

Thomas F Jaramillo

List of Publications by Citations

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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	Combining theory and experiment in electrocatalysis: Insights into materials design. <i>Science</i> , 2017 , 355,	33.3	5239
251	Identification of active edge sites for electrochemical H ₂ evolution from MoS ₂ nanocatalysts. <i>Science</i> , 2007 , 317, 100-2	33.3	4319
250	Benchmarking heterogeneous electrocatalysts for the oxygen evolution reaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16977-87	16.4	3926
249	Computational high-throughput screening of electrocatalytic materials for hydrogen evolution. <i>Nature Materials</i> , 2006 , 5, 909-13	27	2624
248	Engineering the surface structure of MoS ₂ to preferentially expose active edge sites for electrocatalysis. <i>Nature Materials</i> , 2012 , 11, 963-9	27	2503
247	Benchmarking hydrogen evolving reaction and oxygen evolving reaction electrocatalysts for solar water splitting devices. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4347-57	16.4	2386
246	Universality in Oxygen Evolution Electrocatalysis on Oxide Surfaces. <i>ChemCatChem</i> , 2011 , 3, 1159-1165	5.2	2321
245	Alloys of platinum and early transition metals as oxygen reduction electrocatalysts. <i>Nature Chemistry</i> , 2009 , 1, 552-6	17.6	2287
244	New insights into the electrochemical reduction of carbon dioxide on metallic copper surfaces. <i>Energy and Environmental Science</i> , 2012 , 5, 7050	35.4	1789
243	A bifunctional nonprecious metal catalyst for oxygen reduction and water oxidation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13612-4	16.4	1271
242	Progress and Perspectives of Electrochemical CO Reduction on Copper in Aqueous Electrolyte. <i>Chemical Reviews</i> , 2019 , 119, 7610-7672	68.1	1244
241	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
240	Catalyzing the Hydrogen Evolution Reaction (HER) with Molybdenum Sulfide Nanomaterials. <i>ACS Catalysis</i> , 2014 , 4, 3957-3971	13.1	1086
239	Core-shell MoO ₃ -MoS ₂ nanowires for hydrogen evolution: a functional design for electrocatalytic materials. <i>Nano Letters</i> , 2011 , 11, 4168-75	11.5	969
238	Electrocatalytic conversion of carbon dioxide to methane and methanol on transition metal surfaces. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14107-13	16.4	968
237	Accelerating materials development for photoelectrochemical hydrogen production: Standards for methods, definitions, and reporting protocols. <i>Journal of Materials Research</i> , 2010 , 25, 3-16	2.5	893
236	Technical and economic feasibility of centralized facilities for solar hydrogen production via photocatalysis and photoelectrochemistry. <i>Energy and Environmental Science</i> , 2013 , 6, 1983	35.4	868

235	Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production: Insights into the Origin of their Catalytic Activity. <i>ACS Catalysis</i> , 2012 , 2, 1916-1923	13.1	859
234	Materials for solar fuels and chemicals. <i>Nature Materials</i> , 2016 , 16, 70-81	27	846
233	Molybdenum phosphosulfide: an active, acid-stable, earth-abundant catalyst for the hydrogen evolution reaction. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14433-7	16.4	780
232	Branched TiO ₂ Nanorods for photoelectrochemical hydrogen production. <i>Nano Letters</i> , 2011 , 11, 4978-84	11.5	760
231	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Energy Letters</i> , 2016 , 1, 589-594	20.1	752
230	What would it take for renewably powered electrosynthesis to displace petrochemical processes?. <i>Science</i> , 2019 , 364,	33.3	749
229	Hydrogen evolution on nano-particulate transition metal sulfides. <i>Faraday Discussions</i> , 2008 , 140, 219-31; discussion 297-317	3.6	672
228	Designing an improved transition metal phosphide catalyst for hydrogen evolution using experimental and theoretical trends. <i>Energy and Environmental Science</i> , 2015 , 8, 3022-3029	35.4	671
227	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. <i>Nature Catalysis</i> , 2018 , 1, 156-162	36.5	632
226	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. <i>Nature</i> , 2019 , 570, 504-508	50.4	617
225	Building an appropriate active-site motif into a hydrogen-evolution catalyst with thiomolybdate [Mo ₃ S ₁₃] ²⁻ clusters. <i>Nature Chemistry</i> , 2014 , 6, 248-53	17.6	602
224	Addressing the terawatt challenge: scalability in the supply of chemical elements for renewable energy. <i>RSC Advances</i> , 2012 , 2, 7933	3.7	485
223	Electrochemical Ammonia Synthesis: The Selectivity Challenge. <i>ACS Catalysis</i> , 2017 , 7, 706-709	13.1	442
222	Plasmon enhanced solar-to-fuel energy conversion. <i>Nano Letters</i> , 2011 , 11, 3440-6	11.5	428
221	Enhancement of Photocatalytic and Electrochromic Properties of Electrochemically Fabricated Mesoporous WO ₃ Thin Films. <i>Advanced Materials</i> , 2003 , 15, 1269-1273	24	425
220	In situ X-ray absorption spectroscopy investigation of a bifunctional manganese oxide catalyst with high activity for electrochemical water oxidation and oxygen reduction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8525-34	16.4	419
219	Solar water splitting by photovoltaic-electrolysis with a solar-to-hydrogen efficiency over 30. <i>Nature Communications</i> , 2016 , 7, 13237	17.4	407
218	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

217	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
216	A Cu ₂ O/TiO ₂ heterojunction thin film cathode for photoelectrocatalysis. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 229-237	6.4	376
215	Insights into the electrocatalytic reduction of CO ₂ on metallic silver surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13814-9	3.6	368
214	Gold-supported cerium-doped NiO _x catalysts for water oxidation. <i>Nature Energy</i> , 2016 , 1,	62.3	366
213	Catalytic activity of supported Au nanoparticles deposited from block copolymer micelles. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7148-9	16.4	362
212	Benchmarking nanoparticulate metal oxide electrocatalysts for the alkaline water oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3068-3076	13	344
211	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
210	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
209	Identifying active surface phases for metal oxide electrocatalysts: a study of manganese oxide bi-functional catalysts for oxygen reduction and water oxidation catalysis. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14010-22	3.6	270
208	Active MnO _x Electrocatalysts Prepared by Atomic Layer Deposition for Oxygen Evolution and Oxygen Reduction Reactions. <i>Advanced Energy Materials</i> , 2012 , 2, 1269-1277	21.8	269
207	Gas-Diffusion Electrodes for Carbon Dioxide Reduction: A New Paradigm. <i>ACS Energy Letters</i> , 2019 , 4, 317-324	20.1	238
206	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
205	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
204	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
203	pH effects on the electrochemical reduction of CO towards C products on stepped copper. <i>Nature Communications</i> , 2019 , 10, 32	17.4	207
202	Thin Films of Sodium Birnessite-Type MnO ₂ : Optical Properties, Electronic Band Structure, and Solar Photoelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11830-11838	3.8	204
201	Steady state oxygen reduction and cyclic voltammetry. <i>Faraday Discussions</i> , 2008 , 140, 337-46; discussion 417-37	3.6	203
200	Hydrogen Evolution on Supported Incomplete Cubane-type [Mo ₃ S ₄] ⁴⁺ Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17492-17498	3.8	200

199	Understanding activity trends in electrochemical water oxidation to form hydrogen peroxide. <i>Nature Communications</i> , 2017 , 8, 701	17.4	193
198	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
197	Meso-structured platinum thin films: active and stable electrocatalysts for the oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7758-65	16.4	183
196	Synthesis and characterization of Pt-WO ₃ as methanol oxidation catalysts for fuel cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22958-66	3.4	183
195	Understanding interactions between manganese oxide and gold that lead to enhanced activity for electrocatalytic water oxidation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4920-6	16.4	182
194	Size- and support-dependent electronic and catalytic properties of Au ₀ /Au ₃₊ nanoparticles synthesized from block copolymer micelles. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12928-34	16.4	180
193	New cubic perovskites for one- and two-photon water splitting using the computational materials repository. <i>Energy and Environmental Science</i> , 2012 , 5, 9034	35.4	178
192	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
191	Modeling practical performance limits of photoelectrochemical water splitting based on the current state of materials research. <i>ChemSusChem</i> , 2014 , 7, 1372-85	8.3	168
190	Mn ₃ O ₄ Supported on Glassy Carbon: An Active Non-Precious Metal Catalyst for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012 , 2, 2687-2694	13.1	165
189	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
188	Cyclic voltammograms for H on Pt(111) and Pt(100) from first principles. <i>Physical Review Letters</i> , 2007 , 99, 126101	7.4	159
187	Substrate selection for fundamental studies of electrocatalysts and photoelectrodes: inert potential windows in acidic, neutral, and basic electrolyte. <i>PLoS ONE</i> , 2014 , 9, e107942	3.7	157
186	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
185	Designing Active and Stable Silicon Photocathodes for Solar Hydrogen Production Using Molybdenum Sulfide Nanomaterials. <i>Advanced Energy Materials</i> , 2014 , 4, 1400739	21.8	145
184	Controlled Electrodeposition of Nanoparticulate Tungsten Oxide. <i>Nano Letters</i> , 2002 , 2, 831-834	11.5	135
183	Automated electrochemical synthesis and photoelectrochemical characterization of Zn _{1-x} Co _x O thin films for solar hydrogen production. <i>ACS Combinatorial Science</i> , 2005 , 7, 264-71		134
182	A carbon-free, precious-metal-free, high-performance O ₂ electrode for regenerative fuel cells and metal-air batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 2017	35.4	121

181	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
180	Systematic Structure-Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. <i>ACS Catalysis</i> , 2017 , 7, 7810-7821	13.1	110
179	Mercury chemistry on brominated activated carbon. <i>Fuel</i> , 2012 , 99, 188-196	7.1	110
178	Structure, Composition, and Morphology of Photoelectrochemically Active TiO ₂ -xN _x Thin Films Deposited by Reactive DC Magnetron Sputtering. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 20193-20198	3.4	107
177	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
176	Effect of Film Morphology and Thickness on Charge Transport in Ta ₃ N ₅ /Ta Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15918-15924	3.8	106
175	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
174	Core-Shell Au@Metal-Oxide Nanoparticle Electrocatalysts for Enhanced Oxygen Evolution. <i>Nano Letters</i> , 2017 , 17, 6040-6046	11.5	104
173	Synthesis of thin film AuPd alloys and their investigation for electrocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20185-20194	13	101
172	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
171	Molybdenum Phosphosulfide: An Active, Acid-Stable, Earth-Abundant Catalyst for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2014 , 126, 14661-14665	3.6	96
170	Combinatorial electrochemical synthesis and characterization of tungsten-based mixed-metal oxides. <i>ACS Combinatorial Science</i> , 2002 , 4, 563-8		96
169	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
168	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
167	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
166	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
165	A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane electrolyser. <i>Nature Nanotechnology</i> , 2019 , 14, 1071-1074	28.7	87
164	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

163	Tandem Core-Shell Si-TaN Photoanodes for Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2016 , 16, 7565-7572	11.5	86
162	Chemical and Phase Evolution of Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production. <i>ACS Nano</i> , 2016 , 10, 624-32	16.7	86
161	Combinatorial Electrochemical Synthesis and Screening of Mesoporous ZnO for Photocatalysis. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 297-301	4.8	86
160	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
159	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
158	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
157	Growth of Pt nanowires by atomic layer deposition on highly ordered pyrolytic graphite. <i>Nano Letters</i> , 2013 , 13, 457-63	11.5	78
156	Nickel-silver alloy electrocatalysts for hydrogen evolution and oxidation in an alkaline electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19250-7	3.6	74
155	Bridging the Gap Between Bulk and Nanostructured Photoelectrodes: The Impact of Surface States on the Electrocatalytic and Photoelectrochemical Properties of MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9713-9722	3.8	74
154	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
153	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. <i>ACS Photonics</i> , 2014 , 1, 235-240	6.3	71
152	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
151	Impedance-based study of capacitive porous carbon electrodes with hierarchical and bimodal porosity. <i>Journal of Power Sources</i> , 2013 , 241, 266-273	8.9	67
150	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29252-29259	3.8	66
149	Electrocatalytic Activity of Gold/Platinum Clusters for Low Temperature Fuel Cell Applications. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5014-5024	3.8	66
148	A Precious-Metal-Free Regenerative Fuel Cell for Storing Renewable Electricity. <i>Advanced Energy Materials</i> , 2013 , 3, 1545-1550	21.8	65
147	Simulating Linear Sweep Voltammetry from First-Principles: Application to Electrochemical Oxidation of Water on Pt(111) and Pt ₃ Ni(111). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4698-4704	3.8	64
146	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

145	Absence of Oxidized Phases in Cu under CO Reduction Conditions. <i>ACS Energy Letters</i> , 2019 , 4, 803-804	20.1	64
144	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
143	Highly Stable Molybdenum Disulfide Protected Silicon Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36792-36798	9.5	60
142	Optoelectronic properties of Ta ₃ N ₅ : A joint theoretical and experimental study. <i>Physical Review B</i> , 2014 , 90,	3.3	60
141	High-throughput screening system for catalytic hydrogen-producing materials. <i>ACS Combinatorial Science</i> , 2002 , 4, 17-22		59
140	Gas-Phase Catalysis by Micelle Derived Au Nanoparticles on Oxide Supports. <i>Catalysis Letters</i> , 2004 , 95, 107-111	2.8	58
139	Controlling the Structural and Optical Properties of Ta ₃ N ₅ Films through Nitridation Temperature and the Nature of the Ta Metal. <i>Chemistry of Materials</i> , 2014 , 26, 1576-1582	9.6	57
138	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
137	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
136	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
135	Active and Stable [email-protected] Core-Shell Catalysts for Electrochemical Oxygen Reduction. <i>ACS Energy Letters</i> , 2017 , 2, 244-249	20.1	52
134	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. <i>Nano Research</i> , 2017 , 10, 1163-1177	10	50
133	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
132	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26863-26871	9.5	47
131	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
130	Robust and biocompatible catalysts for efficient hydrogen-driven microbial electrosynthesis. <i>Communications Chemistry</i> , 2019 , 2,	6.3	46
129	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
128	An X-ray photoelectron spectroscopy study of surface changes on brominated and sulfur-treated activated carbon sorbents during mercury capture: performance of pellet versus fiber sorbents. <i>Environmental Science & Technology</i> , 2013 , 47, 13695-701	10.3	46

127	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
126	Climbing the Activity Volcano: Core-Shell Ru@Pt Electrocatalysts for Oxygen Reduction. <i>ChemElectroChem</i> , 2014 , 1, 67-71	4.3	45
125	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
124	Applications of ALD MnO to electrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14003-11	3.6	40
123	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
122	Dynamics of Surface Exchange Reactions Between Au and Pt for HER and HOR. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B273	3.9	39
121	Polymer Electrolyte Membrane Electrolyzers Utilizing Non-precious Mo-based Hydrogen Evolution Catalysts. <i>ChemSusChem</i> , 2015 , 8, 3512-9	8.3	38
120	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
119	Crystalline Strontium Iridate Particle Catalysts for Enhanced Oxygen Evolution in Acid. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5490-5498	6.1	36
118	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
117	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
116	Carbon Dioxide Electroreduction using a Silver-Zinc Alloy. <i>Energy Technology</i> , 2017 , 5, 955-961	3.5	34
115	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
114	Automated electrochemical synthesis and characterization of TiO ₂ -supported Au nanoparticle electrocatalysts. <i>Measurement Science and Technology</i> , 2005 , 16, 54-59	2	34
113	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
112	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
111	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO ₂ electrolyzers. <i>Nature Energy</i> , 2022 , 7, 130-143	62.3	33
110	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 230, 22-28	6.7	32

109	Electro-Oxidation of Methane on Platinum under Ambient Conditions. <i>ACS Catalysis</i> , 2019 , 9, 7578-7587	13.1	32
108	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
107	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
106	A Universal Platform for Fabricating Organic Electrochemical Devices. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800090	6.4	31
105	Mesoporous Ruthenium/Ruthenium Oxide Thin Films: Active Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2017 , 4, 2480-2485	4.3	30
104	Acidic Oxygen Evolution Reaction Activity-Stability Relationships in Ru-Based Pyrochlores. <i>ACS Catalysis</i> , 2020 , 10, 12182-12196	13.1	30
103	Combined spectroscopy and microscopy of supported MoS ₂ nanoparticles. <i>Surface Science</i> , 2009 , 603, 1182-1189	1.8	29
102	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
101	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
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