical Chemistry C*, **2015**, 119, 17680-17686 | 3.8 | 6 |
| 85 | Titania Tube-in-Tube Scaffolds with Multilength-Scale Structural Hierarchy and Structure-Enhanced Functional Performance. *Journal of Physical Chemistry C*, **2015**, 119, 17552-17560 | 3.8 | 11 |
| 84 | A fluorescent quenching performance enhancing principle for carbon nanodot-sensitized aqueous solar cells. *Nano Energy*, **2015**, 13, 124-130 | 17.1 | 29 |
| 83 | A New Graphdiyne Nanosheet/Pt Nanoparticle-Based Counter Electrode Material with Enhanced Catalytic Activity for Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500296 | 21.8 | 149 |
| 82 | A photochromic naphthopyran dye activated by the intramolecular hydrogen bond and its photodynamics in the ormosil matrix coating. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 293-298 | 2.3 | 10 |
| 81 | Density Functional Studies of Stoichiometric Surfaces of Orthorhombic Hybrid Perovskite CH3NH3PbI3. *Journal of Physical Chemistry C*, **2015**, 119, 1136-1145 | 3.8 | 64 |
| 80 | ZnxCd1⊠S/bacterial cellulose bionanocomposite foams with hierarchical architecture and enhanced visible-light photocatalytic hydrogen production activity. *Journal of Materials Chemistry A* , **2015**, 3, 1709-1716 | 13 | 33 |
| 79 | Self-supported bimodal-pore structured nitrogen-doped carbon fiber aerogel as electrocatalyst for oxygen reduction reaction. *Electrochemistry Communications*, **2015**, 51, 6-10 | 5.1 | 44 |
| 78 | Biotemplated synthesis of hierarchically nanostructured TiO2 using cellulose and its applications in photocatalysis. *RSC Advances*, **2015**, 5, 1673-1679 | 3.7 | 15 |
| 77 | Fabrication of Two-Dimensional Lateral Heterostructures of WS2/WO3?H2O Through Selective Oxidation of Monolayer WS2. *Angewandte Chemie*, **2015**, 127, 15441-15445 | 3.6 | 32 |
| 76 | Fabrication of Two-Dimensional Lateral Heterostructures of WS2 /WO3 ?H2 O Through Selective Oxidation of Monolayer WS2. *Angewandte Chemie - International Edition*, **2015**, 54, 15226-30 | 16.4 | 93 |
| 75 | Nd1⊠CaxFeO3 (x = 0, 0.3) Hollow Core⊠Shell Microspheres for Ethanol Gas Sensing. *European Journal of Inorganic Chemistry*, **2015**, 2015, 5767-5772 | 2.3 | 3 |
| 74 | Electrodes: A New Graphdiyne Nanosheet/Pt Nanoparticle-Based Counter Electrode Material with Enhanced Catalytic Activity for Dye-Sensitized Solar Cells (Adv. Energy Mater. 12/2015). *Advanced Energy Materials*, **2015**, 5, n/a-n/a | 21.8 | 1 |
| 73 | Switching the photocatalytic activity of g-C3N4 by homogenous surface chemical modification with nitrogen residues and vacancies. *RSC Advances*, **2015**, 5, 21430-21433 | 3.7 | 18 |
| 72 | Adsorption and oxidation of oxalic acid on anatase TiO2 (001) surface: A density functional theory study. *Journal of Colloid and Interface Science*, **2015**, 454, 180-6 | 9.3 | 15 |
| 71 | The search for efficient electrocatalysts as counter electrode materials for dye-sensitized solar cells: mechanistic study, material screening and experimental validation. *NPG Asia Materials*, **2015**, 7, e226-e226 | 10.3 | 38 |

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|---|---|---|---|
| 70 | Improved conductivity of NdFeO3 through partial substitution of Nd by Ca: a theoretical study. *Physical Chemistry Chemical Physics*, **2015**, 17, 29097-102 | 3.6 | 5 |
| 69 | Carbon-armored Co9S8 nanoparticles as all-pH efficient and durable H2-evolving electrocatalysts. *ACS Applied Materials & Interfaces*, **2015**, 7, 980-8 | 9.5 | 273 |
| 68 | Photoelectrochemical determination of intrinsic kinetics of photoelectrocatalysis processes at {001} faceted anatase TiO2 photoanodes. *RSC Advances*, **2015**, 5, 12860-12865 | 3.7 | 16 |
| 67 | Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH3NH3PbI3. *Physical Chemistry Chemical Physics*, **2014**, 16, 1424-9 | 3.6 | 284 |
| 66 | Stable isolated metal atoms as active sites for photocatalytic hydrogen evolution. *Chemistry - A European Journal*, **2014**, 20, 2138-44 | 4.8 | 132 |
| 65 | Formation Mechanism of Freestanding CH3NH3PbI3 Functional Crystals: In Situ Transformation vs Dissolution–Crystallization. *Chemistry of Materials*, **2014**, 26, 6705-6710 | 9.6 | 130 |
| 64 | TiO2–SiO2 composite fibers with tunable interconnected porous hierarchy fabricated by single-spinneret electrospinning toward enhanced photocatalytic activity. *Journal of Materials Chemistry A*, **2014**, 2, 12442 | 13 | 37 |
| 63 | A {0001} faceted single crystal NiS nanosheet electrocatalyst for dye-sensitised solar cells: sulfur-vacancy induced electrocatalytic activity. *Chemical Communications*, **2014**, 50, 5569-71 | 5.8 | 54 |
| 62 | Directly hydrothermal growth of ultrathin MoS2 nanostructured films as high performance counter electrodes for dye-sensitised solar cells. *RSC Advances*, **2014**, 4, 21277 | 3.7 | 70 |
| 61 | Reply to the "Comment on "Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH3NH3PbI3" by J. Even et al., Phys. Chem. Chem. Phys., 2014, 10.1039/C3CP55006K. *Physical Chemistry Chemical Physics*, **2014**, 16, 8699-700 | 3.6 | 2 |
| 60 | Zinc oxide aerogel-like materials with an intriguing interwoven hollow-sphere morphology for selective ethanol sensing. *RSC Advances*, **2014**, 4, 21815-21818 | 3.7 | 2 |
| 59 | Hydrothermal transformation of dried grass into graphitic carbon-based high performance electrocatalyst for oxygen reduction reaction. *Small*, **2014**, 10, 3371-8 | 11 | 122 |
| 58 | A self-sponsored doping approach for controllable synthesis of S and N co-doped trimodal-porous structured graphitic carbon electrocatalysts. *Energy and Environmental Science*, **2014**, 7, 3720-3726 | 35.4 | 180 |
| 57 | Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. *Environmental Science and Technology Letters*, **2014**, 1, 87-91 | 11 | 65 |
| 56 | Geometric structure of rutile titanium dioxide (111) surfaces. *Physical Review B*, **2014**, 90, | 3.3 | 17 |
| 55 | The size and valence state effect of Pt on photocatalytic H2 evolution over platinized TiO2 photocatalyst. *International Journal of Hydrogen Energy*, **2014**, 39, 1237-1242 | 6.7 | 60 |
| 54 | Vapor-phase hydrothermal synthesis of rutile TiO2 nanostructured film with exposed pyramid-shaped (111) surface and superiorly photoelectrocatalytic performance. *Journal of Colloid and Interface Science*, **2014**, 429, 53-61 | 9.3 | 21 |
| 53 | Removal of nitric oxide by the highly reactive anatase TiO2 (001) surface: a density functional theory study. *Journal of Colloid and Interface Science*, **2014**, 430, 18-23 | 9.3 | 20 |

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|---|---|---|---|
| 52 | Effects of global orbital cutoff value and numerical basis set size on accuracies of theoretical atomization energies. *Theoretical Chemistry Accounts*, **2014**, 133, 1 | 1.9 | 18 |
| 51 | Bottom-Up Enhancement of g-C3N4Photocatalytic H2Evolution Utilising Disordering Intermolecular Interactions of Precursor. *International Journal of Photoenergy*, **2014**, 2014, 1-8 | 2.1 | 7 |
| 50 | Stable Isolated Metal Atoms as Active Sites for Photocatalytic Hydrogen Evolution. *Chemistry - A European Journal*, **2014**, 20, 2088-2088 | 4.8 | 2 |
| 49 | Preparation of a fast photochromic ormosil matrix coating for smart windows. *Journal of Materials Science*, **2013**, 48, 5862-5870 | 4.3 | 21 |
| 48 | Theoretical understanding and prediction of lithiated sodium hexatitanates. *ACS Applied Materials & Interfaces*, **2013**, 5, 1108-12 | 9.5 | 9 |
| 47 | Determination of Sudan dyes in environmental water by magnetic mesoporous microsphere-based solid phase extraction ultra fast liquid chromatography. *Analytical Methods*, **2013**, 5, 1399 | 3.2 | 24 |
| 46 | A highly crystalline Nb3O7F nanostructured photoelectrode: fabrication and photosensitisation. *Journal of Materials Chemistry A*, **2013**, 1, 6563 | 13 | 28 |
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