

# Xiao-Qing Huang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225  
papers

20,537  
citations

70  
h-index

139  
g-index

240  
ext. papers

25,066  
ext. citations

13.5  
avg, IF

7.5  
L-index

#	Paper	IF	Citations
225	Superlattice in a Ru superstructure for enhancing hydrogen evolution.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	7
224	Recent progress in low-dimensional palladium-based nanostructures for electrocatalysis and beyond. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 459, 214388	23.2	7
223	Hexagonal PtBi Intermetallic Inlaid with Sub-Monolayer Pb Oxyhydroxide Boosts Methanol Oxidation.. <i>Small</i> , <b>2022</b> , e2107803	11	5
222	Single-site Pt-doped RuO hollow nanospheres with interstitial C for high-performance acidic overall water splitting.. <i>Science Advances</i> , <b>2022</b> , 8, eabl9271	14.3	14
221	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution.. <i>Nature Communications</i> , <b>2022</b> , 13, 1187	17.4	8
220	The self-complementary effect through strong orbital coupling in ultrathin high-entropy alloy nanowires boosting pH-universal multifunctional electrocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121431	21.8	1
219	Mesoporosity-Enabled Selectivity of Mesoporous Palladium-Based Nanocrystals Catalysts in Semihydrogenation of Alkynes.. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , e202114539	16.4	9
218	Site-Specified Two-Dimensional Heterojunction of Pt Nanoparticles/Metal-Organic Frameworks for Enhanced Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 16512-16518	16.4	26
217	Coordination tailoring of Cu single sites on CN realizes selective CO hydrogenation at low temperature. <i>Nature Communications</i> , <b>2021</b> , 12, 6022	17.4	21
216	Iridium metallene oxide for acidic oxygen evolution catalysis. <i>Nature Communications</i> , <b>2021</b> , 12, 6007	17.4	18
215	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> , <b>2021</b> , e2105308	24	17
214	Spontaneous amorphous oxide-interfaced ultrafine noble metal nanoclusters for unexpected anodic electrocatalysis. <i>Chem Catalysis</i> , <b>2021</b> , 1, 1104-1117		4
213	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , <b>2021</b> , 12, 6261	17.4	24
212	Synergized Cu/Pb Core/Shell Electrocatalyst for High-Efficiency CO Reduction to C Liquids. <i>ACS Nano</i> , <b>2021</b> , 15, 1039-1047	16.7	15
211	Recent Progress in Advanced Electrocatalyst Design for Acidic Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2021</b> , e2004243	24	63
210	Interface Confinement in Metal Nanosheet for High-Efficiency Semi-Hydrogenation of Alkynes. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5231-5239	13.1	6
209	Phase-Controlled Synthesis of Pd-Se Nanocrystals for Phase-Dependent Oxygen Reduction Catalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 3805-3812	11.5	11

208	An Efficient Interfacial Synthesis of Two-Dimensional Metal-Organic Framework Nanosheets for Electrochemical Hydrogen Peroxide Production. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11290-11295	3.6	1
207	An Efficient Interfacial Synthesis of Two-Dimensional Metal-Organic Framework Nanosheets for Electrochemical Hydrogen Peroxide Production. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11190-11195	16.4	24
206	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. <i>Science China Materials</i> , <b>2021</b> , 64, 2454-2466	7.1	9
205	Highly Surface-Distorted Pt Superstructures for Multifunctional Electrocatalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 5075-5082	11.5	6
204	A Top-Down Strategy to Realize Surface Reconstruction of Small-Sized Platinum-Based Nanoparticles for Selective Hydrogenation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 17570-17574	3.6	
203	Decoding of crystal synthesis of fcc-hcp reversible transition for metals: theoretical mechanistic study from facet control to phase transition engineering. <i>Nano Energy</i> , <b>2021</b> , 85, 106026	17.1	2
202	Oxygen-Incorporated NiMoP Nanotube Arrays as Efficient Bifunctional Electrocatalysts For Urea-Assisted Energy-Saving Hydrogen Production in Alkaline Electrolyte. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104951	15.6	39
201	A Top-Down Strategy to Realize Surface Reconstruction of Small-Sized Platinum-Based Nanoparticles for Selective Hydrogenation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17430-17434	16.4	3
200	Exposed facet-controlled N electroreduction on distinct PtFe nanostructures of nanocubes, nanorods and nanowires. <i>National Science Review</i> , <b>2021</b> , 8, nwaa088	10.8	13
199	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006939	15.6	35
198	Selective Ethanol Oxidation Reaction at the Rh-SnO Interface. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005767	24	26
197	Two-Dimensional Metal-Organic Frameworks-Based Electrocatalysts for Oxygen Evolution and Oxygen Reduction Reactions. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000067	1.6	12
196	A wide range of CO : H <sub>2</sub> syngas ratios enabled by a tellurization-induced amorphous telluride-palladium surface. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18349-18355	13	3
195	Grain-Boundary-Engineered LaCuO Perovskite Nanobamboos for Efficient CO Reduction Reaction. <i>Nano Letters</i> , <b>2021</b> , 21, 980-987	11.5	18
194	High-performance diluted nickel nanoclusters decorating ruthenium nanowires for pH-universal overall water splitting. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3194-3202	35.4	19
193	A Large-Scalable, Surfactant-Free, and Ultrastable Ru-Doped PtCo Oxygen Reduction Catalyst. <i>Nano Letters</i> , <b>2021</b> , 21, 6625-6632	11.5	10
192	Supramolecular Anchoring Strategy for Facile Production of Ruthenium Nanoparticles Embedded in N-Doped Mesoporous Carbon Nanospheres for Efficient Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 32997-33005	9.5	1
191	Atomically Isolated Rh Sites within Highly Branched Rh Sb Nanostructures Enhance Bifunctional Hydrogen Electrocatalysis. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105049	24	8

190	Compressive Strain in N-Doped Palladium/Amorphous-Cobalt (II) Interface Facilitates Alkaline Hydrogen Evolution. <i>Small</i> , <b>2021</b> , 17, e2103798	11	2
189	Efficient Direct H <sub>2</sub> O <sub>2</sub> Synthesis Enabled by PdPb Nanorings via Inhibiting the O-O Bond Cleavage in O <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> . <i>ACS Catalysis</i> , <b>2021</b> , 11, 1106-1118	13.1	18
188	Water Splitting: High-Index Faceted RuCo Nanoscrews for Water Electrosplitting (Adv. Energy Mater. 47/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070191	21.8	
187	High-Index Faceted RuCo Nanoscrews for Water Electrosplitting. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002860	21.8	27
186	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N Fixation of Metal Nanocrystals. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001267	24	58
185	Partially Pyrolyzed Binary Metal-Organic Framework Nanosheets for Efficient Electrochemical Hydrogen Peroxide Synthesis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14479-14483	3.6	10
184	Partially Pyrolyzed Binary Metal-Organic Framework Nanosheets for Efficient Electrochemical Hydrogen Peroxide Synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14373-14377	16.4	56
183	Cation Exchange Strategy to Single-Atom Noble-Metal Doped CuO Nanowire Arrays with Ultralow Overpotential for H <sub>2</sub> O Splitting. <i>Nano Letters</i> , <b>2020</b> , 20, 5482-5489	11.5	45
182	Promoting Alkaline Hydrogen Evolution Catalysis on P-Decorated, Ni-Segregated PtNiP Nanowires via a Synergetic Cascade Route. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3144-3149	9.6	19
181	Editorial for special issue on metal-based materials for energy catalysis. <i>Rare Metals</i> , <b>2020</b> , 39, 748-750	5.5	4
180	Strong synergy in a lichen-like RuCu nanosheet boosts the direct methane oxidation to methanol. <i>Nano Energy</i> , <b>2020</b> , 71, 104566	17.1	25
179	Strain modulation of phase transformation of noble metal nanomaterials. <i>Information Materials</i> , <b>2020</b> , 2, 715-734	23.1	21
178	Surface-Regulated Rhodium-Antimony Nanorods for Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8066-8071	16.4	32
177	Surface-Regulated Rhodium-Antimony Nanorods for Nitrogen Fixation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 8143-8148	3.6	7
176	Spin Regulation on 2D Pd-Fe-Pt Nanomeshes Promotes Fuel Electrooxidations. <i>Nano Letters</i> , <b>2020</b> , 20, 1967-1973	11.5	38
175	Structurally Ordered Pt <sub>3</sub> Sn Nanofibers with Highlighted Antipoisoning Property as Efficient Ethanol Oxidation Electrocatalysts. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3455-3461	13.1	42
174	Advanced water splitting electrocatalysts via the design of multicomponent heterostructures. <i>Dalton Transactions</i> , <b>2020</b> , 49, 2761-2765	4.3	7
173	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1109-1143	58.5	96

172	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. <i>National Science Review</i> , <b>2020</b> , 7, 1340-1348	10.8	27
171	Exploring Bi Te Nanoplates as Versatile Catalysts for Electrochemical Reduction of Small Molecules. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906477	24	37
170	Adsorbing and Activating N <sub>2</sub> on Heterogeneous AuBe <sub>3</sub> O <sub>4</sub> Nanoparticles for N <sub>2</sub> Fixation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906579	15.6	75
169	Surface oxygen-mediated ultrathin PtRuM (Ni, Fe, and Co) nanowires boosting methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2323-2330	13	32
168	On-Demand, Ultrasensitive Hydrogenation System Enabled by Precisely Modulated Pd-Cd Nanocubes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 962-972	16.4	24
167	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2671-2675	3.6	7
166	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2649-2653	16.4	68
165	Te-Doped Pd Nanocrystal for Electrochemical Urea Production by Efficiently Coupling Carbon Dioxide Reduction with Nitrite Reduction. <i>Nano Letters</i> , <b>2020</b> , 20, 8282-8289	11.5	51
164	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. <i>Science Advances</i> , <b>2020</b> , 6, eaba2731	17.5	27
163	Surface engineering of RhOOH nanosheets promotes hydrogen evolution in alkaline. <i>Nano Energy</i> , <b>2020</b> , 78, 105224	17.1	12
162	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , <b>2020</b> , 11, 5437	17.4	86
161	Closest Packing Polymorphism Interfaced Metastable Transition Metal for Efficient Hydrogen Evolution. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002857	24	28
160	Selective Surface Reconstruction of a Defective Iridium-Based Catalyst for High-Efficiency Water Splitting. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004375	15.6	49
159	Single-Atom In-Doped Subnanometer Pt Nanowires for Simultaneous Hydrogen Generation and Biomass Upgrading. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004310	15.6	26
158	Atomic PdAu Interlayer Sandwiched into Pd/Pt Core/Shell Nanowires Achieves Superstable Oxygen Reduction Catalysis. <i>ACS Nano</i> , <b>2020</b> , 14, 11570-11578	16.7	37
157	Metallic nanostructures with low dimensionality for electrochemical water splitting. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 3072-3106	58.5	238
156	A General Strategy to Glassy M-Te (M = Ru, Rh, Ir) Porous Nanorods for Efficient Electrochemical N Fixation. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907112	24	66
155	Se-Incorporation Stabilizes and Activates Metastable MoS for Efficient and Cost-Effective Water Gas Shift Reaction. <i>ACS Nano</i> , <b>2019</b> , 13, 11303-11309	16.7	14

154	Defect Engineering of Palladium-Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. <i>Nano Letters</i> , <b>2019</b> , 19, 6894-6903	11.5	30
153	Rational design of ordered Pd-Pb nanocubes as highly active, selective and durable catalysts for solvent-free benzyl alcohol oxidation. <i>Nanoscale</i> , <b>2019</b> , 11, 5145-5150	7.7	12
152	pH-Universal Water Splitting Catalyst: Ru-Ni Nanosheet Assemblies. <i>IScience</i> , <b>2019</b> , 11, 492-504	6.1	67
151	Enhancing catalytic H <sub>2</sub> generation by surface electronic tuning of systematically controlled Pt-Pb nanocrystals. <i>Nano Research</i> , <b>2019</b> , 12, 2335-2340	10	1
150	Activating and Converting CH <sub>4</sub> to CH <sub>3</sub> OH via the CuPdO <sub>2</sub> /CuO Nanointerface. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6938-6944	13.1	22
149	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10677-10683	16.4	309
148	All-inorganic SrSnO <sub>3</sub> perovskite nanowires for efficient CO <sub>2</sub> electroreduction. <i>Nano Energy</i> , <b>2019</b> , 62, 861-868	17.1	17
147	Subnanometer PtRh Nanowire with Alleviated Poisoning Effect and Enhanced C-C Bond Cleavage for Ethanol Oxidation Electrocatalysis. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6607-6612	13.1	85
146	Rationally engineered active sites for efficient and durable hydrogen generation. <i>Nature Communications</i> , <b>2019</b> , 10, 2281	17.4	34
145	Co-Modified MoS <sub>2</sub> Hybrids as Superior Bifunctional Electrocatalysts for Water Splitting Reactions: Integrating Multiple Active Components in One. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900372	4.6	11
144	Large-Scale, Bottom-Up Synthesis of Binary Metal-Organic Framework Nanosheets for Efficient Water Oxidation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7125-7130	3.6	56
143	Large-Scale, Bottom-Up Synthesis of Binary Metal-Organic Framework Nanosheets for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7051-7056	16.4	229
142	An On-Demand, Selective Hydrogenation Catalysis over PtFe Nanocatalysts under Ambient Condition. <i>ChemCatChem</i> , <b>2019</b> , 11, 2265-2269	5.2	9
141	Phase Modulating of Cu-Ni Nanowires Enables Active and Stable Electrocatalysts for the Methanol Oxidation Reaction. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 7218-7224	4.8	11
140	Advanced Catalysts Derived from Composition-Segregated Platinum-Nickel Nanostructures: New Opportunities and Challenges. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808161	15.6	30
139	Platinum Group Nanowires for Efficient Electrocatalysis. <i>Small Methods</i> , <b>2019</b> , 3, 1800545	12.8	34
138	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805833	24	132
137	Phase and structure modulating of bimetallic CuSn nanowires boosts electrocatalytic conversion of CO <sub>2</sub> . <i>Nano Energy</i> , <b>2019</b> , 59, 138-145	17.1	49



136	Transition metal-doped ultrathin RuO <sub>2</sub> networked nanowires for efficient overall water splitting across a broad pH range. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6411-6416	13	62
135	Advanced engineering of core/shell nanostructures for electrochemical carbon dioxide reduction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20478-20493	13	19
134	Low Dimensional Platinum-Based Bimetallic Nanostructures for Advanced Catalysis. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 3384-3396	24.3	59
133	A hierarchically-assembled Fe-MoS/NiS/nickel foam electrocatalyst for efficient water splitting. <i>Dalton Transactions</i> , <b>2019</b> , 48, 12186-12192	4.3	20
132	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13983-13988	16.4	162
131	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14121-14126	3.6	21
130	Amorphous Oxide Nanostructures for Advanced Electrocatalysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 26, 3943	4.8	43
129	Platinum Porous Nanosheets with High Surface Distortion and Pt Utilization for Enhanced Oxygen Reduction Catalysis. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904429	15.6	46
128	Highly Active and Selective Electrocatalytic CO Conversion Enabled by Core/Shell Ag/(Amorphous-Sn(IV)) Nanostructures with Tunable Shell Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39722-39727	9.5	13
127	Oxygen Vacancies in Amorphous InO <sub>x</sub> Nanoribbons Enhance CO <sub>2</sub> Adsorption and Activation for CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5665-5669	3.6	28
126	Oxygen Vacancies in Amorphous InO Nanoribbons Enhance CO Adsorption and Activation for CO Electroreduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5609-5613	16.4	162
125	Fe-Doped BiOCl Nanosheets with Light-Switchable Oxygen Vacancies for Photocatalytic Nitrogen Fixation. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8394-8398	6.1	45
124	Amorphization activated ruthenium-tellurium nanorods for efficient water splitting. <i>Nature Communications</i> , <b>2019</b> , 10, 5692	17.4	130
123	Highly porous Pt-Pb nanostructures as active and ultrastable catalysts for polyhydric alcohol electrooxidations. <i>Science China Materials</i> , <b>2019</b> , 62, 341-350	7.1	14
122	Double Perovskite LaFe Ni O Nanorods Enable Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2316-2320	16.4	112
121	Trimetallic Molybdate Nanobelts as Active and Stable Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 1013-1018	13.1	45
120	Opportunities and Challenges of Interface Engineering in Bimetallic Nanostructure for Enhanced Electrocatalysis. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806419	15.6	129
119	Superior overall water splitting electrocatalysis in acidic conditions enabled by bimetallic Ir-Ag nanotubes. <i>Nano Energy</i> , <b>2019</b> , 56, 330-337	17.1	74

118	Double Perovskite LaFe <sub>x</sub> Ni <sub>1-x</sub> O <sub>3</sub> Nanorods Enable Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2338-2342	3.6	28
117	Fully Tensile Strained PdPb/Pd Tetragonal Nanosheets Enhance Oxygen Reduction Catalysis. <i>Nano Letters</i> , <b>2019</b> , 19, 1336-1342	11.5	74
116	P,Se-Codoped MoS <sub>2</sub> Nanosheets as Accelerated Electrocatalysts for Hydrogen Evolution. <i>ChemCatChem</i> , <b>2019</b> , 11, 689-692	5.2	43
115	A Strongly Coupled Ultrasmall Pt <sub>3</sub> Co Nanoparticle-Ultrathin Co(OH) <sub>2</sub> Nanosheet Architecture Enhances Selective Hydrogenation of $\alpha$ -Unsaturated Aldehydes. <i>ACS Catalysis</i> , <b>2019</b> , 9, 154-159	13.1	40
114	Efficient catalytic hydrogen generation by intermetallic platinum-lead nanostructures with highly tunable porous feature. <i>Science Bulletin</i> , <b>2019</b> , 64, 36-43	10.6	12
113	Ordered PtPb/Pt Core/Shell Nanodisks as Highly Active, Selective, and Stable Catalysts for Methanol Reformation to H <sub>2</sub> . <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703430	21.8	16
112	Intrinsic energy conversions for photon-generation in piezo-phototronic materials: A case study on alkaline niobates. <i>Nano Energy</i> , <b>2018</b> , 47, 150-171	17.1	26
111	The Design of Water Oxidation Electrocatalysts from Nanoscale Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15143-15155	4.8	46
110	Porous Pt-Ni Nanowires within In Situ Generated Metal-Organic Frameworks for Highly Chemoselective Cinnamaldehyde Hydrogenation. <i>Small</i> , <b>2018</b> , 14, e1704318	11	41
109	Three-Dimensional Pd <sub>3</sub> Pb Nanosheet Assemblies: High-Performance Non-Pt Electrocatalysts for Bifunctional Fuel Cell Reactions. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4569-4575	13.1	78
108	Ruthenium-nickel sandwiched nanoplates for efficient water splitting electrocatalysis. <i>Nano Energy</i> , <b>2018</b> , 47, 1-7	17.1	82
107	Hydroxide-Membrane-Coated Pt <sub>3</sub> Ni Nanowires as Highly Efficient Catalysts for Selective Hydrogenation Reaction. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705918	15.6	29
106	Cobalt-molybdenum nanosheet arrays as highly efficient and stable earth-abundant electrocatalysts for overall water splitting. <i>Nano Energy</i> , <b>2018</b> , 45, 448-455	17.1	181
105	Highly Networked Platinum <sub>3</sub> Ir Nanowires as Highly Active and Selective Catalysts towards the Semihydrogenation of Unsaturated Aldehydes. <i>ChemCatChem</i> , <b>2018</b> , 10, 3214-3218	5.2	14
104	Barrier-free Interface Electron Transfer on PtFe-Fe <sub>2</sub> C Janus-like Nanoparticles Boosts Oxygen Catalysis. <i>CheM</i> , <b>2018</b> , 4, 1153-1166	16.2	56
103	Hollow Pd <sub>5</sub> Sn Nanocrystals for Efficient Direct H <sub>2</sub> O <sub>2</sub> Synthesis: The Critical Role of Sn on Structure Evolution and Catalytic Performance. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3418-3423	13.1	60
102	Catalytic Hydrogen Production by Janus CuAg Nanostructures. <i>ChemNanoMat</i> , <b>2018</b> , 4, 477-481	3.5	8
101	Promoting the Direct H <sub>2</sub> O Generation Catalysis by Using Hollow Pd-Sn Intermetallic Nanoparticles. <i>Small</i> , <b>2018</b> , 14, e1703990	11	17



100	Surface-modulated palladium-nickel icosahedra as high-performance non-platinum oxygen reduction electrocatalysts. <i>Science Advances</i> , <b>2018</b> , 4, eaap8817	14.3	72
99	Concavity Tuning of Intermetallic Pd <sub>3</sub> B Nanocubes for Selective Semihydrogenation Catalysis. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6338-6345	9.6	17
98	A Universal Strategy to Metal Wavy Nanowires for Efficient Electrochemical Water Splitting at pH-Universal Conditions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803722	15.6	49
97	Partially Oxidized Bimetallic Nanocrystals as Efficient Non-Noble Metal Alcohol Electrooxidation Catalysts. <i>ChemCatChem</i> , <b>2018</b> , 10, 3647-3652	5.2	1
96	Universal Strategy for Ultrathin Pt-M (M = Fe, Co, Ni) Nanowires for Efficient Catalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22257-22263	9.5	19
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92	Nanoscale Trimetallic Metal-Organic Frameworks Enable Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1888-1892	16.4	398
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90	Phase and structure engineering of copper tin heterostructures for efficient electrochemical carbon dioxide reduction. <i>Nature Communications</i> , <b>2018</b> , 9, 4933	17.4	90
89	Co O /Fe Co P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803551	24	115
88	Highly Efficient Acidic Oxygen Evolution Electrocatalysis Enabled by Porous Ir <sub>2</sub> U Nanocrystals with Three-Dimensional Electrocatalytic Surfaces. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8571-8578	9.6	53
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86	Transition Metal-Doped Edge-Terminated MoS <sub>2</sub> Superstructures as Efficient Catalysts for H <sub>2</sub> Production. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1801370	4.6	6
85	Highly Active, Selective, and Stable Direct HO Generation by Monodispersive Pd-Ag Nanoalloy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21291-21296	9.5	25
84	Enhancing Oxygen Evolution Electrocatalysis via the Intimate Hydroxide-Oxide Interface. <i>ACS Nano</i> , <b>2018</b> , 12, 6245-6251	16.7	96
83	The Advanced Designs of High-Performance Platinum-Based Electrocatalysts: Recent Progresses and Challenges. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800486	4.6	35

82	The screened pseudo-charge repulsive potential in perturbed orbitals for band calculations by DFT+U. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 8008-8025	3.6	37
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80	Efficient oxygen reduction catalysis by subnanometer Pt alloy nanowires. <i>Science Advances</i> , <b>2017</b> , 3, e1601705	17.05	252
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76	Phase and Composition Tuning of 1D Platinum-Nickel Nanostructures for Highly Efficient Electrocatalysis. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700830	15.6	67
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4	Electronic Coupling of Single Atom and FePS <sub>3</sub> Boosts Water Electrolysis. <i>Energy and Environmental Materials</i> ,	13	2
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