

# Bao Yu Xia

## List of Publications by Year in descending order

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226  
papers

35,924  
citations

3531

90  
h-index

3323

184  
g-index

238  
all docs

238  
docs citations

238  
times ranked

24836  
citing authors

#	ARTICLE	IF	CITATIONS
1	A metal-organic framework-derived bifunctional oxygen electrocatalyst. <i>Nature Energy</i> , 2016, 1, .	39.5	1,974
2	Innovative Strategies for Electrocatalytic Water Splitting. <i>Accounts of Chemical Research</i> , 2018, 51, 1571-1580.	15.6	1,262
3	Porous molybdenum carbide nano-octahedrons synthesized via confined carburization in metal-organic frameworks for efficient hydrogen production. <i>Nature Communications</i> , 2015, 6, 6512.	12.8	1,194
4	Designed Formation of $\text{Co}_3\text{O}_4/\text{NiCo}_2\text{O}_4$ Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2015, 137, 5590-5595.	13.7	1,059
5	A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17587-17603.	10.3	1,037
6	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. <i>Science</i> , 2019, 366, 850-856.	12.6	1,005
7	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2014, 4, 1693-1705.	11.2	769
8	Hierarchically Porous Urchin-Like $\text{Ni}_2\text{P}$ Superstructures Supported on Nickel Foam as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Catalysis</i> , 2016, 6, 714-721.	11.2	737
9	Electrodeposited Cobalt-Phosphorous-Derived Films as Competent Bifunctional Catalysts for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6251-6254.	13.8	712
10	A General Strategy for Decoupled Hydrogen Production from Water Splitting by Integrating Oxidative Biomass Valorization. <i>Journal of the American Chemical Society</i> , 2016, 138, 13639-13646.	13.7	689
11	Advanced Architectures and Relatives of Air Electrodes in Zn-Air Batteries. <i>Advanced Science</i> , 2018, 5, 1700691.	11.2	645
12	Advanced Electrocatalysts for the Oxygen Reduction Reaction in Energy Conversion Technologies. <i>Joule</i> , 2020, 4, 45-68.	24.0	596
13	One-Pot Synthesis of Cubic $\text{PtCu}_3$ Nanocages with Enhanced Electrocatalytic Activity for the Methanol Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 13934-13937.	13.7	581
14	High-Performance Overall Water Splitting Electrocatalysts Derived from Cobalt-Based Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2015, 27, 7636-7642.	6.7	579
15	Hierarchical $\text{Mo}_2\text{C}$ Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15395-15399.	13.8	546
16	Enhancing Electrocatalytic Water Splitting by Strain Engineering. <i>Advanced Materials</i> , 2019, 31, e1807001.	21.0	470
17	Metal-Organic Frameworks Based Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4634-4650.	13.8	457
18	Bimetal-Organic Framework Self-Adjusted Synthesis of Support-Free Nonprecious Electrocatalysts for Efficient Oxygen Reduction. <i>ACS Catalysis</i> , 2015, 5, 7068-7076.	11.2	442

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19	Simultaneous H <sub>2</sub> Generation and Biomass Upgrading in Water by an Efficient Noble-Metal-Free Bifunctional Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9913-9917.	13.8	435
20	Ultrathin and Ultralong Single-Crystal Platinum Nanowire Assemblies with Highly Stable Electrocatalytic Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 9480-9485.	13.7	425
21	Nickel sulfides for electrocatalytic hydrogen evolution under alkaline conditions: a case study of crystalline NiS, Ni <sub>2</sub> S <sub>3</sub> , and Ni <sub>3</sub> S <sub>2</sub> nanoparticles. <i>Catalysis Science and Technology</i> , 2016, 6, 1077-1084.	4.1	408
22	One-Pot Synthesis of Pt-Co Alloy Nanowire Assemblies with Tunable Composition and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3797-3801.	13.8	407
23	Ultrathin MoS <sub>2</sub> Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12794-12798.	8.0	392
24	Surfactant-free atomically ultrathin rhodium nanosheet nanoassemblies for efficient nitrogen electroreduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3211-3217.	10.3	376
25	General Formation of M-MoS <sub>3</sub> (M = Co, Ni) Hollow Structures with Enhanced Electrocatalytic Activity for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 92-97.	21.0	364
26	Anodic Hydrazine Oxidation Assists Energy-Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7649-7653.	13.8	352
27	Three dimensional N-doped graphene-CNT networks for supercapacitor. <i>Chemical Communications</i> , 2013, 49, 5016.	4.1	349
28	Recent progress on graphene-based hybrid electrocatalysts. <i>Materials Horizons</i> , 2014, 1, 379-399.	12.2	303
29	Efficient H <sub>2</sub> Evolution Coupled with Oxidative Refining of Alcohols via A Hierarchically Porous Nickel Bifunctional Electrocatalyst. <i>ACS Catalysis</i> , 2017, 7, 4564-4570.	11.2	295
30	An Efficient and Earth-Abundant Oxygen-Evolving Electrocatalyst Based on Amorphous Metal Borides. <i>Advanced Energy Materials</i> , 2018, 8, 1701475.	19.5	292
31	Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. <i>Energy and Environmental Science</i> , 2016, 9, 1687-1695.	30.8	290
32	Strongly Coupled NiCo <sub>2</sub> O <sub>4</sub> -rGO Hybrid Nanosheets as a Methanol-Tolerant Electrocatalyst for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2014, 26, 2408-2412.	21.0	283
33	Integrating Electrocatalytic 5-Hydroxymethylfurfural Oxidation and Hydrogen Production via Co-P-Derived Electrocatalysts. <i>ACS Energy Letters</i> , 2016, 1, 386-390.	17.4	272
34	Hierarchically Porous Nickel Sulfide Multifunctional Superstructures. <i>Advanced Energy Materials</i> , 2016, 6, 1502333.	19.5	268
35	Molybdenum Carbide-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 10947-10961.	3.3	267
36	Oxygen Reduction Electrocatalysts toward Practical Fuel Cells: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17832-17852.	13.8	265

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37	Densely Populated Isolated Single Co $\frac{1}{2}$ N Site for Efficient Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2019, 9, 1900149.	19.5	262
38	Metal/covalent $\frac{1}{2}$ organic frameworks-based electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15905-15926.	10.3	258
39	Vertically oriented MoS $\frac{2}{2}$ and WS $\frac{2}{2}$ nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 131-135.	10.3	254
40	Arrays of ultrafine CuS nanoneedles supported on a CNT backbone for application in supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 7851.	6.7	253
41	Metal $\frac{1}{2}$ Organic Framework $\frac{1}{2}$ Derived Carbon Nanorods Encapsulating Bismuth Oxides for Rapid and Selective CO $\frac{2}{2}$ Electroreduction to Formate. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10807-10813.	13.8	251
42	Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. <i>Nano Energy</i> , 2019, 60, 894-902.	16.0	250
43	A Zeolitic $\frac{1}{2}$ imidazole Frameworks $\frac{1}{2}$ Derived Interconnected Macroporous Carbon Matrix for Efficient Oxygen Electrocatalysis in Rechargeable Zinc $\frac{1}{2}$ Air Batteries. <i>Advanced Materials</i> , 2020, 32, e2002170.	21.0	240
44	Advanced Platinum-Based Oxygen Reduction Electrocatalysts for Fuel Cells. <i>Accounts of Chemical Research</i> , 2021, 54, 311-322.	15.6	237
45	Bismuth Oxides with Enhanced Bismuth $\frac{1}{2}$ Oxygen Structure for Efficient Electrochemical Reduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2020, 10, 743-750.	11.2	234
46	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2015, 21, 18062-18067.	3.3	228
47	Preparation of nickel-iron hydroxides by microorganism corrosion for efficient oxygen evolution. <i>Nature Communications</i> , 2020, 11, 5075.	12.8	226
48	Self $\frac{1}{2}$ Suported Interconnected Pt Nanoassemblies as Highly Stable Electrocatalysts for Low $\frac{1}{2}$ Temperature Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7213-7216.	13.8	211
49	Universal Surface Engineering of Transition Metals for Superior Electrocatalytic Hydrogen Evolution in Neutral Water. <i>Journal of the American Chemical Society</i> , 2017, 139, 12283-12290.	13.7	207
50	General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium $\frac{1}{2}$ Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8643-8647.	13.8	194
51	Highly Concave Platinum Nanoframes with High $\frac{1}{2}$ Index Facets and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12337-12340.	13.8	193
52	2D Nitrogen $\frac{1}{2}$ Doped Carbon Nanotubes/Graphene Hybrid as Bifunctional Oxygen Electrocatalyst for Long $\frac{1}{2}$ Life Rechargeable Zn $\frac{1}{2}$ Air Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1906081.	14.9	190
53	Stabilizing Cu $\frac{2+}{2}$ Ions by Solid Solutions to Promote CO $\frac{2}{2}$ Electroreduction to Methane. <i>Journal of the American Chemical Society</i> , 2022, 144, 2079-2084.	13.7	188
54	Construction of Metal $\frac{1}{2}$ Organic Framework/Conductive Polymer Hybrid for All-Solid-State Fabric Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18021-18028.	8.0	176

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55	Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. <i>Chemical Communications</i> , 2013, 49, 4884.	4.1	175
56	Unsupported Platinum-Based Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2017, 2, 2035-2043.	17.4	174
57	Recent Progress on Transition Metal Oxides as Bifunctional Catalysts for Lithium-Air and Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 336-347.	4.7	173
58	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. <i>Advanced Science</i> , 2015, 2, 1500120.	11.2	163
59	Research advances in unsupported Pt-based catalysts for electrochemical methanol oxidation. <i>Journal of Energy Chemistry</i> , 2017, 26, 1067-1076.	12.9	163
60	Hybridization design of materials and devices for flexible electrochemical energy storage. <i>Energy Storage Materials</i> , 2019, 19, 212-241.	18.0	163
61	Surface reconstruction of cobalt phosphide nanosheets by electrochemical activation for enhanced hydrogen evolution in alkaline solution. <i>Chemical Science</i> , 2019, 10, 2019-2024.	7.4	163
62	Reconstructed Water Oxidation Electrocatalysts: The Impact of Surface Dynamics on Intrinsic Activities. <i>Advanced Functional Materials</i> , 2021, 31, 2008190.	14.9	161
63	Three-Dimensional Hierarchically Porous All-Carbon Foams for Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15302-15308.	8.0	159
64	Local spin-state tuning of cobalt-iron selenide nanoframes for the boosted oxygen evolution. <i>Energy and Environmental Science</i> , 2021, 14, 365-373.	30.8	159
65	Redox Tuning in Crystalline and Electronic Structure of Bimetal-Organic Frameworks Derived Cobalt/Nickel Boride/Sulfide for Boosted Faradaic Capacitance. <i>Advanced Materials</i> , 2019, 31, e1905744.	21.0	158
66	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11796-11800.	13.8	155
67	Integrated Conductive Hybrid Architecture of Metal-Organic Framework Nanowire Array on Polypyrrole Membrane for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 1901892.	19.5	154
68	Bifunctionality and Mechanism of Electrodeposited Nickel-Phosphorous Films for Efficient Overall Water Splitting. <i>ChemCatChem</i> , 2016, 8, 106-112.	3.7	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 Hydrogen/Metal-Air Fuel Cells. <i>ACS Catalysis</i> , 2018, 8, 8970-8975.	11.2	147
70	Electrocatalytic and photocatalytic hydrogen evolution integrated with organic oxidation. <i>Chemical Communications</i> , 2018, 54, 5943-5955.	4.1	142
71	Recent Progress on Two-dimensional Electrocatalysis. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 611-621.	2.6	140
72	Easy synthesis of hollow core, bimodal mesoporous shell carbon nanospheres and their application in supercapacitor. <i>Chemical Communications</i> , 2011, 47, 12364.	4.1	134

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73	Engineering 2D Photocatalysts toward Carbon Dioxide Reduction. <i>Advanced Energy Materials</i> , 2021, 11, 2003159.	19.5	130
74	Microwave vs. solvothermal synthesis of hollow cobalt sulfide nanoprisms for electrocatalytic hydrogen evolution and supercapacitors. <i>Chemical Communications</i> , 2015, 51, 4252-4255.	4.1	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. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10610-10617.	8.0	128
76	Trimetallic PtAgCu@PtCu core@shell concave nanooctahedrons with enhanced activity for formic acid oxidation reaction. <i>Nano Energy</i> , 2015, 12, 824-832.	16.0	126
77	Continuous nitrogen-doped carbon nanotube matrix for boosting oxygen electrocatalysis in rechargeable Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2021, 55, 183-189.	12.9	125
78	N-doped carbon shell coated CoP nanocrystals encapsulated in porous N-doped carbon substrate as efficient electrocatalyst of water splitting. <i>Carbon</i> , 2019, 144, 464-471.	10.3	119
79	Metal-Organic Frameworks Based Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2020, 132, 4662-4678.	2.0	114
80	Sandwich-structured TiO <sub>2</sub> @Pt-graphene ternary hybrid electrocatalysts with high efficiency and stability. <i>Journal of Materials Chemistry</i> , 2012, 22, 16499.	6.7	112
81	Highly Selective Carbon Dioxide Electroreduction on Structure-Evolved Copper Perovskite Oxide toward Methane Production. <i>ACS Catalysis</i> , 2020, 10, 4640-4646.	11.2	112
82	Metal-organic framework-derived hierarchical ultrathin CoP nanosheets for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19254-19261.	10.3	111
83	Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. <i>Advanced Materials</i> , 2018, 30, e1805655.	21.0	104
84	Raw biomass electroreforming coupled to green hydrogen generation. <i>Nature Communications</i> , 2021, 12, 2008.	12.8	104
85	Scalable Molten Salt Synthesis of Platinum Alloys Planted in Metal-Nitrogen-Graphene for Efficient Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	102
86	Self-Assembly Synthesis of N-Doped Carbon Aerogels for Supercapacitor and Electrocatalytic Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12760-12766.	8.0	101
87	Rational design and synthesis of one-dimensional platinum-based nanostructures for oxygen-reduction electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1459-1472.	14.0	95
88	Simultaneous H <sub>2</sub> Generation and Biomass Upgrading in Water by an Efficient Noble-Free Bifunctional Electrocatalyst. <i>Angewandte Chemie</i> , 2016, 128, 10067-10071.	2.0	94
89	Graphene Oxide-Dispersed Pristine CNTs Support for MnO <sub>2</sub> Nanorods as High Performance Supercapacitor Electrodes. <i>ChemSusChem</i> , 2013, 6, 474-480.	6.8	92
90	Integrated design for electrocatalytic carbon dioxide reduction. <i>Catalysis Science and Technology</i> , 2020, 10, 2711-2720.	4.1	92

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91	Highly efficient electroconversion of carbon dioxide into hydrocarbons by cathodized copperâ€‘organic frameworks. <i>Chemical Science</i> , 2019, 10, 7975-7981.	7.4	91
92	Efficient Electroconversion of Carbon Dioxide to Formate by a Reconstructed Aminoâ€‘Functionalized Indiumâ€‘Organic Framework Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19107-19112.	13.8	89
93	Recent Advances on Electrospun Nanomaterials for Zincâ€‘Air Batteries. <i>Small Science</i> , 2021, 1, 2100010.	9.9	88
94	A core/shell structured tubular graphene nanoflake-coated polypyrrole hybrid for all-solid-state flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3913-3918.	10.3	87
95	Advanced Oxygen Electrocatalysis in Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2007602.	14.9	86
96	Platinum Multicubes Prepared by Ni <sup>2+</sup> -Mediated Shape Evolution Exhibit High Electrocatalytic Activity for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5666-5671.	13.8	84
97	<i>In situ</i> formation of Ni <sub>3</sub> Se <sub>4</sub> nanorod arrays as versatile electrocatalysts for electrochemical oxidation reactions in hybrid water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15653-15658.	10.3	84
98	Recent Advances on MOF Derivatives for Non-Noble Metal Oxygen Electrocatalysts in Zinc-Air Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 137.	27.0	84
99	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zincâ€‘air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2488-2495.	10.3	83
100	Partial sulfuration-induced defect and interface tailoring on bismuth oxide for promoting electrocatalytic CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2472-2480.	10.3	82
101	Novel synthesis of N-doped graphene as an efficient electrocatalyst towards oxygen reduction. <i>Nano Research</i> , 2016, 9, 808-819.	10.4	81
102	Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1901503.	19.5	79
103	Trimetallic PtRhNi alloy nanoassemblies as highly active electrocatalyst for ethanol electrooxidation. <i>Nano Research</i> , 2017, 10, 3324-3332.	10.4	79
104	Facile Surface Modification of Ubiquitous Stainless Steel Led to Competent Electrocatalysts for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4778-4784.	6.7	78
105	Electrocatalysis of Furfural Oxidation Coupled with H <sub>2</sub> Evolution via Nickel-Based Electrocatalysts in Water. <i>ChemNanoMat</i> , 2017, 3, 491-495.	2.8	78
106	Bio-inspired design of hierarchical FeP nanostructure arrays for the hydrogen evolution reaction. <i>Nano Research</i> , 2018, 11, 3537-3547.	10.4	78
107	A Dendrite-Free Lithium/Carbon Nanotube Hybrid for Lithium-Metal Batteries. <i>Advanced Materials</i> , 2021, 33, e2006702.	21.0	77
108	Chalcogenide and Phosphide Solid-State Electrocatalysts for Hydrogen Generation. <i>ChemPlusChem</i> , 2016, 81, 1045-1055.	2.8	74

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109	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25530-25537.	13.8	74
110	Synthesis of amorphous boride nanosheets by the chemical reduction of Prussian blue analogs for efficient water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23289-23294.	10.3	73
111	Molecular Cleavage of Metal-Organic Frameworks and Application to Energy Storage and Conversion. <i>Advanced Materials</i> , 2021, 33, e2104341.	21.0	73
112	<i>In situ</i> ion-exchange preparation and topological transformation of trimetal-organic frameworks for efficient electrocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2021, 14, 6546-6553.	30.8	72
113	Carbon-Confined Indium Oxides for Efficient Carbon Dioxide Reduction in a Solid-State Electrolyte Flow Cell. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	72
114	Recent advances in carbon substrate supported nonprecious nanoarrays for electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25773-25795.	10.3	71
115	Supercritical CO <sub>2</sub> -Assisted synthesis of NiFe <sub>2</sub> O <sub>4</sub> /vertically-aligned carbon nanotube arrays hybrid as a bifunctional electrocatalyst for efficient overall water splitting. <i>Carbon</i> , 2019, 145, 201-208.	10.3	70
116	Electron redistribution of ruthenium-tungsten oxides Mott-Schottky heterojunction for enhanced hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2022, 308, 121229.	20.2	69
117	Band alignment in Zn <sub>2</sub> SnO <sub>4</sub> /SnO <sub>2</sub> heterostructure enabling efficient CO <sub>2</sub> electrochemical reduction. <i>Nano Energy</i> , 2019, 64, 103954.	16.0	68
118	Formation of Pt-TiO <sub>2</sub> -rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 473-476.	2.8	67
119	Emerging two-dimensional nanocatalysts for electrocatalytic hydrogen production. <i>Chinese Chemical Letters</i> , 2022, 33, 1831-1840.	9.0	67
120	In Situ Phase Separation into Coupled Interfaces for Promoting CO <sub>2</sub> Electroreduction to Formate over a Wide Potential Window. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22940-22947.	13.8	67
121	Electrospinning Synthesis of Self-Standing Cobalt/Nanocarbon Hybrid Membrane for Long-Life Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2105021.	14.9	66
122	Synthesis of single crystalline two-dimensional transition-metal phosphides <i>via</i> a salt-templating method. <i>Nanoscale</i> , 2018, 10, 6844-6849.	5.6	61
123	Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. <i>Nano Energy</i> , 2018, 48, 600-606.	16.0	61
124	Metal-organic framework membranes: From synthesis to electrocatalytic applications. <i>Chinese Chemical Letters</i> , 2020, 31, 2189-2201.	9.0	61
125	Oxygen Reduction Electrocatalysts toward Practical Fuel Cells: Progress and Perspectives. <i>Angewandte Chemie</i> , 2021, 133, 17976-17996.	2.0	60
126	Synthesis and Application of Graphitic Carbon with High Surface Area. <i>Advanced Functional Materials</i> , 2008, 18, 1790-1798.	14.9	59



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127	Exfoliation and dispersion of graphene in ethanol-water mixtures. <i>Frontiers of Materials Science</i> , 2012, 6, 176-182.	2.2	59
128	Ti-based electrode materials for electrochemical sodium ion storage and removal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22163-22188.	10.3	59
129	Multifunctional Electroactive Heteroatom-Doped Carbon Aerogels. <i>Small</i> , 2014, 10, 4352-4361.	10.0	57
130	Ball-milling synthesis of Co <sub>2</sub> P nanoparticles encapsulated in nitrogen doped hollow carbon rods as efficient electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17563-17569.	10.3	57
131	An Earth-Abundant Tungsten-Nickel Alloy Electrocatalyst for Superior Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2018, 1, 1228-1235.	5.0	57
132	Hierarchical and ultrathin copper nanosheets synthesized via galvanic replacement for selective electrocatalytic carbon dioxide conversion to carbon monoxide. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117736.	20.2	56
133	Engineering one-dimensional and hierarchical PtFe alloy assemblies towards durable methanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13090-13095.	10.3	56
134	Metal-Organic Framework-Derived Carbon Nanorods Encapsulating Bismuth Oxides for Rapid and Selective CO <sub>2</sub> Electroreduction to Formate. <i>Angewandte Chemie</i> , 2020, 132, 10899-10905.	2.0	56
135	Competent overall water-splitting electrocatalysts derived from ZIF-67 grown on carbon cloth. <i>RSC Advances</i> , 2016, 6, 73336-73342.	3.6	55
136	Quasi-Emulsion Confined Synthesis of Edge-Rich Ultrathin MoS <sub>2</sub> Nanosheets/Graphene Hybrid for Enhanced Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2018, 24, 556-560.	3.3	55
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