# Gong-Ming Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 114 papers | 20,126 citations | 22153 59 h-index | 26613 107 g-index |
| 116 all docs | 116 docs citations | 116 times ranked | 22433 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydrogen-Treated TiO<sub>2</sub> Nanowire Arrays for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 3026-3033. | 9.1 | 2,344 |
| 2 | Flexible solid-state supercapacitors: design, fabrication and applications. Energy and Environmental Science, 2014, 7, 2160. | 30.8 | 1,156 |
| 3 | Nitrogen-Doped ZnO Nanowire Arrays for Photoelectrochemical Water Splitting. Nano Letters, 2009, 9, 2331-2336. | 9.1 | 1,071 |
| 4 | Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 2119-2125. | 9.1 | 994 |
| 5 | Tailoring the dâ€Band Centers Enables Co<sub>4</sub>N Nanosheets To Be Highly Active for Hydrogen Evolution Catalysis. Angewandte Chemie - International Edition, 2018, 57, 5076-5080. | 13.8 | 728 |
| 6 | High Energy Density Asymmetric Quasi-Solid-State Supercapacitor Based on Porous Vanadium Nitride Nanowire Anode. Nano Letters, 2013, 13, 2628-2633. | 9.1 | 691 |
| 7 | Hydrogen-treated WO3 nanoflakes show enhanced photostability. Energy and Environmental Science, 2012, 5, 6180. | 30.8 | 666 |
| 8 | Solidâ€State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability. Advanced Materials, 2014, 26, 2676-2682. | 21.0 | 660 |
| 9 | Facile Synthesis of Highly Photoactive Î±-Fe<sub>2</sub>O<sub>3</sub>-Based Films for Water Oxidation. Nano Letters, 2011, 11, 3503-3509. | 9.1 | 623 |
| 10 | Double-Sided CdS and CdSe Quantum Dot Co-Sensitized ZnO Nanowire Arrays for Photoelectrochemical Hydrogen Generation. Nano Letters, 2010, 10, 1088-1092. | 9.1 | 587 |
| 11 | Nanostructured hematite: synthesis, characterization, charge carrier dynamics, and photoelectrochemical properties. Energy and Environmental Science, 2012, 5, 6682. | 30.8 | 492 |
| 12 | Progress in Developing Metal Oxide Nanomaterials for Photoelectrochemical Water Splitting. Advanced Energy Materials, 2017, 7, 1700555. | 19.5 | 455 |
| 13 | Deciphering the Modulation Essence of p Bands in Co-Based Compounds on Li-S Chemistry. Joule, 2018, 2, 2681-2693. | 24.0 | 406 |
| 14 | Electron density modulation of NiCo2S4 nanowires by nitrogen incorporation for highly efficient hydrogen evolution catalysis. Nature Communications, 2018, 9, 1425. | 12.8 | 356 |
| 15 | Oxygen-deficient metal oxide nanostructures for photoelectrochemical water oxidation and other applications. Nanoscale, 2012, 4, 6682. | 5.6 | 345 |
| 16 | Microbial reduction of graphene oxide by Shewanella. Nano Research, 2011, 4, 563-570. | 10.4 | 327 |
| 17 | Tuning orbital orientation endows molybdenum disulfide with exceptional alkaline hydrogen evolution capability. Nature Communications, 2019, 10, 1217. | 12.8 | 322 |
| 18 | Phase and Interface Engineering of Platinumâ€“Nickel Nanowires for Efficient Electrochemical Hydrogen Evolution. Angewandte Chemie - International Edition, 2016, 55, 12859-12863. | 13.8 | 311 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | LiCl/PVA Gel Electrolyte Stabilizes Vanadium Oxide Nanowire Electrodes for Pseudocapacitors. ACS Nano, 2012, 6, 10296-10302. | 14.6 | 310 |
| 20 | A New Benchmark Capacitance for Supercapacitor Anodes by Mixedâ€Valence Sulfurâ€Doped V<sub>6</sub>O<sub>13â^'x</sub>. Advanced Materials, 2014, 26, 5869-5875. | 21.0 | 305 |
| 21 | Oxygen defective metal oxides for energy conversion and storage. Nano Today, 2017, 13, 23-39. | 11.9 | 266 |
| 22 | Wafer-scale growth of large arrays of perovskite microplate crystals for functional electronics and optoelectronics. Science Advances, 2015, 1, e1500613. | 10.3 | 265 |
| 23 | Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. Nanoscale, 2012, 4, 3123. | 5.6 | 228 |
| 24 | Efficient Suppression of Electronâ€“Hole Recombination in Oxygen-Deficient Hydrogen-Treated TiO<sub>2</sub> Nanowires for Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2013, 117, 25837-25844. | 3.1 | 222 |
| 25 | Improving the Cycling Stability of Metalâ€“Nitride Supercapacitor Electrodes with a Thin Carbon Shell. Advanced Energy Materials, 2014, 4, 1300994. | 19.5 | 217 |
| 26 | Wetâ€Chemical Synthesis of Hollow Redâ€Phosphorus Nanospheres with Porous Shells as Anodes for Highâ€Performance Lithiumâ€Ion and Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700214. | 21.0 | 213 |
| 27 | N-induced lattice contraction generally boosts the hydrogen evolution catalysis of P-rich metal phosphides. Science Advances, 2020, 6, eaaw8113. | 10.3 | 211 |
| 28 | Size-dependent phase transition in methylammonium lead iodide perovskite microplate crystals. Nature Communications, 2016, 7, 11330. | 12.8 | 206 |
| 29 | Achieving Insertionâ€Like Capacity at Ultrahigh Rate via Tunable Surface Pseudocapacitance. Advanced Materials, 2018, 30, e1706640. | 21.0 | 202 |
| 30 | van der Waals Heterojunction Devices Based on Organohalide Perovskites and Two-Dimensional Materials. Nano Letters, 2016, 16, 367-373. | 9.1 | 185 |
| 31 | Carbon doping switching on the hydrogen adsorption activity of NiO for hydrogen evolution reaction. Nature Communications, 2020, 11, 590. | 12.8 | 170 |
| 32 | A mechanistic study into the catalytic effect of Ni(OH)2 on hematite for photoelectrochemical water oxidation. Nanoscale, 2013, 5, 4129. | 5.6 | 169 |
| 33 | Boosting Water Dissociation Kinetics on Ptâ€“Ni Nanowires by Nâ€Induced Orbital Tuning. Advanced Materials, 2019, 31, e1807780. | 21.0 | 167 |
| 34 | Three-dimensional graphene framework with ultra-high sulfur content for a robust lithiumâ€“sulfur battery. Nano Research, 2016, 9, 240-248. | 10.4 | 165 |
| 35 | Synergy between Palladium Single Atoms and Nanoparticles via Hydrogen Spillover for Enhancing CO<sub>2</sub> Photoreduction to CH<sub>4</sub>. Advanced Materials, 2022, 34, e2200057. | 21.0 | 162 |
| 36 | Solar driven hydrogen releasing from urea and human urine. Energy and Environmental Science, 2012, 5, 8215. | 30.8 | 160 |

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|---|---|---|---|
| 37 | Tailoring the dâ€Band Centers Enables Co<sub>4</sub>N Nanosheets To Be Highly Active for Hydrogen Evolution Catalysis. Angewandte Chemie, 2018, 130, 5170-5174. | 2.0 | 160 |
| 38 | Significantly Enhanced Visible Light Photoelectrochemical Activity in TiO<sub>2</sub> Nanowire Arrays by Nitrogen Implantation. Nano Letters, 2015, 15, 4692-4698. | 9.1 | 159 |
| 39 | Chemically modified nanostructures for photoelectrochemical water splitting. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 19, 35-51. | 11.6 | 156 |
| 40 | Manipulating the Redox Kinetics of Liâ€“S Chemistry by Tellurium Doping for Improved Liâ€“S Batteries. ACS Energy Letters, 2018, 3, 420-427. | 17.4 | 146 |
| 41 | In Situ Li<sub>3</sub>PS<sub>4</sub> Solidâ€State Electrolyte Protection Layers for Superior Longâ€Life and Highâ€Rate Lithiumâ€Metal Anodes. Advanced Materials, 2018, 30, e1804684. | 21.0 | 140 |
| 42 | Acid Treatment Enables Suppression of Electronâ€“Hole Recombination in Hematite for Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2016, 55, 3403-3407. | 13.8 | 132 |
| 43 | Self-Standing Hierarchical P/CNTs@rGO with Unprecedented Capacity and Stability for Lithium and Sodium Storage. CheM, 2018, 4, 372-385. | 11.7 | 128 |
| 44 | An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. Nano Letters, 2015, 15, 3189-3194. | 9.1 | 118 |
| 45 | Synthesis of Stable Shape-Controlled Catalytically Active Î²-Palladium Hydride. Journal of the American Chemical Society, 2015, 137, 15672-15675. | 13.7 | 117 |
| 46 | Electronic and Ionic Transport Dynamics in Organolead Halide Perovskites. ACS Nano, 2016, 10, 6933-6941. | 14.6 | 115 |
| 47 | An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2016, 4, 2849-2855. | 10.3 | 114 |
| 48 | Amorphization-induced surface electronic states modulation of cobaltous oxide nanosheets for lithium-sulfur batteries. Nature Communications, 2021, 12, 3102. | 12.8 | 103 |
| 49 | Two-dimensional MOS2 for hydrogen evolution reaction catalysis: The electronic structure regulation. Nano Research, 2021, 14, 1985-2002. | 10.4 | 98 |
| 50 | The Effect of Thermal Annealing on Charge Transport in Organolead Halide Perovskite Microplate Fieldâ€Effect Transistors. Advanced Materials, 2017, 29, 1601959. | 21.0 | 91 |
| 51 | CdSe quantum dot-sensitized Au/TiO2 hybrid mesoporous films and their enhanced photoelectrochemical performance. Nano Research, 2011, 4, 249-258. | 10.4 | 87 |
| 52 | Regulating the Interfacial Electronic Coupling of Fe<sub>2</sub>N via Orbital Steering for Hydrogen Evolution Catalysis. Advanced Materials, 2020, 32, e1904346. | 21.0 | 86 |
| 53 | Hexagonal Boron Nitride as a Multifunctional Support for Engineering Efficient Electrocatalysts toward the Oxygen Reduction Reaction. Nano Letters, 2020, 20, 6807-6814. | 9.1 | 82 |
| 54 | Manipulating the water dissociation kinetics of Ni<sub>3</sub>N nanosheets via in situ interfacial engineering. Journal of Materials Chemistry A, 2019, 7, 10924-10929. | 10.3 | 79 |

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|---|---|---|---|
| 55 | Mixedâ€Valence Copper Selenide as an Anode for Ultralong Lifespan Rockingâ€Chair Znâ€Ion Batteries: An Insight into its Intercalation/Extraction Kinetics and Charge Storage Mechanism. Advanced Functional Materials, 2021, 31, 2005092. | 14.9 | 76 |
| 56 | Phase and Interface Engineering of Platinumâ€“Nickel Nanowires for Efficient Electrochemical Hydrogen Evolution. Angewandte Chemie, 2016, 128, 13051-13055. | 2.0 | 73 |
| 57 | An on-chip electrical transport spectroscopy approach for in situ monitoring electrochemical interfaces. Nature Communications, 2015, 6, 7867. | 12.8 | 64 |
| 58 | Interfacial synergies between single-atomic Pt and CoS for enhancing hydrogen evolution reaction catalysis. Applied Catalysis B: Environmental, 2022, 315, 121534. | 20.2 | 63 |
| 59 | Fully integrated hierarchical double-shelled Co<sub>9</sub>S<sub>8</sub>@CNT nanostructures with unprecedented performance for Liâ€“S batteries. Nanoscale Horizons, 2019, 4, 182-189. | 8.0 | 62 |
| 60 | Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions. Nano Letters, 2015, 15, 7051-7057. | 9.1 | 57 |
| 61 | Optimizing Hydrogen Adsorption by dâ€“d Orbital Modulation for Efficient Hydrogen Evolution Catalysis. Advanced Energy Materials, 2022, 12, . | 19.5 | 57 |
| 62 | Cathode-Introduced Atomic H* for Fe(II)-Complex Regeneration to Effective Electro-Fenton Process at a Natural pH. Environmental Science & Technology, 2019, 53, 6927-6936. | 10.0 | 54 |
| 63 | Highâ€Polarity Fluoroalkyl Ether Electrolyte Enables Solvationâ€Free Li<sup>+</sup> Transfer for Highâ€Rate Lithium Metal Batteries. Advanced Science, 2022, 9, e2104699. | 11.2 | 54 |
| 64 | High power generation in mixed-culture microbial fuel cells with corncob-derived three-dimensional N-doped bioanodes and the impact of N dopant states. Chemical Engineering Journal, 2020, 399, 125848. | 12.7 | 51 |
| 65 | Nitrogen doped FeS2 nanoparticles for efficient and stable hydrogen evolution reaction. Journal of Energy Chemistry, 2021, 56, 283-289. | 12.9 | 49 |
| 66 | Ultrasmall Single-Crystal Indium Antimonide Nanowires. Crystal Growth and Design, 2010, 10, 2479-2482. | 3.0 | 45 |
| 67 | High-Spin Sulfur-Mediated Phosphorous Activation Enables Safe and Fast Phosphorus Anodes for Sodium-Ion Batteries. CheM, 2020, 6, 221-233. | 11.7 | 43 |
| 68 | Ultrathin SnS 2 nanosheets as robust polysulfides immobilizers for high performance lithium-sulfur batteries. Materials Research Bulletin, 2017, 96, 509-515. | 5.2 | 42 |
| 69 | Sulfur Doping Triggering Enhanced Ptâ€“N Coordination in Graphitic Carbon Nitride-Supported Pt Electrocatalysts toward Efficient Oxygen Reduction Reaction. ACS Catalysis, 2022, 12, 7406-7414. | 11.2 | 40 |
| 70 | Promoted alkaline hydrogen evolution by an N-doped Ptâ€“Ru single atom alloy. Journal of Materials Chemistry A, 2021, 9, 14941-14947. | 10.3 | 39 |
| 71 | Porous Ultrathin W-Doped VO<sub>2</sub> Nanosheets Enable Boosted Zn<sup>2+</sup> (De)Intercalation Kinetics in VO<sub>2</sub> for High-Performance Aqueous Zn-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 14193-14201. | 6.7 | 38 |
| 72 | Reduced graphene oxide/silicon nanowire heterostructures with enhanced photoactivity and superior photoelectrochemical stability. Nano Research, 2015, 8, 2850-2858. | 10.4 | 34 |

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|---|---|---|---|
| 73 | Twoâ€Ðimensional MoS<sub>2</sub> for Liâ^'S Batteries: Structural Design and Electronic Modulation. ChemSusChem, 2020, 13, 1392-1408. | 6.8 | 31 |
| 74 | Fluorine Triggered Surface and Lattice Regulation in Anatase TiO<sub>2â^'</sub><sub>x</sub>F<sub>x</sub> Nanocrystals for Ultrafast Pseudocapacitive Sodium Storage. Small, 2020, 16, e2006366. | 10.0 | 31 |
| 75 | Interfacial competition between a borophene-based cathode and electrolyte for the multiple-sulfide immobilization of a lithium sulfur battery. Journal of Materials Chemistry A, 2019, 7, 7092-7098. | 10.3 | 30 |
| 76 | Ternary cobaltâ€“iron sulfide as a robust electrocatalyst for water oxidation: A dual effect from surface evolution and metal doping. Applied Surface Science, 2021, 542, 148681. | 6.1 | 28 |
| 77 | Acid Treatment Enables Suppression of Electronâ€“Hole Recombination in Hematite for Photoelectrochemical Water Splitting. Angewandte Chemie, 2016, 128, 3464-3468. | 2.0 | 27 |
| 78 | Pb Single Atoms Enable Unprecedented Catalytic Behavior for the Combustion of Energetic Materials. Advanced Science, 2021, 8, 2002889. | 11.2 | 27 |
| 79 | Supramolecular Modulation of Molecular Conformation of Metal Porphyrins toward Remarkably Enhanced Multipurpose Electrocatalysis and UltrahighâEPerformance Zincâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2102062. | 19.5 | 27 |
| 80 | Reversing the Nucleophilicity of Active Sites in CoP<sub>2</sub> Enables Exceptional Hydrogen Evolution Catalysis. Small, 2022, 18, e2106870. | 10.0 | 27 |
| 81 | Review of the Iâ^'/I3â^' redox chemistry in Zn-iodine redox flow batteries. Materials Research Bulletin, 2021, 141, 111347. | 5.2 | 24 |
| 82 | Orbital-regulated interfacial electronic coupling endows Ni3N with superior catalytic surface for hydrogen evolution reaction. Science China Chemistry, 2020, 63, 1563-1569. | 8.2 | 22 |
| 83 | Tuning the Interaction between Ruthenium Single Atoms and the Second Coordination Sphere for Efficient Nitrogen Photofixation. Advanced Functional Materials, 2022, 32, . | 14.9 | 22 |
| 84 | The Effect of the Hydrogenation Temperature on TiO2Nanostructures for Photoelectrochemical Water Oxidation. European Journal of Inorganic Chemistry, 2014, 2014, 760-766. | 2.0 | 21 |
| 85 | Phosphorus incorporation activates the basal plane of tungsten disulfide for efficient hydrogen evolution catalysis. Nano Research, 2022, 15, 2855-2861. | 10.4 | 21 |
| 86 | Hierarchical Ion/Electron Networks Enable Efficient Red Phosphorus Anode with High Mass Loading for Sodium Ion Batteries. Advanced Functional Materials, 2022, 32, . | 14.9 | 21 |
| 87 | Constructing Reactive Microâ€Environment in Basal Plane of MoS<sub>2</sub> for pHâ€Universal Hydrogen Evolution Catalysis. Small, 2022, 18, . | 10.0 | 21 |
| 88 | Gate-Induced Insulator to Band-Like Transport Transition in Organolead Halide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 429-434. | 4.6 | 20 |
| 89 | Applications of MoS<sub>2</sub> in Liâ€“O<sub>2</sub> Batteries: Development and Challenges. Energy & Fuels, 2021, 35, 5613-5626. | 5.1 | 20 |
| 90 | Support Amorphization Engineering Regulates Single-Atom Ru as an Electron Pump for Nitrogen Photofixation. ACS Catalysis, 2022, 12, 8139-8146. | 11.2 | 20 |

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| 91 | Cu2O-Ag Tandem Catalysts for Selective Electrochemical Reduction of CO2 to C2 Products. Molecules, 2021, 26, 2175. | 3.8 | 19 |
| 92 | Regulating the adsorption behavior of intermediates on Irâ€“W@Irâ€“WO<sub>3â^'x</sub> boosts acidic water oxidation electrocatalysis. Materials Chemistry Frontiers, 2021, 5, 6092-6100. | 5.9 | 17 |
| 93 | Accelerating water dissociation kinetics of Ni3N by tuning interfacial orbital coupling. Nano Research, 2021, 14, 3458-3465. | 10.4 | 16 |
| 94 | Superior surface electron energy level endows WP2 nanowire arrays with N2 fixation functions. Journal of Energy Chemistry, 2021, 59, 55-62. | 12.9 | 14 |
| 95 | Atomic Disorder Enables Superior Catalytic Surface of Pt-Based Catalysts for Alkaline Hydrogen Evolution. , 2021, 3, 1738-1745. | | 13 |
| 96 | Tailoring the Electrochemical Protonation Behavior of CO<sub>2</sub> by Tuning Surface Noncovalent Interactions. ACS Catalysis, 2021, 11, 14986-14994. | 11.2 | 13 |
| 97 | Short-range order in amorphous nickel oxide nanosheets enables selective and efficient electrochemical hydrogen peroxide production. Cell Reports Physical Science, 2022, 3, 100788. | 5.6 | 12 |
| 98 | Porous TiNb<sub>2</sub>O<sub>7</sub>@N-C as Anode Materials for Lithium-Ion Batteries with Ultrahigh-Rate Performance. Journal of Physical Chemistry C, 2021, 125, 23960-23967. | 3.1 | 11 |
| 99 | Nickel Catalyst Boosts Solar Hydrogen Generation of CdSe Nanocrystals. ChemCatChem, 2013, 5, 1294-1295. | 3.7 | 9 |
| 100 | Three-Dimensional Carbon-Supported MoS2 With Sulfur Defects as Oxygen Electrodes for Li-O2 Batteries. Frontiers in Energy Research, 2020, 8, . | 2.3 | 9 |
| 101 | Regulating the electron filling state of d orbitals in Ta-based compounds for tunable lithiumâ€'sulfur chemistry. Sustainable Materials and Technologies, 2021, 28, e00271. | 3.3 | 8 |
| 102 | Phosphorene: a Potential 2D Material for Highly Efficient Polysulfide Trapping and Conversion. Chemical Research in Chinese Universities, 2020, 36, 631-639. | 2.6 | 6 |
| 103 | Ultrafast Charge Carrier Dynamics and Photoelectrochemical Properties of Hydrogen-treated TiO2 Nanowire Arrays. Materials Research Society Symposia Proceedings, 2012, 1387, 1. | 0.1 | 5 |
| 104 | Constructing Complementary Catalytic Components on Co <sub>4</sub> N Nanowires to Achieve Efficient Hydrogen Evolution Catalysis. Advanced Energy and Sustainability Research, 0, , 2100219. | 5.8 | 5 |
| 105 | Single-atom catalyst cathodes for lithiumâ€“oxygen batteries: a review. Nano Futures, 2022, 6, 012002. | 2.2 | 4 |
| 106 | Water Splitting: Boosting Water Dissociation Kinetics on Ptâ€“Ni Nanowires by Nâ€Induced Orbital Tuning (Adv. Mater. 16/2019). Advanced Materials, 2019, 31, 1970116. | 21.0 | 1 |
| 107 | Electronic surface reconstruction of TiO2 nanocrystals revealed by resonant inelastic x-ray scattering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, . | 2.1 | 1 |
| 108 | Supramolecular Modulation of Molecular Conformation of Metal Porphyrins toward Remarkably Enhanced Multipurpose Electrocatalysis and Ultrahighâ€Performance Zincâ€“Air Batteries (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 | 10.5 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Hydrogen-Treated TiO<sub>2</sub> Nanowires for Charge Storage and Photoelectrochemical Water Splitting. , 2017, , 189-213. | | 0 |
| 110 | SURFACE ENGINEERING OF SEMICONDUCTORS FOR PHOTOELECTROCHEMICAL WATER SPLITTING. , 2018, , 223-249. | | 0 |
| 111 | Two-Dimensional Transition Metal Chalcogenides for Hydrogen Evolution Catalysis. , 2021, , 3075-3101. | | 0 |
| 112 | Two-Dimensional Transition Metal Chalcogenides for Hydrogen Evolution Catalysis. , 2020, , 1-28. | | 0 |
| 113 | Tuning the Interaction between Ruthenium Single Atoms and the Second Coordination Sphere for Efficient Nitrogen Photofixation (Adv. Funct. Mater. 12/2022). Advanced Functional Materials, 2022, 32, . | 14.9 | 0 |
| 114 | Polydimethylsiloxane functionalized separator for a stable and fast lithium metal anode. CrystEngComm, 0, , . | 2.6 | 0 |