

Xiao-Qing Huang

List of Publications by Year in descending order

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234
papers

30,157
citations

3930

88
h-index

5118

166
g-index

240
all docs

240
docs citations

240
times ranked

22494
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance transition metal-doped Pt ₃ Ni octahedra for oxygen reduction reaction. <i>Science</i> , 2015, 348, 1230-1234.	6.0	1,623
2	Freestanding palladium nanosheets with plasmonic and catalytic properties. <i>Nature Nanotechnology</i> , 2011, 6, 28-32.	15.6	1,423
3	Biaxially strained PtPb/Pt core/shell nanoplate boosts oxygen reduction catalysis. <i>Science</i> , 2016, 354, 1410-1414.	6.0	1,262
4	Holey graphene frameworks for highly efficient capacitive energy storage. <i>Nature Communications</i> , 2014, 5, 4554.	5.8	1,161
5	Precise tuning in platinum-nickel/nickel sulfide interface nanowires for synergistic hydrogen evolution catalysis. <i>Nature Communications</i> , 2017, 8, 14580.	5.8	648
6	Metallic nanostructures with low dimensionality for electrochemical water splitting. <i>Chemical Society Reviews</i> , 2020, 49, 3072-3106.	18.7	609
7	Surface engineering of hierarchical platinum-cobalt nanowires for efficient electrocatalysis. <i>Nature Communications</i> , 2016, 7, 11850.	5.8	607
8	Interfacial electronic effects control the reaction selectivity of platinum catalysts. <i>Nature Materials</i> , 2016, 15, 564-569.	13.3	548
9	Nanoscale Trimetallic Metal-Organic Frameworks Enable Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1888-1892.	7.2	536
10	Amine-Assisted Synthesis of Concave Polyhedral Platinum Nanocrystals Having {411} High-Index Facets. <i>Journal of the American Chemical Society</i> , 2011, 133, 4718-4721.	6.6	489
11	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 10677-10683.	6.6	474
12	Stabilization of High-Performance Oxygen Reduction Reaction Pt Electrocatalyst Supported on Reduced Graphene Oxide/Carbon Black Composite. <i>Journal of the American Chemical Society</i> , 2012, 134, 12326-12329.	6.6	451
13	Large-Scale, Bottom-Up Synthesis of Binary Metal-Organic Framework Nanosheets for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7051-7056.	7.2	386
14	Core-Shell Pd@Au Nanoplates as Theranostic Agents for In Vivo Photoacoustic Imaging, CT Imaging, and Photothermal Therapy. <i>Advanced Materials</i> , 2014, 26, 8210-8216.	11.1	383
15	Highly Active and Selective Hydrogenation of CO ₂ to Ethanol by Ordered Pd-Cu Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 6827-6830.	6.6	344
16	Ultrathin Laminar Ir Superstructure as Highly Efficient Oxygen Evolution Electrocatalyst in Broad pH Range. <i>Nano Letters</i> , 2016, 16, 4424-4430.	4.5	339
17	Efficient oxygen reduction catalysis by subnanometer Pt alloy nanowires. <i>Science Advances</i> , 2017, 3, e1601705.	4.7	330
18	General Formation of Monodisperse IrM (M = Ni, Co, Fe) Bimetallic Nanoclusters as Bifunctional Electrocatalysts for Acidic Overall Water Splitting. <i>Advanced Functional Materials</i> , 2017, 27, 1700886.	7.8	321

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19	Amorphization activated ruthenium-tellurium nanorods for efficient water splitting. <i>Nature Communications</i> , 2019, 10, 5692.	5.8	312
20	Phase and Interface Engineering of Platinum-Nickel Nanowires for Efficient Electrochemical Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12859-12863.	7.2	311
21	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020, 11, 5437.	5.8	288
22	Recent Progress in Advanced Electrocatalyst Design for Acidic Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021, 33, e2004243.	11.1	284
23	A General Method for Multimetallic Platinum Alloy Nanowires as Highly Active and Stable Oxygen Reduction Catalysts. <i>Advanced Materials</i> , 2015, 27, 7204-7212.	11.1	280
24	Ordered PdCu-Based Nanoparticles as Bifunctional Oxygen Reduction and Ethanol Oxidation Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9030-9035.	7.2	278
25	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13983-13988.	7.2	274
26	Oxygen Vacancies in Amorphous InO ₂ Nanoribbons Enhance CO ₂ Adsorption and Activation for CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5609-5613.	7.2	273
27	One-Pot, High-Yield Synthesis of 5-Fold Twinned Pd Nanowires and Nanorods. <i>Journal of the American Chemical Society</i> , 2009, 131, 4602-4603.	6.6	259
28	Simplifying the Creation of Hollow Metallic Nanostructures: One-Pot Synthesis of Hollow Palladium/Platinum Single-Crystalline Nanocubes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4808-4812.	7.2	258
29	Cobalt-molybdenum nanosheet arrays as highly efficient and stable earth-abundant electrocatalysts for overall water splitting. <i>Nano Energy</i> , 2018, 45, 448-455.	8.2	257
30	Oxygen-Incorporated NiMoP Nanotube Arrays as Efficient Bifunctional Electrocatalysts For Urea-Assisted Energy-Saving Hydrogen Production in Alkaline Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2104951.	7.8	247
31	Enhancing the Photothermal Stability of Plasmonic Metal Nanoplates by a Core-Shell Architecture. <i>Advanced Materials</i> , 2011, 23, 3420-3425.	11.1	240
32	Controlled Formation of Concave Tetrahedral/Trigonal Bipyramidal Palladium Nanocrystals. <i>Journal of the American Chemical Society</i> , 2009, 131, 13916-13917.	6.6	238
33	A Facile Strategy to Pt ₃ Ni Nanocrystals with Highly Porous Features as an Enhanced Oxygen Reduction Reaction Catalyst. <i>Advanced Materials</i> , 2013, 25, 2974-2979.	11.1	232
34	Synthesis of PtPd Bimetal Nanocrystals with Controllable Shape, Composition, and Their Tunable Catalytic Properties. <i>Nano Letters</i> , 2012, 12, 4265-4270.	4.5	227
35	Trimetallic Oxyhydroxide Coraloids for Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4502-4506.	7.2	225
36	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. <i>Advanced Materials</i> , 2019, 31, e1805833.	11.1	223

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37	Opportunities and Challenges of Interface Engineering in Bimetallic Nanostructure for Enhanced Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1806419.	7.8	223
38	Screw Thread-Like Platinum-Copper Nanowires Bounded with High-Index Facets for Efficient Electrocatalysis. <i>Nano Letters</i> , 2016, 16, 5037-5043.	4.5	221
39	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020, 49, 1109-1143.	18.7	211
40	One-step strategy to graphene/Ni(OH) ₂ composite hydrogels as advanced three-dimensional supercapacitor electrode materials. <i>Nano Research</i> , 2013, 6, 65-76.	5.8	202
41	An Assembly Route to Inorganic Catalytic Nanoreactors Containing Sub-10 nm Gold Nanoparticles with Anti-Aggregation Properties. <i>Small</i> , 2009, 5, 361-365.	5.2	192
42	Te-Doped Pd Nanocrystal for Electrochemical Urea Production by Efficiently Coupling Carbon Dioxide Reduction with Nitrite Reduction. <i>Nano Letters</i> , 2020, 20, 8282-8289.	4.5	188
43	PtPb/PtNi Intermetallic Core/Atomic Layer Shell Octahedra for Efficient Oxygen Reduction Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 9576-9582.	6.6	185
44	Crystalline Control of {111} Bounded Pt ₃ Cu Nanocrystals: Multiply-Twinned Pt ₃ Cu Icosahedra with Enhanced Electrocatalytic Properties. <i>ACS Nano</i> , 2015, 9, 7634-7640.	7.3	178
45	Morphology and Phase Controlled Construction of Pt-Ni Nanostructures for Efficient Electrocatalysis. <i>Nano Letters</i> , 2016, 16, 2762-2767.	4.5	176
46	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12577-12581.	7.2	174
47	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. <i>Energy and Environmental Science</i> , 2014, 7, 2957-2962.	15.6	172
48	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , 2021, 12, 6261.	5.8	169
49	Double Perovskite LaFeNiO ₃ Nanorods Enable Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2316-2320.	7.2	166
50	Significantly Enhanced Visible Light Photoelectrochemical Activity in TiO ₂ Nanowire Arrays by Nitrogen Implantation. <i>Nano Letters</i> , 2015, 15, 4692-4698.	4.5	159
51	Subnanometer PtRh Nanowire with Alleviated Poisoning Effect and Enhanced C-C Bond Cleavage for Ethanol Oxidation Electrocatalysis. <i>ACS Catalysis</i> , 2019, 9, 6607-6612.	5.5	159
52	Boosting electrocatalytic CO ₂ to ethanol production via asymmetric C-C coupling. <i>Nature Communications</i> , 2022, 13, .	5.8	158
53	Plasmonic and Catalytic AuPd Nanowheels for the Efficient Conversion of Light into Chemical Energy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6063-6067.	7.2	152
54	Co ₃ O ₄ /Fe _{0.33} Co _{0.66} P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. <i>Advanced Materials</i> , 2018, 30, e1803551.	11.1	150

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55	Palladium-Based Nanostructures with Highly Porous Features and Perpendicular Pore Channels as Enhanced Organic Catalysts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2520-2524.	7.2	147
56	Phase and structure engineering of copper tin heterostructures for efficient electrochemical carbon dioxide reduction. <i>Nature Communications</i> , 2018, 9, 4933.	5.8	141
57	Ruthenium-nickel sandwiched nanoplates for efficient water splitting electrocatalysis. <i>Nano Energy</i> , 2018, 47, 1-7.	8.2	137
58	Iridium metallene oxide for acidic oxygen evolution catalysis. <i>Nature Communications</i> , 2021, 12, 6007.	5.8	137
59	Etching Growth under Surface Confinement: An Effective Strategy To Prepare Mesocrystalline Pd Nanocorolla. <i>Journal of the American Chemical Society</i> , 2011, 133, 15946-15949.	6.6	136
60	Nanoscale Trimetallic Metal-Organic Frameworks Enable Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2018, 130, 1906-1910.	1.6	134
61	Coordination tailoring of Cu single sites on C ₃ N ₄ realizes selective CO ₂ hydrogenation at low temperature. <i>Nature Communications</i> , 2021, 12, 6022.	5.8	132
62	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2649-2653.	7.2	131
63	MoS ₂ Nanosheet Assembling Superstructure with a Three-Dimensional Ion Accessible Site: A New Class of Bifunctional Materials for Batteries and Electrocatalysis. <i>Chemistry of Materials</i> , 2016, 28, 2074-2080.	3.2	130
64	Partially Pyrolyzed Binary Metal-Organic Framework Nanosheets for Efficient Electrochemical Hydrogen Peroxide Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14373-14377.	7.2	127
65	Enhancing Oxygen Evolution Electrocatalysis via the Intimate Hydroxide-Oxide Interface. <i>ACS Nano</i> , 2018, 12, 6245-6251.	7.3	123
66	Site-Specified Two-Dimensional Heterojunction of Pt Nanoparticles/Metal-Organic Frameworks for Enhanced Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 16512-16518.	6.6	121
67	Superior overall water splitting electrocatalysis in acidic conditions enabled by bimetallic Ir-Ag nanotubes. <i>Nano Energy</i> , 2019, 56, 330-337.	8.2	120
68	Synthesis of Stable Shape-Controlled Catalytically Active ¹² -Palladium Hydride. <i>Journal of the American Chemical Society</i> , 2015, 137, 15672-15675.	6.6	117
69	Multicomponent Pt-Based Zigzag Nanowires as Selectivity Controllers for Selective Hydrogenation Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 8384-8387.	6.6	117
70	Single-site Pt-doped RuO ₂ hollow nanospheres with interstitial C for high-performance acidic overall water splitting. <i>Science Advances</i> , 2022, 8, eabl9271.	4.7	117
71	Adsorbing and Activating N ₂ on Heterogeneous Au-Fe ₃ O ₄ Nanoparticles for N ₂ Fixation. <i>Advanced Functional Materials</i> , 2020, 30, 1906579.	7.8	114
72	Transition metal-doped ultrathin RuO ₂ networked nanowires for efficient overall water splitting across a broad pH range. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6411-6416.	5.2	111

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73	A General Strategy to Glassy M ₃ Te (M = Ru, Rh, Ir) Porous Nanorods for Efficient Electrochemical N ₂ Fixation. <i>Advanced Materials</i> , 2020, 32, e1907112.	11.1	111
74	Fe-Doped BiOCl Nanosheets with Light-Switchable Oxygen Vacancies for Photocatalytic Nitrogen Fixation. <i>ACS Applied Energy Materials</i> , 2019, 2, 8394-8398.	2.5	109
75	Fully Tensile Strained Pd ₃ Pb/Pd Tetragonal Nanosheets Enhance Oxygen Reduction Catalysis. <i>Nano Letters</i> , 2019, 19, 1336-1342.	4.5	109
76	High Density Catalytic Hot Spots in Ultrafine Wavy Nanowires. <i>Nano Letters</i> , 2014, 14, 3887-3894.	4.5	107
77	Superior Bifunctional Liquid Fuel Oxidation and Oxygen Reduction Electrocatalysis Enabled by PtNiPd Core-Shell Nanowires. <i>Advanced Materials</i> , 2017, 29, 1603774.	11.1	106
78	Three-Dimensional Pd ₃ Pb Nanosheet Assemblies: High-Performance Non-Pt Electrocatalysts for Bifunctional Fuel Cell Reactions. <i>ACS Catalysis</i> , 2018, 8, 4569-4575.	5.5	106
79	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N ₂ Fixation of Metal Nanocrystals. <i>Advanced Materials</i> , 2020, 32, e2001267.	11.1	105
80	Synthesis of magnetic, fluorescent and mesoporous core-shell-structured nanoparticles for imaging, targeting and photodynamic therapy. <i>Journal of Materials Chemistry</i> , 2011, 21, 11244.	6.7	101
81	Structurally Ordered Pt ₃ Sn Nanofibers with Highlighted Antipoisoning Property as Efficient Ethanol Oxidation Electrocatalysts. <i>ACS Catalysis</i> , 2020, 10, 3455-3461.	5.5	101
82	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021, 31, 2006939.	7.8	99
83	3D Platinum-Lead Nanowire Networks as Highly Efficient Ethylene Glycol Oxidation Electrocatalysts. <i>Small</i> , 2016, 12, 4464-4470.	5.2	98
84	Large-Scale, Bottom-Up Synthesis of Binary Metal-Organic Framework Nanosheets for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2019, 131, 7125-7130.	1.6	98
85	pH-Universal Water Splitting Catalyst: Ru-Ni Nanosheet Assemblies. <i>IScience</i> , 2019, 11, 492-504.	1.9	97
86	Platinum Porous Nanosheets with High Surface Distortion and Pt Utilization for Enhanced Oxygen Reduction Catalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1904429.	7.8	96
87	Selective Ethanol Oxidation Reaction at the Rh-SnO ₂ Interface. <i>Advanced Materials</i> , 2021, 33, e2005767.	11.1	96
88	A general approach to synthesise ultrathin NiM (M = Fe, Co, Mn) hydroxide nanosheets as high-performance low-cost electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7769-7775.	5.2	94
89	Surface-modulated palladium-nickel icosahedra as high-performance non-platinum oxygen reduction electrocatalysts. <i>Science Advances</i> , 2018, 4, eaap8817.	4.7	94
90	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020, 132, 2671-2675.	1.6	93

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91	Cation Exchange Strategy to Single-Atom Noble-Metal Doped CuO Nanowire Arrays with Ultralow Overpotential for H ₂ O Splitting. <i>Nano Letters</i> , 2020, 20, 5482-5489.	4.5	93
92	Solvent-Mediated Shape Tuning of Well-Defined Rhodium Nanocrystals for Efficient Electrochemical Water Splitting. <i>Chemistry of Materials</i> , 2017, 29, 5009-5015.	3.2	91
93	Trimetallic PtSnRh Wavy Nanowires as Efficient Nanoelectrocatalysts for Alcohol Electrooxidation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15061-15067.	4.0	90
94	An Efficient Interfacial Synthesis of Two-Dimensional Metal-Organic Framework Nanosheets for Electrochemical Hydrogen Peroxide Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11190-11195.	7.2	89
95	Hierarchical Pt/Pt ₂ Pb Core/Shell Nanowires as Efficient Catalysts for Electrooxidation of Liquid Fuels. <i>Chemistry of Materials</i> , 2016, 28, 4447-4452.	3.2	88
96	Study of CeO ₂ and Its Native Defects by Density Functional Theory with Repulsive Potential. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24248-24256.	1.5	86
97	Selective Surface Reconstruction of a Defective Iridium-Based Catalyst for High-Efficiency Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2004375.	7.8	85
98	Low Dimensional Platinum-Based Bimetallic Nanostructures for Advanced Catalysis. <i>Accounts of Chemical Research</i> , 2019, 52, 3384-3396.	7.6	84
99	Atomic PdAu Interlayer Sandwiched into Pd/Pt Core/Shell Nanowires Achieves Superstable Oxygen Reduction Catalysis. <i>ACS Nano</i> , 2020, 14, 11570-11578.	7.3	84
100	Seedless Growth of Palladium Nanocrystals with Tunable Structures: From Tetrahedra to Nanosheets. <i>Nano Letters</i> , 2015, 15, 7519-7525.	4.5	82
101	Barrier-free Interface Electron Transfer on PtFe-Fe ₂ C Janus-like Nanoparticles Boosts Oxygen Catalysis. <i>CheM</i> , 2018, 4, 1153-1166.	5.8	82
102	Phase and structure modulating of bimetallic CuSn nanowires boosts electrocatalytic conversion of CO ₂ . <i>Nano Energy</i> , 2019, 59, 138-145.	8.2	81
103	Phase and Composition Tuning of 1D Platinum-Nickel Nanostructures for Highly Efficient Electrocatalysis. <i>Advanced Functional Materials</i> , 2017, 27, 1700830.	7.8	80
104	Hollow Pd-Sn Nanocrystals for Efficient Direct H ₂ O ₂ Synthesis: The Critical Role of Sn on Structure Evolution and Catalytic Performance. <i>ACS Catalysis</i> , 2018, 8, 3418-3423.	5.5	80
105	Defect Engineering of Palladium-Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. <i>Nano Letters</i> , 2019, 19, 6894-6903.	4.5	79
106	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. <i>Science Advances</i> , 2020, 6, eaba9731.	4.7	78
107	Single-Atom In-Doped Subnanometer Pt Nanowires for Simultaneous Hydrogen Generation and Biomass Upgrading. <i>Advanced Functional Materials</i> , 2020, 30, 2004310.	7.8	77
108	Highly Efficient Acidic Oxygen Evolution Electrocatalysis Enabled by Porous Ir-Cu Nanocrystals with Three-Dimensional Electrocatalytic Surfaces. <i>Chemistry of Materials</i> , 2018, 30, 8571-8578.	3.2	75

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109	Dynamic Structure Evolution of Composition Segregated Iridium-Nickel Rhombic Dodecahedra toward Efficient Oxygen Evolution Electrocatalysis. <i>ACS Nano</i> , 2018, 12, 7371-7379.	7.3	75
110	The Design of Water Oxidation Electrocatalysts from Nanoscale Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2018, 24, 15143-15155.	1.7	74
111	Amorphous Oxide Nanostructures for Advanced Electrocatalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 3943-3960.	1.7	74
112	Phase and Interface Engineering of Platinum-Nickel Nanowires for Efficient Electrochemical Hydrogen Evolution. <i>Angewandte Chemie</i> , 2016, 128, 13051-13055.	1.6	73
113	Compensating Electronic Effect Enables Fast Site-to-Site Electron Transfer over Ultrathin RuMn Nanosheet Branches toward Highly Electroactive and Stable Water Splitting. <i>Advanced Materials</i> , 2021, 33, e2105308.	11.1	73
114	A Universal Strategy to Metal Wavy Nanowires for Efficient Electrochemical Water Splitting at pH-Universal Conditions. <i>Advanced Functional Materials</i> , 2018, 28, 1803722.	7.8	71
115	P,Se-Codoped MoS ₂ Nanosheets as Accelerated Electrocatalysts for Hydrogen Evolution. <i>ChemCatChem</i> , 2019, 11, 689-692.	1.8	71
116	Closest Packing Polymorphism Interfaced Metastable Transition Metal for Efficient Hydrogen Evolution. <i>Advanced Materials</i> , 2020, 32, e2002857.	11.1	71
117	Trimetallic Oxyhydroxide Coralloids for Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2017, 129, 4573-4577.	1.6	68
118	Grain-Boundary-Engineered La ₂ CuO ₄ Perovskite Nanobamboos for Efficient CO ₂ Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 980-987.	4.5	68
119	Facet and dimensionality control of Pt nanostructures for efficient oxygen reduction and methanol oxidation electrocatalysts. <i>Nano Research</i> , 2016, 9, 2811-2821.	5.8	67
120	Surface oxygen-mediated ultrathin PtRuM (Ni, Fe, and Co) nanowires boosting methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2323-2330.	5.2	67
121	Spin Regulation on 2D Pd-Fe-Pt Nanomeshes Promotes Fuel Electrooxidations. <i>Nano Letters</i> , 2020, 20, 1967-1973.	4.5	67
122	A Strongly Coupled Ultrasmall Pt ₃ Co Nanoparticle-Ultrathin Co(OH) ₂ Nanosheet Architecture Enhances Selective Hydrogenation of α,β^2 -Unsaturated Aldehydes. <i>ACS Catalysis</i> , 2019, 9, 154-159.	5.5	66
123	Exploring Bi ₂ Te ₃ Nanoplates as Versatile Catalysts for Electrochemical Reduction of Small Molecules. <i>Advanced Materials</i> , 2020, 32, e1906477.	11.1	65
124	Multiple structural defects in ultrathin NiFe-LDH nanosheets synergistically and remarkably boost water oxidation reaction. <i>Nano Research</i> , 2022, 15, 310-316.	5.8	65
125	In situ development of highly concave and composition-confined PtNi octahedra with high oxygen reduction reaction activity and durability. <i>Nano Research</i> , 2016, 9, 149-157.	5.8	64
126	Synergized Cu/Pb Core/Shell Electrocatalyst for High-Efficiency CO ₂ Reduction to C ₂₊ Liquids. <i>ACS Nano</i> , 2021, 15, 1039-1047.	7.3	64

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127	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution. <i>Nature Communications</i> , 2022, 13, 1187.	5.8	63
128	Superlattice in a Ru Superstructure for Enhancing Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	62
129	Rationally engineered active sites for efficient and durable hydrogen generation. <i>Nature Communications</i> , 2019, 10, 2281.	5.8	59
130	Trimetallic Molybdate Nanobelts as Active and Stable Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 1013-1018.	5.5	59
131	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14449.	5.2	58
132	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie</i> , 2019, 131, 14121-14126.	1.6	58
133	High-Index Faceted RuCo Nanoscrews for Water Electrosplitting. <i>Advanced Energy Materials</i> , 2020, 10, 2002860.	10.2	58
134	Surface-Regulated Rhodium-Antimony Nanorods for Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8066-8071.	7.2	58
135	Ordered PdCu-Based Nanoparticles as Bifunctional Oxygen-Reduction and Ethanol-Oxidation Electrocatalysts. <i>Angewandte Chemie</i> , 2016, 128, 9176-9181.	1.6	56
136	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. <i>National Science Review</i> , 2020, 7, 1340-1348.	4.6	56
137	Porous Pt-Ni Nanowires within In Situ Generated Metal-Organic Frameworks for Highly Chemoselective Cinnamaldehyde Hydrogenation. <i>Small</i> , 2018, 14, e1704318.	5.2	55
138	Stabilizing and Activating Metastable Nickel Nanocrystals for Highly Efficient Hydrogen Evolution Electrocatalysis. <i>ACS Nano</i> , 2018, 12, 11625-11631.	7.3	55
139	The Advanced Designs of High-Performance Platinum-Based Electrocatalysts: Recent Progresses and Challenges. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800486.	1.9	55
140	Simplifying the Creation of Dumbbell-Like Cu-Ag Nanostructures and Their Enhanced Catalytic Activity. <i>Chemistry - A European Journal</i> , 2012, 18, 9505-9510.	1.7	54
141	Platinum Group Nanowires for Efficient Electrocatalysis. <i>Small Methods</i> , 2019, 3, 1800545.	4.6	53
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