# Bao Yu Xia

List of Publications by Year
in descending order



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|---|---|---|---|
| 226 papers | 35,924 citations | 90 h-index | 184 g-index |
| 238 all docs | 238 docs citations | 238 times ranked | 24836 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A metalâ€“organic framework-derived bifunctional oxygenÂelectrocatalyst. Nature Energy, 2016, 1, . | 19.8 | 1,974 |
| 2 | Innovative Strategies for Electrocatalytic Water Splitting. Accounts of Chemical Research, 2018, 51, 1571-1580. | 7.6 | 1,262 |
| 3 | Porous molybdenum carbide nano-octahedrons synthesized via confined carburization in metal-organic frameworks for efficient hydrogen production. Nature Communications, 2015, 6, 6512. | 5.8 | 1,194 |
| 4 | Designed Formation of Co<sub>3</sub>O<sub>4</sub>/NiCo<sub>2</sub>O<sub>4</sub>Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. Journal of the American Chemical Society, 2015, 137, 5590-5595. | 6.6 | 1,059 |
| 5 | A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 17587-17603. | 5.2 | 1,037 |
| 6 | Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. Science, 2019, 366, 850-856. | 6.0 | 1,005 |
| 7 | Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. ACS Catalysis, 2014, 4, 1693-1705. | 5.5 | 769 |
| 8 | Hierarchically Porous Urchin-Like Ni<sub>2</sub>P Superstructures Supported on Nickel Foam as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. ACS Catalysis, 2016, 6, 714-721. | 5.5 | 737 |
| 9 | Electrodeposited Cobaltâ€Phosphorousâ€Derived Films as Competent Bifunctional Catalysts for Overall Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 6251-6254. | 7.2 | 712 |
| 10 | A General Strategy for Decoupled Hydrogen Production from Water Splitting by Integrating Oxidative Biomass Valorization. Journal of the American Chemical Society, 2016, 138, 13639-13646. | 6.6 | 689 |
| 11 | Advanced Architectures and Relatives of Air Electrodes in Znâ€“Air Batteries. Advanced Science, 2018, 5, 1700691. | 5.6 | 645 |
| 12 | Advanced Electrocatalysts for the Oxygen Reduction Reaction in Energy Conversion Technologies. Joule, 2020, 4, 45-68. | 11.7 | 596 |
| 13 | One-Pot Synthesis of Cubic PtCu<sub>3</sub> Nanocages with Enhanced Electrocatalytic Activity for the Methanol Oxidation Reaction. Journal of the American Chemical Society, 2012, 134, 13934-13937. | 6.6 | 581 |
| 14 | High-Performance Overall Water Splitting Electrocatalysts Derived from Cobalt-Based Metalâ€“Organic Frameworks. Chemistry of Materials, 2015, 27, 7636-7642. | 3.2 | 579 |
| 15 | Hierarchical Î²â€Mo<sub>2</sub>C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. Angewandte Chemie - International Edition, 2015, 54, 15395-15399. | 7.2 | 546 |
| 16 | Enhancing Electrocatalytic Water Splitting by Strain Engineering. Advanced Materials, 2019, 31, e1807001. | 11.1 | 470 |
| 17 | Metalâ€“Organic Frameworks Based Electrocatalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2020, 59, 4634-4650. | 7.2 | 457 |
| 18 | Bimetalâ€“Organic Framework Self-Adjusted Synthesis of Support-Free Nonprecious Electrocatalysts for Efficient Oxygen Reduction. ACS Catalysis, 2015, 5, 7068-7076. | 5.5 | 442 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Simultaneous H<sub>2</sub> Generation and Biomass Upgrading in Water by an Efficient Nobleâ€Metalâ€Free Bifunctional Electrocatalyst. Angewandte Chemie - International Edition, 2016, 55, 9913-9917. | 7.2 | 435 |
| 20 | Ultrathin and Ultralong Single-Crystal Platinum Nanowire Assemblies with Highly Stable Electrocatalytic Activity. Journal of the American Chemical Society, 2013, 135, 9480-9485. | 6.6 | 425 |
| 21 | Nickel sulfides for electrocatalytic hydrogen evolution under alkaline conditions: a case study of crystalline NiS, NiS<sub>2</sub>, and Ni<sub>3</sub>S<sub>2</sub> nanoparticles. Catalysis Science and Technology, 2016, 6, 1077-1084. | 2.1 | 408 |
| 22 | Oneâ€Pot Synthesis of Ptâ€“Co Alloy Nanowire Assemblies with Tunable Composition and Enhanced Electrocatalytic Properties. Angewandte Chemie - International Edition, 2015, 54, 3797-3801. | 7.2 | 407 |
| 23 | Ultrathin MoS<sub>2</sub> Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2013, 5, 12794-12798. | 4.0 | 392 |
| 24 | Surfactant-free atomically ultrathin rhodium nanosheet nanoassemblies for efficient nitrogen electroreduction. Journal of Materials Chemistry A, 2018, 6, 3211-3217. | 5.2 | 376 |
| 25 | General Formation of Mâ€“MoS<sub>3</sub> (M = Co, Ni) Hollow Structures with Enhanced Electrocatalytic Activity for Hydrogen Evolution. Advanced Materials, 2016, 28, 92-97. | 11.1 | 364 |
| 26 | Anodic Hydrazine Oxidation Assists Energyâ€Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. Angewandte Chemie - International Edition, 2018, 57, 7649-7653. | 7.2 | 352 |
| 27 | Three dimensional N-doped grapheneâ€“CNT networks for supercapacitor. Chemical Communications, 2013, 49, 5016. | 2.2 | 349 |
| 28 | Recent progress on graphene-based hybrid electrocatalysts. Materials Horizons, 2014, 1, 379-399. | 6.4 | 303 |
| 29 | Efficient H<sub>2</sub> Evolution Coupled with Oxidative Refining of Alcohols via A Hierarchically Porous Nickel Bifunctional Electrocatalyst. ACS Catalysis, 2017, 7, 4564-4570. | 5.5 | 295 |
| 30 | An Efficient and Earthâ€Abundant Oxygenâ€Evolving Electrocatalyst Based on Amorphous Metal Borides. Advanced Energy Materials, 2018, 8, 1701475. | 10.2 | 292 |
| 31 | Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. Energy and Environmental Science, 2016, 9, 1687-1695. | 15.6 | 290 |
| 32 | Strongly Coupled NiCo<sub>2</sub>O<sub>4</sub>â€rGO Hybrid Nanosheets as a Methanolâ€Tolerant Electrocatalyst for the Oxygen Reduction Reaction. Advanced Materials, 2014, 26, 2408-2412. | 11.1 | 283 |
| 33 | Integrating Electrocatalytic 5-Hydroxymethylfurfural Oxidation and Hydrogen Production via Coâ€P-Derived Electrocatalysts. ACS Energy Letters, 2016, 1, 386-390. | 8.8 | 272 |
| 34 | Hierarchically Porous Nickel Sulfide Multifunctional Superstructures. Advanced Energy Materials, 2016, 6, 1502333. | 10.2 | 268 |
| 35 | Molybdenum Carbideâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Chemistry - A European Journal, 2017, 23, 10947-10961. | 1.7 | 267 |
| 36 | Oxygen Reduction Electrocatalysts toward Practical Fuel Cells: Progress and Perspectives. Angewandte Chemie - International Edition, 2021, 60, 17832-17852. | 7.2 | 265 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Densely Populated Isolated Single Coï£¿N Site for Efficient Oxygen Electrocatalysis. Advanced Energy Materials, 2019, 9, 1900149. | 10.2 | 262 |
| 38 | Metal/covalentâ€“organic frameworks-based electrocatalysts for water splitting. Journal of Materials Chemistry A, 2018, 6, 15905-15926. | 5.2 | 258 |
| 39 | Vertically oriented MoS<sub>2</sub> and WS<sub>2</sub> nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. Journal of Materials Chemistry A, 2015, 3, 131-135. | 5.2 | 254 |
| 40 | Arrays of ultrafine CuS nanoneedles supported on a CNT backbone for application in supercapacitors. Journal of Materials Chemistry, 2012, 22, 7851. | 6.7 | 253 |
| 41 | Metalâ€“Organic Frameworkâ€Derived Carbon Nanorods Encapsulating Bismuth Oxides for Rapid and Selective CO<sub>2</sub> Electroreduction to Formate. Angewandte Chemie - International Edition, 2020, 59, 10807-10813. | 7.2 | 251 |
| 42 | Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. Nano Energy, 2019, 60, 894-902. | 8.2 | 250 |
| 43 | A Zeoliticâ€Imidazole Frameworksâ€Derived Interconnected Macroporous Carbon Matrix for Efficient Oxygen Electrocatalysis in Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2020, 32, e2002170. | 11.1 | 240 |
| 44 | Advanced Platinum-Based Oxygen Reduction Electrocatalysts for Fuel Cells. Accounts of Chemical Research, 2021, 54, 311-322. | 7.6 | 237 |
| 45 | Bismuth Oxides with Enhanced Bismuthâ€“Oxygen Structure for Efficient Electrochemical Reduction of Carbon Dioxide to Formate. ACS Catalysis, 2020, 10, 743-750. | 5.5 | 234 |
| 46 | A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. Chemistry - A European Journal, 2015, 21, 18062-18067. | 1.7 | 228 |
| 47 | Preparation of nickel-iron hydroxides by microorganism corrosion for efficient oxygen evolution. Nature Communications, 2020, 11, 5075. | 5.8 | 226 |
| 48 | Selfâ€Supported Interconnected Pt Nanoassemblies as Highly Stable Electrocatalysts for Lowâ€Temperature Fuel Cells. Angewandte Chemie - International Edition, 2012, 51, 7213-7216. | 7.2 | 211 |
| 49 | Universal Surface Engineering of Transition Metals for Superior Electrocatalytic Hydrogen Evolution in Neutral Water. Journal of the American Chemical Society, 2017, 139, 12283-12290. | 6.6 | 207 |
| 50 | General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2013, 52, 8643-8647. | 7.2 | 194 |
| 51 | Highly Concave Platinum Nanoframes with Highâ€Index Facets and Enhanced Electrocatalytic Properties. Angewandte Chemie - International Edition, 2013, 52, 12337-12340. | 7.2 | 193 |
| 52 | 2D Nitrogenâ€Doped Carbon Nanotubes/Graphene Hybrid as Bifunctional Oxygen Electrocatalyst for Longâ€Life Rechargeable Znâ€“Air Batteries. Advanced Functional Materials, 2020, 30, 1906081. | 7.8 | 190 |
| 53 | Stabilizing Cu<sup>2+</sup> Ions by Solid Solutions to Promote CO<sub>2</sub> Electroreduction to Methane. Journal of the American Chemical Society, 2022, 144, 2079-2084. | 6.6 | 188 |
| 54 | Construction of Metalâ€“Organic Framework/Conductive Polymer Hybrid for All-Solid-State Fabric Supercapacitor. ACS Applied Materials & Interfaces, 2018, 10, 18021-18028. | 4.0 | 176 |

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|---|---|---|---|
| 55 | Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. Chemical Communications, 2013, 49, 4884. | 2.2 | 175 |
| 56 | Unsupported Platinum-Based Electrocatalysts for Oxygen Reduction Reaction. ACS Energy Letters, 2017, 2, 2035-2043. | 8.8 | 174 |
| 57 | Recent Progress on Transition Metal Oxides as Bifunctional Catalysts for Lithiumâ€Air and Zincâ€Air Batteries. Batteries and Supercaps, 2019, 2, 336-347. | 2.4 | 173 |
| 58 | Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. Advanced Science, 2015, 2, 1500120. | 5.6 | 163 |
| 59 | Research advances in unsupported Pt-based catalysts for electrochemical methanol oxidation. Journal of Energy Chemistry, 2017, 26, 1067-1076. | 7.1 | 163 |
| 60 | Hybridization design of materials and devices for flexible electrochemical energy storage. Energy Storage Materials, 2019, 19, 212-241. | 9.5 | 163 |
| 61 | Surface reconstruction of cobalt phosphide nanosheets by electrochemical activation for enhanced hydrogen evolution in alkaline solution. Chemical Science, 2019, 10, 2019-2024. | 3.7 | 163 |
| 62 | Reconstructed Water Oxidation Electrocatalysts: The Impact of Surface Dynamics on Intrinsic Activities. Advanced Functional Materials, 2021, 31, 2008190. | 7.8 | 161 |
| 63 | Three-Dimensional Hierarchically Porous All-Carbon Foams for Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 15302-15308. | 4.0 | 159 |
| 64 | Local spin-state tuning of cobaltâ€“iron selenide nanoframes for the boosted oxygen evolution. Energy and Environmental Science, 2021, 14, 365-373. | 15.6 | 159 |
| 65 | Redox Tuning in Crystalline and Electronic Structure of Bimetalâ€“Organic Frameworks Derived Cobalt/Nickel Boride/Sulfide for Boosted Faradaic Capacitance. Advanced Materials, 2019, 31, e1905744. | 11.1 | 158 |
| 66 | Negative Charging of Transitionâ€Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. Angewandte Chemie - International Edition, 2019, 58, 11796-11800. | 7.2 | 155 |
| 67 | Integrated Conductive Hybrid Architecture of Metalâ€“Organic Framework Nanowire Array on Polypyrrole Membrane for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Energy Materials, 2020, 10, 1901892. | 10.2 | 154 |
| 68 | Bifunctionality and Mechanism of Electrodeposited Nickelâ€“Phosphorous Films for Efficient Overall Water Splitting. ChemCatChem, 2016, 8, 106-112. | 1.8 | 147 |
| 69 | Formation of a Tubular Assembly by Ultrathin Ti<sub>0.8</sub>Co<sub>0.2</sub>N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogenâ€“/Metalâ€“Air Fuel Cells. ACS Catalysis, 2018, 8, 8970-8975. | 5.5 | 147 |
| 70 | Electrocatalytic and photocatalytic hydrogen evolution integrated with organic oxidation. Chemical Communications, 2018, 54, 5943-5955. | 2.2 | 142 |
| 71 | Recent Progress on Two-dimensional Electrocatalysis. Chemical Research in Chinese Universities, 2020, 36, 611-621. | 1.3 | 140 |
| 72 | Easy synthesis of hollow core, bimodal mesoporous shell carbon nanospheres and their application in supercapacitor. Chemical Communications, 2011, 47, 12364. | 2.2 | 134 |

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|---|---|---|---|
| 73 | Engineering 2D Photocatalysts toward Carbon Dioxide Reduction. Advanced Energy Materials, 2021, 11, 2003159. | 10.2 | 130 |
| 74 | Microwave vs. solvothermal synthesis of hollow cobalt sulfide nanoprisms for electrocatalytic hydrogen evolution and supercapacitors. Chemical Communications, 2015, 51, 4252-4255. | 2.2 | 129 |
| 75 | Hollow Nitrogen-Doped Carbon Spheres with Fe<sub>3</sub>O<sub>4</sub> Nanoparticles Encapsulated as a Highly Active Oxygen-Reduction Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 10610-10617. | 4.0 | 128 |
| 76 | Trimetallic PtAgCu@PtCu core@shell concave nanooctahedrons with enhanced activity for formic acid oxidation reaction. Nano Energy, 2015, 12, 824-832. | 8.2 | 126 |
| 77 | Continuous nitrogen-doped carbon nanotube matrix for boosting oxygen electrocatalysis in rechargeable Zn-air batteries. Journal of Energy Chemistry, 2021, 55, 183-189. | 7.1 | 125 |
| 78 | N-doped carbon shell coated CoP nanocrystals encapsulated in porous N-doped carbon substrate as efficient electrocatalyst of water splitting. Carbon, 2019, 144, 464-471. | 5.4 | 119 |
| 79 | Metalâ€“Organic Frameworks Based Electrocatalysts for the Oxygen Reduction Reaction. Angewandte Chemie, 2020, 132, 4662-4678. | 1.6 | 114 |
| 80 | Sandwich-structured TiO2â€“Ptâ€“graphene ternary hybrid electrocatalysts with high efficiency and stability. Journal of Materials Chemistry, 2012, 22, 16499. | 6.7 | 112 |
| 81 | Highly Selective Carbon Dioxide Electroreduction on Structure-Evolved Copper Perovskite Oxide toward Methane Production. ACS Catalysis, 2020, 10, 4640-4646. | 5.5 | 112 |
| 82 | Metalâ€“organic framework-derived hierarchical ultrathin CoP nanosheets for overall water splitting. Journal of Materials Chemistry A, 2020, 8, 19254-19261. | 5.2 | 111 |
| 83 | Atmosphericâ€Pressure Synthesis of 2D Nitrogenâ€Rich Tungsten Nitride. Advanced Materials, 2018, 30, e1805655. | 11.1 | 104 |
| 84 | Raw biomass electroreforming coupled to green hydrogen generation. Nature Communications, 2021, 12, 2008. | 5.8 | 104 |
| 85 | Scalable Molten Salt Synthesis of Platinum Alloys Planted in Metalâ€“Nitrogenâ€“Graphene for Efficient Oxygen Reduction. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 102 |
| 86 | Self-Assembly Synthesis of N-Doped Carbon Aerogels for Supercapacitor and Electrocatalytic Oxygen Reduction. ACS Applied Materials & Interfaces, 2015, 7, 12760-12766. | 4.0 | 101 |
| 87 | Rational design and synthesis of one-dimensional platinum-based nanostructures for oxygen-reduction electrocatalysis. Chinese Journal of Catalysis, 2022, 43, 1459-1472. | 6.9 | 95 |
| 88 | Simultaneous H<sub>2</sub> Generation and Biomass Upgrading in Water by an Efficient Nobleâ€Metalâ€Free Bifunctional Electrocatalyst. Angewandte Chemie, 2016, 128, 10067-10071. | 1.6 | 94 |
| 89 | Graphene Oxideâ€Dispersed Pristine CNTs Support for MnO<sub>2</sub> Nanorods as High Performance Supercapacitor Electrodes. ChemSusChem, 2013, 6, 474-480. | 3.6 | 92 |
| 90 | Integrated design for electrocatalytic carbon dioxide reduction. Catalysis Science and Technology, 2020, 10, 2711-2720. | 2.1 | 92 |

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|---|---|---|---|
| 91 | Highly efficient electroconversion of carbon dioxide into hydrocarbons by cathodized copperâ€“organic frameworks. Chemical Science, 2019, 10, 7975-7981. | 3.7 | 91 |
| 92 | Efficient Electroconversion of Carbon Dioxide to Formate by a Reconstructed Aminoâ€Functionalized Indiumâ€“Organic Framework Electrocatalyst. Angewandte Chemie - International Edition, 2021, 60, 19107-19112. | 7.2 | 89 |
| 93 | Recent Advances on Electrospun Nanomaterials for Zincâ€“Air Batteries. Small Science, 2021, 1, 2100010. | 5.8 | 88 |
| 94 | A core/shell structured tubular graphene nanoflake-coated polypyrrole hybrid for all-solid-state flexible supercapacitors. Journal of Materials Chemistry A, 2018, 6, 3913-3918. | 5.2 | 87 |
| 95 | Advanced Oxygen Electrocatalysis in Energy Conversion and Storage. Advanced Functional Materials, 2021, 31, 2007602. | 7.8 | 86 |
| 96 | Platinum Multicubes Prepared by Ni<sup>2+</sup>â€Mediated Shape Evolution Exhibit High Electrocatalytic Activity for Oxygen Reduction. Angewandte Chemie - International Edition, 2015, 54, 5666-5671. | 7.2 | 84 |
| 97 | In situ formation of Ni<sub>3</sub>Se<sub>4</sub> nanorod arrays as versatile electrocatalysts for electrochemical oxidation reactions in hybrid water electrolysis. Journal of Materials Chemistry A, 2018, 6, 15653-15658. | 5.2 | 84 |
| 98 | Recent Advances on MOF Derivatives for Non-Noble Metal Oxygen Electrocatalysts in Zinc-Air Batteries. Nano-Micro Letters, 2021, 13, 137. | 14.4 | 84 |
| 99 | Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 2488-2495. | 5.2 | 83 |
| 100 | Partial sulfuration-induced defect and interface tailoring on bismuth oxide for promoting electrocatalytic CO<sub>2</sub>reduction. Journal of Materials Chemistry A, 2020, 8, 2472-2480. | 5.2 | 82 |
| 101 | Novel synthesis of N-doped graphene as an efficient electrocatalyst towards oxygen reduction. Nano Research, 2016, 9, 808-819. | 5.8 | 81 |
| 102 | Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. Advanced Energy Materials, 2019, 9, 1901503. | 10.2 | 79 |
| 103 | Trimetallic PtRhNi alloy nanoassemblies as highly active electrocatalyst for ethanol electrooxidation. Nano Research, 2017, 10, 3324-3332. | 5.8 | 79 |
| 104 | Facile Surface Modification of Ubiquitous Stainless Steel Led to Competent Electrocatalysts for Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2017, 5, 4778-4784. | 3.2 | 78 |
| 105 | Electrocatalysis of Furfural Oxidation Coupled with H<sub>2</sub> Evolution via Nickelâ€Based Electrocatalysts in Water. ChemNanoMat, 2017, 3, 491-495. | 1.5 | 78 |
| 106 | Bio-inspired design of hierarchical FeP nanostructure arrays for the hydrogen evolution reaction. Nano Research, 2018, 11, 3537-3547. | 5.8 | 78 |
| 107 | A Dendriteâ€Free Lithium/Carbon Nanotube Hybrid for Lithiumâ€Metal Batteries. Advanced Materials, 2021, 33, e2006702. | 11.1 | 77 |
| 108 | Chalcogenide and Phosphide Solidâ€State Electrocatalysts for Hydrogen Generation. ChemPlusChem, 2016, 81, 1045-1055. | 1.3 | 74 |

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|---|---|---|---|
| 109 | Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. Angewandte Chemie - International Edition, 2021, 60, 25530-25537. | 7.2 | 74 |
| 110 | Synthesis of amorphous boride nanosheets by the chemical reduction of Prussian blue analogs for efficient water electrolysis. Journal of Materials Chemistry A, 2018, 6, 23289-23294. | 5.2 | 73 |
| 111 | Molecular Cleavage of Metalâ€Organic Frameworks and Application to Energy Storage and Conversion. Advanced Materials, 2021, 33, e2104341. | 11.1 | 73 |
| 112 | In situ ion-exchange preparation and topological transformation of trimetalâ€“organic frameworks for efficient electrocatalytic water oxidation. Energy and Environmental Science, 2021, 14, 6546-6553. | 15.6 | 72 |
| 113 | Carbonâ€Confined Indium Oxides for Efficient Carbon Dioxide Reduction in a Solidâ€State Electrolyte Flow Cell. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 72 |
| 114 | Recent advances in carbon substrate supported nonprecious nanoarrays for electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2021, 9, 25773-25795. | 5.2 | 71 |
| 115 | Supercritical CO2-Assisted synthesis of NiFe2O4/vertically-aligned carbon nanotube arrays hybrid as a bifunctional electrocatalyst for efficient overall water splitting. Carbon, 2019, 145, 201-208. | 5.4 | 70 |
| 116 | Electron redistribution of ruthenium-tungsten oxides Mott-Schottky heterojunction for enhanced hydrogen evolution. Applied Catalysis B: Environmental, 2022, 308, 121229. | 10.8 | 69 |
| 117 | Band alignment in Zn2SnO4/SnO2 heterostructure enabling efficient CO2 electrochemical reduction. Nano Energy, 2019, 64, 103954. | 8.2 | 68 |
| 118 | Formation of Ptâ€“TiO<sub>2</sub>â€“rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. Physical Chemistry Chemical Physics, 2012, 14, 473-476. | 1.3 | 67 |
| 119 | Emerging two-dimensional nanocatalysts for electrocatalytic hydrogen production. Chinese Chemical Letters, 2022, 33, 1831-1840. | 4.8 | 67 |
| 120 | In Situ Phase Separation into Coupled Interfaces for Promoting CO<sub>2</sub> Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie - International Edition, 2021, 60, 22940-22947. | 7.2 | 67 |
| 121 | Electrospinning Synthesis of Selfâ€Standing Cobalt/Nanocarbon Hybrid Membrane for Longâ€Life Rechargeable Zincâ€“Air Batteries. Advanced Functional Materials, 2021, 31, 2105021. | 7.8 | 66 |
| 122 | Synthesis of single crystalline two-dimensional transition-metal phosphides via a salt-templating method. Nanoscale, 2018, 10, 6844-6849. | 2.8 | 61 |
| 123 | Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. Nano Energy, 2018, 48, 600-606. | 8.2 | 61 |
| 124 | Metal-organic framework membranes: From synthesis to electrocatalytic applications. Chinese Chemical Letters, 2020, 31, 2189-2201. | 4.8 | 61 |
| 125 | Oxygen Reduction Electrocatalysts toward Practical Fuel Cells: Progress and Perspectives. Angewandte Chemie, 2021, 133, 17976-17996. | 1.6 | 60 |
| 126 | Synthesis and Application of Graphitic Carbon with High Surface Area. Advanced Functional Materials, 2008, 18, 1790-1798. | 7.8 | 59 |

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|---|---|---|---|
| 127 | Exfoliation and dispersion of graphene in ethanol-water mixtures. Frontiers of Materials Science, 2012, 6, 176-182. | 1.1 | 59 |
| 128 | Ti-based electrode materials for electrochemical sodium ion storage and removal. Journal of Materials Chemistry A, 2019, 7, 22163-22188. | 5.2 | 59 |
| 129 | Multifunctional Electroactive Heteroatomâ€Doped Carbon Aerogels. Small, 2014, 10, 4352-4361. | 5.2 | 57 |
| 130 | Ball-milling synthesis of Co<sub>2</sub>P nanoparticles encapsulated in nitrogen doped hollow carbon rods as efficient electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 17563-17569. | 5.2 | 57 |
| 131 | An Earth-Abundant Tungstenâ€“Nickel Alloy Electrocatalyst for Superior Hydrogen Evolution. ACS Applied Nano Materials, 2018, 1, 1228-1235. | 2.4 | 57 |
| 132 | Hierarchical and ultrathin copper nanosheets synthesized via galvanic replacement for selective electrocatalytic carbon dioxide conversion to carbon monoxide. Applied Catalysis B: Environmental, 2019, 255, 117736. | 10.8 | 56 |
| 133 | Engineering one-dimensional and hierarchical PtFe alloy assemblies towards durable methanol electrooxidation. Journal of Materials Chemistry A, 2019, 7, 13090-13095. | 5.2 | 56 |
| 134 | Metalâ€“Organic Frameworkâ€Derived Carbon Nanorods Encapsulating Bismuth Oxides for Rapid and Selective CO<sub>2</sub> Electroreduction to Formate. Angewandte Chemie, 2020, 132, 10899-10905. | 1.6 | 56 |
| 135 | Competent overall water-splitting electrocatalysts derived from ZIF-67 grown on carbon cloth. RSC Advances, 2016, 6, 73336-73342. | 1.7 | 55 |
| 136 | Quasiâ€Emulsion Confined Synthesis of Edgeâ€Rich Ultrathin MoS<sub>2</sub> Nanosheets/Graphene Hybrid for Enhanced Hydrogen Evolution. Chemistry - A European Journal, 2018, 24, 556-560. | 1.7 | 55 |
| 137 | Ambient dinitrogen electrocatalytic reduction for ammonia synthesis. Journal of Materials Chemistry A, 2019, 7, 23416-23431. | 5.2 | 54 |
| 138 | Highâ€Polarity Fluoroalkyl Ether Electrolyte Enables Solvationâ€Free Li<sup>+</sup> Transfer for Highâ€Rate Lithium Metal Batteries. Advanced Science, 2022, 9, e2104699. | 5.6 | 54 |
| 139 | Engineering the Surface/Interface of Horizontally Oriented Carbon Nanotube Macrofilm for Foldable Lithiumâ€Ion Battery Withstanding Variable Weather. Advanced Energy Materials, 2018, 8, 1802349. | 10.2 | 52 |
| 140 | Ionic liquid-assisted synthesis of dual-doped graphene as efficient electrocatalysts for oxygen reduction. Carbon, 2016, 102, 58-65. | 5.4 | 50 |
| 141 | Platinum-Silver Alloy Nanoballoon Nanoassemblies with Super Catalytic Activity for the Formate Electrooxidation. ACS Applied Energy Materials, 2018, 1, 1252-1258. | 2.5 | 50 |
| 142 | Recent Progress on NiFeâ€Based Electrocatalysts for Alkaline Oxygen Evolution. Advanced Sustainable Systems, 2021, 5, . | 2.7 | 50 |
| 143 | Direct integration of ultralow-platinum alloy into nanocarbon architectures for efficient oxygen reduction in fuel cells. Science Bulletin, 2021, 66, 2207-2216. | 4.3 | 49 |
| 144 | Synthesis and Application of Pt Nanocrystals with Controlled Crystallographic Planes. Journal of Physical Chemistry C, 2009, 113, 18115-18120. | 1.5 | 48 |

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|---|---|---|---|
| 145 | Anodic Hydrazine Oxidation Assists Energyâ€Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. Angewandte Chemie, 2018, 130, 7775-7779. | 1.6 | 48 |
| 146 | Transition metal/carbon hybrids for oxygen electrocatalysis in rechargeable <scp>zincâ€air</scp> batteries. EcoMat, 2021, 3, e12067. | 6.8 | 48 |
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