

Thomas F Jaramillo

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.

252
papers

60,701
citations

87
h-index

246
g-index

284
ext. papers

71,578
ext. citations

12.3
avg, IF

8.21
L-index

#	Paper	IF	Citations
252	Demonstration of photoreactor platform for on-sun unassisted photoelectrochemical hydrogen generation with tandem IIIIV photoelectrodes. <i>Chem Catalysis</i> , 2022 , 2, 195-209		0
251	Characterization of a Dynamic Y2Ir2O7 Catalyst during the Oxygen Evolution Reaction in Acid. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1751-1760	3.8	2
250	Improving intrinsic oxygen reduction activity and stability: Atomic layer deposition preparation of platinum-titanium alloy catalysts. <i>Applied Catalysis B: Environmental</i> , 2022 , 300, 120741	21.8	0
249	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO2 electrolyzers. <i>Nature Energy</i> , 2022 , 7, 130-143	62.3	33
248	In Situ Studies of the Formation of MoP Catalysts and Their Structure under Reaction Conditions for Higher Alcohol Synthesis: The Role of Promoters and Mesoporous Supports. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5575-5583	3.8	1
247	Enhancing the connection between computation and experiments in electrocatalysis. <i>Nature Catalysis</i> , 2022 , 5, 374-381	36.5	4
246	Designing a Zn-Ag Catalyst Matrix and Electrolyzer System for CO Conversion to CO and Beyond. <i>Advanced Materials</i> , 2021 , e2103963	24	6
245	Oxidation State and Surface Reconstruction of Cu under CO Reduction Conditions from X-ray Characterization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 588-592	16.4	62
244	A refraction correction for buried interfaces applied to in situ grazing-incidence X-ray diffraction studies on Pd electrodes. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 919-923	2.4	1
243	Isolating the Electrocatalytic Activity of a Confined NiFe Motif within Zirconium Phosphate. <i>Advanced Energy Materials</i> , 2021 , 11, 2003545	21.8	8
242	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO Conversion with Carbon-Based Materials. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17472-17480	16.4	5
241	Direct Integration of Strained-Pt Catalysts into Proton-Exchange-Membrane Fuel Cells with Atomic Layer Deposition. <i>Advanced Materials</i> , 2021 , 33, e2007885	24	4
240	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO2 Conversion with Carbon-Based Materials. <i>Angewandte Chemie</i> , 2021 , 133, 17613-17621	3.6	1
239	Understanding Degradation Mechanisms in SrIrO3 Oxygen Evolution Electrocatalysts: Chemical and Structural Microscopy at the Nanoscale. <i>Advanced Functional Materials</i> , 2021 , 31, 2101542	15.6	4
238	Dynamics and Hysteresis of Hydrogen Intercalation and Deintercalation in Palladium Electrodes: A Multimodal In Situ X-ray Diffraction, Coulometry, and Computational Study. <i>Chemistry of Materials</i> , 2021 , 33, 5872-5884	9.6	2
237	Prospects for In Situ TEM on Electrocatalyst Materials for Sustainable Energy Technologies. <i>Microscopy and Microanalysis</i> , 2021 , 27, 44-45	0.5	
236	Probing the Effects of Acid Electrolyte Anions on Electrocatalyst Activity and Selectivity for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2021 , 8, 2467-2478	4.3	4

235	CO as a Probe Molecule to Study Surface Adsorbates during Electrochemical Oxidation of Propene. <i>ChemElectroChem</i> , 2021 , 8, 250-256	4.3	4
234	Tungsten oxide-coated copper gallium selenide sustains long-term solar hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 384-390	5.8	3
233	Cobalt porphyrin intercalation into zirconium phosphate layers for electrochemical water oxidation. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 430-437	5.8	3
232	Advanced manufacturing for electrosynthesis of fuels and chemicals from CO ₂ . <i>Energy and Environmental Science</i> , 2021 , 14, 3064-3074	35.4	17
231	Phosphate-passivated mordenite for tandem-catalytic conversion of syngas to ethanol or acetic acid. <i>Journal of Catalysis</i> , 2021 , 399, 132-141	7.3	1
230	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO ₂ to CO. <i>Chem Catalysis</i> , 2021 , 1, 663-680		11
229	Guiding the Catalytic Properties of Copper for Electrochemical CO Reduction by Metal Atom Decoration. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
228	Electrolyte-Guided Design of Electroreductive CO Coupling on Copper Surfaces. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8201-8210	6.1	3
227	Chemical Modifications of Ag Catalyst Surfaces with Imidazolium Ionomers Modulate H Evolution Rates during Electrochemical CO Reduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14712-14725	16.4	5
226	Understanding Selectivity in CO ₂ Hydrogenation to Methanol for MoP Nanoparticle Catalysts Using In Situ Techniques. <i>Catalysts</i> , 2021 , 11, 143	4	5
225	Bottom-Up Fabrication of Oxygen Reduction Electrodes with Atomic Layer Deposition for High-Power-Density PEMFCs. <i>Cell Reports Physical Science</i> , 2021 , 2, 100297	6.1	4
224	Tuning the electronic structure of Ag-Pd alloys to enhance performance for alkaline oxygen reduction. <i>Nature Communications</i> , 2021 , 12, 620	17.4	32
223	Identifying and Tuning the In Situ Oxygen-Rich Surface of Molybdenum Nitride Electrocatalysts for Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12433-12446	6.1	8
222	High Resolution Transmission Electron Microscopy Study on the Degradation of IrO _x /SrIrO ₃ as an Oxygen Evolution Catalyst. <i>Microscopy and Microanalysis</i> , 2020 , 26, 3168-3169	0.5	2
221	Low-pressure methanol synthesis from CO ₂ over metal-promoted Ni-Ga intermetallic catalysts. <i>Journal of CO₂ Utilization</i> , 2020 , 39, 101151	7.6	13
220	Nitride or Oxynitride? Elucidating the Composition-Activity Relationships in Molybdenum Nitride Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2020 , 32, 2946-2960	9.6	28
219	Water Splitting Electrocatalysis within Layered Inorganic Nanomaterials 2020 ,		3
218	Using Microenvironments to Control Reactivity in CO ₂ Electrocatalysis. <i>Joule</i> , 2020 , 4, 292-294	27.8	14

217	In Situ X-Ray Absorption Spectroscopy Disentangles the Roles of Copper and Silver in a Bimetallic Catalyst for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2020 , 32, 1819-1827	9.6	15
216	Electrolyte Engineering for Efficient Electrochemical Nitrate Reduction to Ammonia on a Titanium Electrode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2672-2681	8.3	88
215	A Spin Coating Method To Deposit Iridium-Based Catalysts onto Silicon for Water Oxidation Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5901-5908	9.5	6
214	Selective reduction of CO to acetaldehyde with CuAg electrocatalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12572-12575	11.5	43
213	A Combined Theory-Experiment Analysis of the Surface Species in Lithium-Mediated NH ₃ Electrosynthesis. <i>ChemElectroChem</i> , 2020 , 7, 1513-1513	4.3	0
212	A cyclic electrochemical strategy to produce acetylene from CO ₂ , CH ₄ , or alternative carbon sources. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2752-2759	5.8	5
211	Development of Reliable Methods and Protocols for Electrocatalytic N ₂ Reduction. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 2860-2860	0	
210	Use of in Situ Synchrotron Techniques to Probe the Oxidized Surface of Molybdenum Nitride Oxygen Reduction Electrocatalysis. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 3157-3157	0	
209	Ni ₅ Ga ₃ catalysts for CO ₂ reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118369	21.8	33
208	Understanding the Origin of Highly Selective CO ₂ Electroreduction to CO on Ni,N-doped Carbon Catalysts. <i>Angewandte Chemie</i> , 2020 , 132, 4072-4079	3.6	29
207	Understanding the Origin of Highly Selective CO Electroreduction to CO on Ni,N-doped Carbon Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4043-4050	16.4	85
206	A Combined Theory-Experiment Analysis of the Surface Species in Lithium-Mediated NH ₃ Electrosynthesis. <i>ChemElectroChem</i> , 2020 , 7, 1542-1549	4.3	34
205	Double layer charging driven carbon dioxide adsorption limits the rate of electrochemical carbon dioxide reduction on Gold. <i>Nature Communications</i> , 2020 , 11, 33	17.4	107
204	Morphology control of metal-modified zirconium phosphate support structures for the oxygen evolution reaction. <i>Dalton Transactions</i> , 2020 , 49, 3892-3900	4.3	12
203	Acidic Oxygen Evolution Reaction Activity/Stability Relationships in Ru-Based Pyrochlores. <i>ACS Catalysis</i> , 2020 , 10, 12182-12196	13.1	30
202	Readily Constructed Glass Piston Pump for Gas Recirculation. <i>ACS Omega</i> , 2020 , 5, 16455-16459	3.9	3
201	Modified atomic layer deposition of MoS ₂ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 060403	2.9	4
200	Nanosized Zirconium Porphyrinic Metal-Organic Frameworks that Catalyze the Oxygen Reduction Reaction in Acid. <i>Small Methods</i> , 2020 , 4, 2000085	12.8	10

199	Addressing the Stability Gap in Photoelectrochemistry: Molybdenum Disulfide Protective Catalysts for Tandem III ^V Unassisted Solar Water Splitting. <i>ACS Energy Letters</i> , 2020 , 5, 2631-2640	20.1	23
198	Two-Dimensional Conductive Ni-HAB as a Catalyst for the Electrochemical Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39074-39081	9.5	15
197	Direct Characterization of Atomically Dispersed Catalysts: Nitrogen-Coordinated Ni Sites in Carbon-Based Materials for CO ₂ Electroreduction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001836	21.8	20
196	Aqueous Electrochemical Reduction of Carbon Dioxide and Carbon Monoxide into Methanol with Cobalt Phthalocyanine. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16172-16176	16.4	81
195	Systematic Investigation of Iridium-Based Bimetallic Thin Film Catalysts for the Oxygen Evolution Reaction in Acidic Media. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34059-34066	9.5	34
194	Transition Metal Arsenide Catalysts for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24007-24012	3.8	4
193	Molybdenum Disulfide Catalytic Coatings via Atomic Layer Deposition for Solar Hydrogen Production from Copper Gallium Diselenide Photocathodes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1060-1066	6.1	15
192	Progress and Perspectives of Electrochemical CO Reduction on Copper in Aqueous Electrolyte. <i>Chemical Reviews</i> , 2019 , 119, 7610-7672	68.1	1244
191	Electrochemically converting carbon monoxide to liquid fuels by directing selectivity with electrode surface area. <i>Nature Catalysis</i> , 2019 , 2, 702-708	36.5	86
190	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. <i>Nature</i> , 2019 , 570, 504-508	50.4	617
189	A Versatile Method for Ammonia Detection in a Range of Relevant Electrolytes via Direct Nuclear Magnetic Resonance Techniques. <i>ACS Catalysis</i> , 2019 , 9, 5797-5802	13.1	54
188	Transition Metal-Modified Exfoliated Zirconium Phosphate as an Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3561-3567	6.1	12
187	What would it take for renewably powered electrosynthesis to displace petrochemical processes?. <i>Science</i> , 2019 , 364,	33.3	749
186	Influence of Atomic Surface Structure on the Activity of Ag for the Electrochemical Reduction of CO ₂ to CO. <i>ACS Catalysis</i> , 2019 , 9, 4006-4014	13.1	72
185	Revealing the Synergy between Oxide and Alloy Phases on the Performance of Bimetallic InPd Catalysts for CO ₂ Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2019 , 9, 3399-3412	13.1	105
184	Robust and biocompatible catalysts for efficient hydrogen-driven microbial electrosynthesis. <i>Communications Chemistry</i> , 2019 , 2,	6.3	46
183	Development of Molybdenum Phosphide Catalysts for Higher Alcohol Synthesis from Syngas by Exploiting Support and Promoter Effects. <i>Energy Technology</i> , 2019 , 7, 1801102	3.5	7
182	Transmission Electron Microscopy (TEM) Studies on Nickel and Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2072-2073	0.5	1

181	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26863-26871	9.5	47
180	Crystalline Strontium Iridate Particle Catalysts for Enhanced Oxygen Evolution in Acid. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5490-5498	6.1	36
179	Electro-Oxidation of Methane on Platinum under Ambient Conditions. <i>ACS Catalysis</i> , 2019 , 9, 7578-7587	13.1	32
178	Interfacial engineering of gallium indium phosphide photoelectrodes for hydrogen evolution with precious metal and non-precious metal based catalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16821-16832	13.1	15
177	Surface Engineering of 3D Gas Diffusion Electrodes for High-Performance H ₂ Production with Nonprecious Metal Catalysts. <i>Advanced Energy Materials</i> , 2019 , 9, 1901824	21.8	7
176	Aqueous Electrochemical Reduction of Carbon Dioxide and Carbon Monoxide into Methanol with Cobalt Phthalocyanine. <i>Angewandte Chemie</i> , 2019 , 131, 16318-16322	3.6	13
175	Absence of Oxidized Phases in Cu under CO Reduction Conditions. <i>ACS Energy Letters</i> , 2019 , 4, 803-804	20.1	64
174	Electrochemical flow cell enabling operando probing of electrocatalyst surfaces by X-ray spectroscopy and diffraction. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5402-5408	3.6	23
173	The Materials Research Platform: Defining the Requirements from User Stories. <i>Matter</i> , 2019 , 1, 1433-1437	4.87	13
172	A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane electrolyser. <i>Nature Nanotechnology</i> , 2019 , 14, 1071-1074	28.7	87
171	pH effects on the electrochemical reduction of CO towards C products on stepped copper. <i>Nature Communications</i> , 2019 , 10, 32	17.4	207
170	Nanostructuring Strategies To Increase the Photoelectrochemical Water Splitting Activity of Silicon Photocathodes. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6-11	5.6	14
169	Gas-Diffusion Electrodes for Carbon Dioxide Reduction: A New Paradigm. <i>ACS Energy Letters</i> , 2019 , 4, 317-324	20.1	238
168	Trends in the Catalytic Activity of Hydrogen Evolution during CO ₂ Electroreduction on Transition Metals. <i>ACS Catalysis</i> , 2018 , 8, 3035-3040	13.1	67
167	Cyclic-Voltammetry-Based Solid-State Gas Sensor for Methane and Other VOC Detection. <i>Analytical Chemistry</i> , 2018 , 90, 6102-6108	7.8	23
166	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. <i>Nature Catalysis</i> , 2018 , 1, 156-162	36.5	632
165	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 311-317	8.3	153
164	Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition. <i>Nature Catalysis</i> , 2018 , 1, 624-630	36.5	40

163	Electrochemical Carbon Monoxide Reduction on Polycrystalline Copper: Effects of Potential, Pressure, and pH on Selectivity toward Multicarbon and Oxygenated Products. <i>ACS Catalysis</i> , 2018 , 8, 7445-7454	13.1	175
162	Copper Silver Thin Films with Metastable Miscibility for Oxygen Reduction Electrocatalysis in Alkaline Electrolytes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1990-1999	6.1	21
161	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO ₂ . <i>Angewandte Chemie</i> , 2018 , 130, 15265-15270	3.6	12
160	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15045-15050	16.4	46
159	Rapid flame doping of Co to WS ₂ for efficient hydrogen evolution. <i>Energy and Environmental Science</i> , 2018 , 11, 2270-2277	35.4	45
158	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7851-7859	16.4	184
157	Guiding Electrochemical Carbon Dioxide Reduction toward Carbonyls Using Copper Silver Thin Films with Interphase Miscibility. <i>ACS Energy Letters</i> , 2018 , 3, 2947-2955	20.1	47
156	Improved CO ₂ reduction activity towards C ₂ + alcohols on a tandem gold on copper electrocatalyst. <i>Nature Catalysis</i> , 2018 , 1, 764-771	36.5	291
155	Engineering Ru@Pt Core-Shell Catalysts for Enhanced Electrochemical Oxygen Reduction Mass Activity and Stability. <i>Nanomaterials</i> , 2018 , 8,	5.4	25
154	The Predominance of Hydrogen Evolution on Transition Metal Sulfides and Phosphides under CO ₂ Reduction Conditions: An Experimental and Theoretical Study. <i>ACS Energy Letters</i> , 2018 , 3, 1450-1457	20.1	48
153	Standards and Protocols for Data Acquisition and Reporting for Studies of the Electrochemical Reduction of Carbon Dioxide. <i>ACS Catalysis</i> , 2018 , 8, 6560-6570	13.1	160
152	A Universal Platform for Fabricating Organic Electrochemical Devices. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800090	6.4	31
151	Combining theory and experiment in electrocatalysis: Insights into materials design. <i>Science</i> , 2017 , 355,	33.3	5239
150	Operando investigation of Au-MnO _x thin films with improved activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 230, 22-28	6.7	32
149	Carbon Dioxide Electroreduction using a SilverZinc Alloy. <i>Energy Technology</i> , 2017 , 5, 955-961	3.5	34
148	Development of a reactor with carbon catalysts for modular-scale, low-cost electrochemical generation of H ₂ O ₂ . <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 239-245	4.9	100
147	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. <i>Nano Research</i> , 2017 , 10, 1163-1177	10	50
146	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. <i>ACS Catalysis</i> , 2017 , 7, 4372-4380	13.1	87

145	Understanding Selectivity for the Electrochemical Reduction of Carbon Dioxide to Formic Acid and Carbon Monoxide on Metal Electrodes. <i>ACS Catalysis</i> , 2017 , 7, 4822-4827	13.1	402
144	Electrochemical CO reduction on Au surfaces: mechanistic aspects regarding the formation of major and minor products. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15856-15863	3.6	89
143	Engineering Cu surfaces for the electrocatalytic conversion of CO: Controlling selectivity toward oxygenates and hydrocarbons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5918-5923	11.5	215
142	Top-down fabrication of fluorine-doped tin oxide nanopillar substrates for solar water splitting. <i>RSC Advances</i> , 2017 , 7, 28350-28357	3.7	6
141	Electrochemical Ammonia Synthesis—the Selectivity Challenge. <i>ACS Catalysis</i> , 2017 , 7, 706-709	13.1	442
140	Active and Stable [email-protected] Core-Shell Catalysts for Electrochemical Oxygen Reduction. <i>ACS Energy Letters</i> , 2017 , 2, 244-249	20.1	52
139	Building upon the Koutecky-Levich Equation for Evaluation of Next-Generation Oxygen Reduction Reaction Catalysts. <i>Electrochimica Acta</i> , 2017 , 255, 99-108	6.7	35
138	Effects of Ta ₃ N ₅ Morphology and Composition on the Performance of Si-Ta ₃ N ₅ Photoanodes. <i>Solar Rrl</i> , 2017 , 1, 1700121	7.1	8
137	Systematic Structure-Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. <i>ACS Catalysis</i> , 2017 , 7, 7810-7821	13.1	110
136	Core-Shell Au@Metal-Oxide Nanoparticle Electrocatalysts for Enhanced Oxygen Evolution. <i>Nano Letters</i> , 2017 , 17, 6040-6046	11.5	104
135	Understanding activity trends in electrochemical water oxidation to form hydrogen peroxide. <i>Nature Communications</i> , 2017 , 8, 701	17.4	193
134	Highly Stable Molybdenum Disulfide Protected Silicon Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36792-36798	9.5	60
133	Design and Fabrication of a Precious Metal-Free Tandem Core-Shell p+n Si/W-Doped BiVO ₄ Photoanode for Unassisted Water Splitting. <i>Advanced Energy Materials</i> , 2017 , 7, 1701515	21.8	54
132	Investigating Catalyst-Support Interactions To Improve the Hydrogen Evolution Reaction Activity of Thiomolybdate [Mo ₃ S ₁₃] ₂ -Nanoclusters. <i>ACS Catalysis</i> , 2017 , 7, 7126-7130	13.1	55
131	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 5399-5409	13.1	88
130	Mesoporous Ruthenium/Ruthenium Oxide Thin Films: Active Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2017 , 4, 2480-2485	4.3	30
129	Promoter Effects of Alkali Metal Cations on the Electrochemical Reduction of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11277-11287	16.4	381
128	Machine-Learning Methods Enable Exhaustive Searches for Active Bimetallic Facets and Reveal Active Site Motifs for CO ₂ Reduction. <i>ACS Catalysis</i> , 2017 , 7, 6600-6608	13.1	224

127	Electrochemical CO Reduction over Compressively Strained CuAg Surface Alloys with Enhanced Multi-Carbon Oxygenate Selectivity. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15848-15857	16.4	331
126	Impact of Nanostructuring on the Photoelectrochemical Performance of Si/Ta ₃ N ₅ Nanowire Photoanodes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27295-27302	3.8	8
125	Understanding the Influence of [EMIM]Cl on the Suppression of the Hydrogen Evolution Reaction on Transition Metal Electrodes. <i>Langmuir</i> , 2017 , 33, 9464-9471	4	36
124	Ammonia synthesis from N ₂ and H ₂ O using a lithium cycling electrification strategy at atmospheric pressure. <i>Energy and Environmental Science</i> , 2017 , 10, 1621-1630	35.4	236
123	Transition Metal-Modified Zirconium Phosphate Electrocatalysts for the Oxygen Evolution Reaction. <i>Catalysts</i> , 2017 , 7, 132	4	25
122	Polyol Synthesis of Cobalt-Copper Alloy Catalysts for Higher Alcohol Synthesis from Syngas. <i>Catalysis Letters</i> , 2017 , 147, 2352-2359	2.8	6
121	Materials for solar fuels and chemicals. <i>Nature Materials</i> , 2016 , 16, 70-81	27	846
120	A highly active and stable IrO _x /SrIrO ₃ catalyst for the oxygen evolution reaction. <i>Science</i> , 2016 , 353, 1011-1014	33.3	1094
119	Tandem Core-Shell Si-TaN Photoanodes for Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2016 , 16, 7565-7572	11.5	86
118	Gold-supported cerium-doped NiO _x catalysts for water oxidation. <i>Nature Energy</i> , 2016 , 1,	62.3	366
117	Solar water splitting by photovoltaic-electrolysis with a solar-to-hydrogen efficiency over 30. <i>Nature Communications</i> , 2016 , 7, 13237	17.4	407
116	Elucidating the electronic structure of supported gold nanoparticles and its relevance to catalysis by means of hard X-ray photoelectron spectroscopy. <i>Surface Science</i> , 2016 , 650, 24-33	1.8	14
115	Tuning Composition and Activity of Cobalt Titanium Oxide Catalysts for the Oxygen Evolution Reaction. <i>Electrochimica Acta</i> , 2016 , 193, 240-245	6.7	18
114	Benchmarking nanoparticulate metal oxide electrocatalysts for the alkaline water oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3068-3076	13	344
113	Chemical and Phase Evolution of Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production. <i>ACS Nano</i> , 2016 , 10, 624-32	16.7	86
112	Band Edge Engineering of Oxide Photoanodes for Photoelectrochemical Water Splitting: Integration of Subsurface Dipoles with Atomic-Scale Control. <i>Advanced Energy Materials</i> , 2016 , 6, 1502154	21.8	37
111	Improving the Photoelectrochemical Performance of Hematite by Employing a High Surface Area Scaffold and Engineering Solid-Solid Interfaces. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500626	4.6	14
110	Engineering Cobalt Phosphide (CoP) Thin Film Catalysts for Enhanced Hydrogen Evolution Activity on Silicon Photocathodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1501758	21.8	115

109	Mesoporous platinum nickel thin films with double gyroid morphology for the oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 29, 243-248	17.1	21
108	Molybdenum Disulfide as a Protection Layer and Catalyst for Gallium Indium Phosphide Solar Water Splitting Photocathodes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2044-9	6.4	64
107	Microfabricated electrochemical gas sensor. <i>Micro and Nano Letters</i> , 2016 , 11, 798-802	0.9	5
106	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Energy Letters</i> , 2016 , 1, 589-594	20.1	752
105	Simultaneous detection of electronic structure changes from two elements of a bifunctional catalyst using wavelength-dispersive X-ray emission spectroscopy and in situ electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8901-12	3.6	31
104	Applications of ALD MnO to electrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14003-11	3.6	40
103	Enhancement Effect of Noble Metals on Manganese Oxide for the Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4178-83	6.4	79
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