Thomas F Jaramillo

List of Publications by Year
in descending order

275 papers	82,472 citations	2423 97 h-index	640 256 g-index
284 all docs	284 docs citations	284 times ranked	45748 citing authors

#	Article	IF	Citations
1	Combining theory and experiment in electrocatalysis: Insights into materials design. Science, 2017, 355, .	6.0	7,837
2	Benchmarking Heterogeneous Electrocatalysts for the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2013, 135, 16977-16987.	6.6	5,311
3	Identification of Active Edge Sites for Electrochemical H ₂ Evolution from MoS ₂ Nanocatalysts. Science, 2007, 317, 100-102.	6.0	5,149
4	Computational high-throughput screening of electrocatalytic materials for hydrogen evolution. Nature Materials, 2006, 5, 909-913.	13.3	3,305
5	Universality in Oxygen Evolution Electrocatalysis on Oxide Surfaces. ChemCatChem, 2011, 3, 1159-1165.	1.8	3,208
6	Benchmarking Hydrogen Evolving Reaction and Oxygen Evolving Reaction Electrocatalysts for Solar Water Splitting Devices. Journal of the American Chemical Society, 2015, 137, 4347-4357.	6.6	3,158
7	Engineering the surface structure of MoS2 toÂpreferentially expose active edge sites forÂelectrocatalysis. Nature Materials, 2012, 11, 963-969.	13.3	2,896
8	Alloys of platinum and early transition metals as oxygen reduction electrocatalysts. Nature Chemistry, 2009, 1, 552-556.	6.6	2,716
9	Progress and Perspectives of Electrochemical CO₂ Reduction on Copper in Aqueous Electrolyte. Chemical Reviews, 2019, 119, 7610-7672.	23.0	2,708
10	New insights into the electrochemical reduction of carbon dioxide on metallic copper surfaces. Energy and Environmental Science, 2012, 5, 7050.	15.6	2,374
11	A highly active and stable IrO <i> _x </i> /SrIrO ₃ catalyst for the oxygen evolution reaction. Science, 2016, 353, 1011-1014.	6.0	1,606
12	What would it take for renewably powered electrosynthesis to displace petrochemical processes?. Science, 2019, 364, .	6.0	1,505
13	A Bifunctional Nonprecious Metal Catalyst for Oxygen Reduction and Water Oxidation. Journal of the American Chemical Society, 2010, 132, 13612-13614.	6.6	1,425
14	Catalyzing the Hydrogen Evolution Reaction (HER) with Molybdenum Sulfide Nanomaterials. ACS Catalysis, 2014, 4, 3957-3971.	5.5	1,355
15	Electrocatalytic Conversion of Carbon Dioxide to Methane and Methanol on Transition Metal Surfaces. Journal of the American Chemical Society, 2014, 136, 14107-14113.	6.6	1,253
16	Materials for solar fuels and chemicals. Nature Materials, 2017, 16, 70-81.	13.3	1,163
17	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. Nature Catalysis, 2018, 1, 156-162.	16.1	1,120
18	Technical and economic feasibility of centralized facilities for solar hydrogen production via photocatalysis and photoelectrochemistry. Energy and Environmental Science, 2013, 6, 1983.	15.6	1,119

#	Article	IF	Citations
19	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. ACS Energy Letters, 2016, 1, 589-594.	8.8	1,100
20	Coreâ€“shell MoO₃â€“MoS₂ Nanowires for Hydrogen Evolution: A Functional Design for Electrocatalytic Materials. Nano Letters, 2011, 11, 4168-4175.	4.5	1,099
21	Accelerating materials development for photoelectrochemical hydrogen production: Standards for methods, definitions, and reporting protocols. Journal of Materials Research, 2010, 25, 3-16.	1.2	1,032
22	Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production: Insights into the Origin of their Catalytic Activity. ACS Catalysis, 2012, 2, 1916-1923.	5.5	1,007
23	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. Nature, 2019, 570, 504-508.	13.7	1,006
24	Molybdenum Phosphosulfide: An Active, Acidâ€•Stable, Earthâ€•Abundant Catalyst for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2014, 53, 14433-14437.	7.2	908
25	Designing an improved transition metal phosphide catalyst for hydrogen evolution using experimental and theoretical trends. Energy and Environmental Science, 2015, 8, 3022-3029.	15.6	851
26	Branched TiO₂ Nanorods for Photoelectrochemical Hydrogen Production. Nano Letters, 2011, 11, 4978-4984.	4.5	843
27	Hydrogen evolution on nano-particulate transition metal sulfides. Faraday Discussions, 2008, 140, 219-231.	1.6	732
28	Building an appropriate active-site motif into a hydrogen-evolution catalyst with thiomolybdate [Mo3S13]2âˆ’ clusters. Nature Chemistry, 2014, 6, 248-253.	6.6	730
29	Electrochemical Ammonia Synthesisâ€”The Selectivity Challenge. ACS Catalysis, 2017, 7, 706-709.	5.5	689
30	Promoter Effects of Alkali Metal Cations on the Electrochemical Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2017, 139, 11277-11287.	6.6	653
31	Understanding Selectivity for the Electrochemical Reduction of Carbon Dioxide to Formic Acid and Carbon Monoxide on Metal Electrodes. ACS Catalysis, 2017, 7, 4822-4827.	5.5	637
32	Addressing the terawatt challenge: scalability in the supply of chemical elements for renewable energy. RSC Advances, 2012, 2, 7933.	1.7	618
33	Solar water splitting by photovoltaic-electrolysis with a solar-to-hydrogen efficiency over 30%. Nature Communications, 2016, 7, 13237.	5.8	610
34	Improved CO2 reduction activity towards C2+ alcohols on a tandem gold on copper electrocatalyst. Nature Catalysis, 2018, 1, 764-771.	16.1	501
35	In Situ X-ray Absorption Spectroscopy Investigation of a Bifunctional Manganese Oxide Catalyst with High Activity for Electrochemical Water Oxidation and Oxygen Reduction. Journal of the American Chemical Society, 2013, 135, 8525-8534.	6.6	478
36	Benchmarking nanoparticulate metal oxide electrocatalysts for the alkaline water oxidation reaction. Journal of Materials Chemistry A, 2016, 4, 3068-3076.	5.2	477

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37	Electrochemical CO₂ Reduction over Compressively Strained CuAg Surface Alloys with Enhanced Multi-Carbon Oxygenate Selectivity. Journal of the American Chemical Society, 2017, 139, 15848-15857.	6.6	470
38	Gold-supported cerium-doped NiOx catalysts for water oxidation. Nature Energy, 2016, 1, .	19.8	458
39	Plasmon Enhanced Solar-to-Fuel Energy Conversion. Nano Letters, 2011, 11, 3440-3446.	4.5	456
40	Insights into the electrocatalytic reduction of CO₂on metallic silver surfaces. Physical Chemistry Chemical Physics, 2014, 16, 13814-13819.	1.3	455
41	Enhancement of Photocatalytic and Electrochromic Properties of Electrochemically Fabricated Mesoporous WO3 Thin Films. Advanced Materials, 2003, 15, 1269-1273.	11.1	450
42	Gas-Diffusion Electrodes for Carbon Dioxide Reduction: A New Paradigm. ACS Energy Letters, 2019, 4, 317-324.	8.8	416
43	A Cu2O/TiO2 heterojunction thin film cathode for photoelectrocatalysis. Solar Energy Materials and Solar Cells, 2003, 77, 229-237.	3.0	408
44	Catalytic Activity of Supported Au Nanoparticles Deposited from Block Copolymer Micelles. Journal of the American Chemical Society, 2003, 125, 7148-7149.	6.6	397
45	pH effects on the electrochemical reduction of CO(2) towards C2 products on stepped copper. Nature Communications, 2019, 10, 32.	5.8	371
46	Ammonia synthesis from N₂and H₂O using a lithium cycling electrification strategy at atmospheric pressure. Energy and Environmental Science, 2017, 10, 1621-1630.	15.6	342
47	Understanding activity trends in electrochemical water oxidation to form hydrogen peroxide. Nature Communications, 2017, 8, 701.	5.8	333
48	Identifying active surface phases for metal oxide electrocatalysts: a study of manganese oxide bi-functional catalysts for oxygen reduction and water oxidation catalysis. Physical Chemistry Chemical Physics, 2012, 14, 14010.	1.3	332
49	Engineering Cu surfaces for the electrocatalytic conversion of CO ₂ : Controlling selectivity toward oxygenates and hydrocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5918-5923.	3.3	311
50	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2018, 140, 7851-7859.	6.6	310
51	Electrochemical Carbon Monoxide Reduction on Polycrystalline Copper: Effects of Potential, Pressure, and pH on Selectivity toward Multicarbon and Oxygenated Products. ACS Catalysis, 2018, 8, 7445-7454.	5.5	305
52	Machine-Learning Methods Enable Exhaustive Searches for Active Bimetallic Facets and Reveal Active Site Motifs for CO₂ Reduction. ACS Catalysis, 2017, 7, 6600-6608.	5.5	300
53	Active MnO_x Electrocatalysts Prepared by Atomic Layer Deposition for Oxygen Evolution and Oxygen Reduction Reactions. Advanced Energy Materials, 2012, 2, 1269-1277.	10.2	298
54	Standards and Protocols for Data Acquisition and Reporting for Studies of the Electrochemical Reduction of Carbon Dioxide. ACS Catalysis, 2018, 8, 6560-6570.	5.5	250

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55	Thin Films of Sodium Birnessite-Type MnO₂: Optical Properties, Electronic Band Structure, and Solar Photoelectrochemistry. Journal of Physical Chemistry C, 2011, 115, 11830-11838.	1.5	249
56	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO2 electrolysers. Nature Energy, 2022, 7, 130-143.	19.8	237
57	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 311-317.	3.2	236
58	Hydrogen Evolution on Supported Incomplete Cubane-type [Mo₃S₄]⁴⁺ Electrocatalysts. Journal of Physical Chemistry C, 2008, 112, 17492-17498.	1.5	218
59	Steady state oxygenreduction and cyclic voltammetry. Faraday Discussions, 2008, 140, 337-346.	1.6	218
60	Electrolyte Engineering for Efficient Electrochemical Nitrate Reduction to Ammonia on a Titanium Electrode. ACS Sustainable Chemistry and Engineering, 2020, 8, 2672-2681.	3.2	217
61	Substrate Selection for Fundamental Studies of Electrocatalysts and Photoelectrodes: Inert Potential Windows in Acidic, Neutral, and Basic Electrolyte. PLoS ONE, 2014, 9, e107942.	1.1	213
62	New cubic perovskites for one- and two-photon water splitting using the computational materials repository. Energy and Environmental Science, 2012, 5, 9034.	15.6	211
63	A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane electrolyser. Nature Nanotechnology, 2019, 14, 1071-1074.	15.6	209
64	Understanding Interactions between Manganese Oxide and Gold That Lead to Enhanced Activity for Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2014, 136, 4920-4926.	6.6	205
65	Synthesis and Characterization of Ptâˆ'WO3as Methanol Oxidation Catalysts for Fuel Cells. Journal of Physical Chemistry B, 2005, 109, 22958-22966.	1.2	201
66	Size- and Support-Dependent Electronic and Catalytic Properties of Au0/Au3+Nanoparticles Synthesized from Block Copolymer Micelles. Journal of the American Chemical Society, 2003, 125, 12928-12934.	6.6	197
67	Meso-Structured Platinum Thin Films: Active and Stable Electrocatalysts for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2012, 134, 7758-7765.	6.6	195
68	Modeling Practical Performance Limits of Photoelectrochemical Water Splitting Based on the Current State of Materials Research. ChemSusChem, 2014, 7, 1372-1385.	3.6	195
69	Mn₃O₄ Supported on Glassy Carbon: An Active Non-Precious Metal Catalyst for the Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 2687-2694.	5.5	192
70	Cyclic Voltammograms for H on Pt(111) and Pt(100) from First Principles. Physical Review Letters, 2007, 99, 126101.	2.9	189
71	Double layer charging driven carbon dioxide adsorption limits the rate of electrochemical carbon dioxide reduction on Gold. Nature Communications, 2020, 11, 33.	5.8	188
72	Revealing the Synergy between Oxide and Alloy Phases on the Performance of Bimetallic Inâ€"Pd Catalysts for CO₂ Hydrogenation to Methanol. ACS Catalysis, 2019, 9, 3399-3412.	5.5	173

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73	Oxidation State and Surface Reconstruction of Cu under CO₂ Reduction Conditions from <i>In Situ</i> X-ray Characterization. Journal of the American Chemical Society, 2021, 143, 588-592.	6.6	172
74	Electrochemically converting carbon monoxide to liquid fuels by directing selectivity with electrode surface area. Nature Catalysis, 2019, 2, 702-708.	16.1	170
75	Designing Active and Stable Silicon Photocathodes for Solar Hydrogen Production Using Molybdenum Sulfide Nanomaterials. Advanced Energy Materials, 2014, 4, 1400739.	10.2	158
76	Development of a reactor with carbon catalysts for modular-scale, low-cost electrochemical generation of H₂O₂. Reaction Chemistry and Engineering, 2017, 2, 239-245.	1.9	157
77	Systematic Structureâ€"Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. ACS Catalysis, 2017, 7, 7810-7821.	5.5	151
78	Understanding the Origin of Highly Selective CO₂ Electroreduction to CO on Ni,Nâ€doped Carbon Catalysts. Angewandte Chemie - International Edition, 2020, 59, 4043-4050.	7.2	148
79	Controlled Electrodeposition of Nanoparticulate Tungsten Oxide. Nano Letters, 2002, 2, 831-834.	4.5	147
80	Automated Electrochemical Synthesis and Photoelectrochemical Characterization of Zn1-xCoxO Thin Films for Solar Hydrogen Production. ACS Combinatorial Science, 2005, 7, 264-271.	3.3	147
81	A carbon-free, precious-metal-free, high-performance O2 electrode for regenerative fuel cells and metalâ€"air batteries. Energy and Environmental Science, 2014, 7, 2017.	15.6	140
82	Aqueous Electrochemical Reduction of Carbon Dioxide and Carbon Monoxide into Methanol with Cobalt Phthalocyanine. Angewandte Chemie - International Edition, 2019, 58, 16172-16176.	7.2	137
83	Coreâ€"Shell Au@Metal-Oxide Nanoparticle Electrocatalysts for Enhanced Oxygen Evolution. Nano Letters, 2017, 17, 6040-6046.	4.5	135
84	Engineering Cobalt Phosphide (CoP) Thin Film Catalysts for Enhanced Hydrogen Evolution Activity on Silicon Photocathodes. Advanced Energy Materials, 2016, 6, 1501758.	10.2	134
85	Mercury chemistry on brominated activated carbon. Fuel, 2012, 99, 188-196.	3.4	125
86	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. ACS Catalysis, 2017, 7, 4372-4380.	5.5	124
87	Electrochemical CO₂ reduction on Au surfaces: mechanistic aspects regarding the formation of major and minor products. Physical Chemistry Chemical Physics, 2017, 19, 15856-15863.	1.3	124
88	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. ACS Catalysis, 2017, 7, 5399-5409.	5.5	120
89	Effect of Film Morphology and Thickness on Charge Transport in Ta₃N₅/Ta Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2012, 116, 15918-15924.	1.5	119
90	Influence of Atomic Surface Structure on the Activity of Ag for the Electrochemical Reduction of CO₂ to CO. ACS Catalysis, 2019, 9, 4006-4014.	5.5	119

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91	Synthesis of thin film AuPd alloys and their investigation for electrocatalytic CO₂reduction. Journal of Materials Chemistry A, 2015, 3, 20185-20194.	5.2	116
92	Combinatorial Electrochemical Synthesis and Characterization of Tungsten-Based Mixed-Metal Oxides. ACS Combinatorial Science, 2002, 4, 563-568.	3.3	113
93	Structure, Composition, and Morphology of Photoelectrochemically Active TiO2-xNxThin Films Deposited by Reactive DC Magnetron Sputtering. Journal of Physical Chemistry B, 2004, 108, 20193-20198.	1.2	113
94	Acidic Oxygen Evolution Reaction Activityâ€"Stability Relationships in Ru-Based Pyrochlores. ACS Catalysis, 2020, 10, 12182-12196.	5.5	111
95	Chemical and Phase Evolution of Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production. ACS Nano, 2016, 10, 624-632.	7.3	109
96	Trends in the Catalytic Activity of Hydrogen Evolution during CO₂ Electroreduction on Transition Metals. ACS Catalysis, 2018, 8, 3035-3040.	5.5	107
97	Tuning the electronic structure of Ag-Pd alloys to enhance performance for alkaline oxygen reduction. Nature Communications, 2021, 12, 620.	5.8	107
98	Nickelâ€"silver alloy electrocatalysts for hydrogen evolution and oxidation in an alkaline electrolyte. Physical Chemistry Chemical Physics, 2014, 16, 19250.	1.3	101
99	Tandem Coreâ€"Shell Siâ€"Ta₃N₅ Photoanodes for Photoelectrochemical Water Splitting. Nano Letters, 2016, 16, 7565-7572.	4.5	99
100	Combinatorial Electrochemical Synthesis and Screening of Mesoporous ZnO for Photocatalysis. Macromolecular Rapid Communications, 2004, 25, 297-301.	2.0	98
101	A Versatile Method for Ammonia Detection in a Range of Relevant Electrolytes via Direct Nuclear Magnetic Resonance Techniques. ACS Catalysis, 2019, 9, 5797-5802.	5.5	97
102	Absence of Oxidized Phases in Cu under CO Reduction Conditions. ACS Energy Letters, 2019, 4, 803-804.	8.8	97
103	Enhancement Effect of Noble Metals on Manganese Oxide for the Oxygen Evolution Reaction. Journal of Physical Chemistry Letters, 2015, 6, 4178-4183.	2.1	89
104	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2014, 118, 29252-29259.	1.5	87
105	Bridging the Gap Between Bulk and Nanostructured Photoelectrodes: The Impact of Surface States on the Electrocatalytic and Photoelectrochemical Properties of MoS₂. Journal of Physical Chemistry C, 2013, 117, 9713-9722.	1.5	86
106	Growth of Pt Nanowires by Atomic Layer Deposition on Highly Ordered Pyrolytic Graphite. Nano Letters, 2013, 13, 457-463.	4.5	86
107	Selective reduction of CO to acetaldehyde with CuAg electrocatalysts. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12572-12575.	3.3	85
108	Impedance-based study of capacitive porous carbon electrodes with hierarchical and bimodal porosity. Journal of Power Sources, 2013, 241, 266-273.	4.0	82

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109	Robust and biocompatible catalysts for efficient hydrogen-driven microbial electrosynthesis. Communications Chemistry, 2019, 2, .	2.0	82
110	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 26863-26871.	4.0	81
111	A Preciousâ€Metalâ€Free Regenerative Fuel Cell for Storing Renewable Electricity. Advanced Energy Materials, 2013, 3, 1545-1550.	10.2	80
112	Design and Fabrication of a Precious Metalâ€Free Tandem Coreâ€"Shell p⁺n Si/Wâ€Doped BiVO₄ Photoanode for Unassisted Water Splitting. Advanced Energy Materials, 2017, 7, 1701515.	10.2	79
113	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. ACS Photonics, 2014, 1, 235-240.	3.2	76
114	Investigating Catalystâ€"Support Interactions To Improve the Hydrogen Evolution Reaction Activity of Thiomolybdate [Mo₃S₁₃]^{2â€"} Nanoclusters. ACS Catalysis, 2017, 7, 7126-7130.	5.5	76
115	Guiding Electrochemical Carbon Dioxide Reduction toward Carbonyls Using Copper Silver Thin Films with Interphase Miscibility. ACS Energy Letters, 2018, 3, 2947-2955.	8.8	75
116	Molybdenum Disulfide as a Protection Layer and Catalyst for Gallium Indium Phosphide Solar Water Splitting Photocathodes. Journal of Physical Chemistry Letters, 2016, 7, 2044-2049.	2.1	74
117	Rapid flame doping of Co to WS₂ for efficient hydrogen evolution. Energy and Environmental Science, 2018, 11, 2270-2277.	15.6	74
118	Highly Stable Molybdenum Disulfide Protected Silicon Photocathodes for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36792-36798.	4.0	73
119	Electrocatalytic Activity of Goldâˆ’Platinum Clusters for Low Temperature Fuel Cell Applications. Journal of Physical Chemistry C, 2009, 113, 5014-5024.	1.5	72
120	Active and Stable Ir@Pt Coreâ€"Shell Catalysts for Electrochemical Oxygen Reduction. ACS Energy Letters, 2017, 2, 244-249.	8.8	72
121	Simulating Linear Sweep Voltammetry from First-Principles: Application to Electrochemical Oxidation of Water on Pt(111) and Pt₃Ni(111). Journal of Physical Chemistry C, 2012, 116, 4698-4704.	1.5	71
122	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO₂. Angewandte Chemie - International Edition, 2018, 57, 15045-15050.	7.2	69
123	Ni5Ga3 catalysts for CO2 reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. Applied Catalysis B: Environmental, 2020, 267, 118369.	10.8	68
124	Gas-Phase Catalysis by Micelle Derived Au Nanoparticles on Oxide Supports. Catalysis Letters, 2004, 95, 107-111.	1.4	67
125	A Combined Theoryâ€Experiment Analysis of the Surface Species in Lithiumâ€Mediated NH₃ Electrosynthesis. ChemElectroChem, 2020, 7, 1542-1549.	1.7	67
126	Optoelectronic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Ta</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>: A joint theoretical and experimental study. Physical Review B, 2014, 90, .	1.1	66

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127	Controlling the Structural and Optical Properties of Ta3N5 Films through Nitridation Temperature and the Nature of the Ta Metal. Chemistry of Materials, 2014, 26, 1576-1582.	3.2	66
128	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. Nano Research, 2017, 10, 1163-1177.	5.8	66
129	The Predominance of Hydrogen Evolution on Transition Metal Sulfides and Phosphides under CO₂ Reduction Conditions: An Experimental and Theoretical Study. ACS Energy Letters, 2018, 3, 1450-1457.	8.8	66
130	High-Throughput Screening System for Catalytic Hydrogen-Producing Materials. ACS Combinatorial Science, 2002, 4, 17-22.	3.3	65
131	Building upon the Koutecky-Levich Equation for Evaluation of Next-Generation Oxygen Reduction Reaction Catalysts. Electrochimica Acta, 2017, 255, 99-108.	2.6	63
132	Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition. Nature Catalysis, 2018, 1, 624-630.	16.1	63
133	Crystalline Strontium Iridate Particle Catalysts for Enhanced Oxygen Evolution in Acid. ACS Applied Energy Materials, 2019, 2, 5490-5498.	2.5	61
134	Nitride or Oxynitride? Elucidating the Compositionâ€“Activity Relationships in Molybdenum Nitride Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 2946-2960.	3.2	57
135	Systematic Investigation of Iridium-Based Bimetallic Thin Film Catalysts for the Oxygen Evolution Reaction in Acidic Media. ACS Applied Materials & Interfaces, 2019, 11, 34059-34066.	4.0	56
136	Electro-Oxidation of Methane on Platinum under Ambient Conditions. ACS Catalysis, 2019, 9, 7578-7587.	5.5	53
137	Using pH Dependence to Understand Mechanisms in Electrochemical CO Reduction. ACS Catalysis, 2022, 12, 4344-4357.	5.5	53
138	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. Environmental Science & Technology, 2013, 47, 13695-13701.	4.6	51
139	Polymer Electrolyte Membrane Electrolyzers Utilizing Nonâ€precious Moâ€based Hydrogen Evolution Catalysts. ChemSusChem, 2015, 8, 3512-3519.	3.6	51
140	Understanding the Influence of [EMIM]Cl on the Suppression of the Hydrogen Evolution Reaction on Transition Metal Electrodes. Langmuir, 2017, 33, 9464-9471.	1.6	50
141	Advanced manufacturing for electrosynthesis of fuels and chemicals from CO₂. Energy and Environmental Science, 2021, 14, 3064-3074.	15.6	50
142	Climbing the Activity Volcano: Coreâ€“Shell Ru@Pt Electrocatalysts for Oxygen Reduction. ChemElectroChem, 2014, 1, 67-71.	1.7	49
143	Evaluating the Case for Reduced Precious Metal Catalysts in Proton Exchange Membrane Electrolyzers. ACS Energy Letters, 2022, 7, 17-23.	8.8	49
144	Understanding the Origin of Highly Selective CO₂ Electroreduction to CO on Ni,Nâ€doped Carbon Catalysts. Angewandte Chemie, 2020, 132, 4072-4079.	1.6	48

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145	Addressing the Stability Gap in Photoelectrochemistry: Molybdenum Disulfide Protective Catalysts for Tandem IIIâ€"V Unassisted Solar Water Splitting. ACS Energy Letters, 2020, 5, 2631-2640.	8.8	48
146	Acid anion electrolyte effects on platinum for oxygen and hydrogen electrocatalysis. Communications Chemistry, 2022, 5, .	2.0	48
147	Direct Characterization of Atomically Dispersed Catalysts: Nitrogenâ€Coordinated Ni Sites in Carbonâ€Based Materials for CO₂ Electroreduction. Advanced Energy Materials, 2020, 10, 2001836.	10.2	46
148	Simultaneous detection of electronic structure changes from two elements of a bifunctional catalyst using wavelength-dispersive X-ray emission spectroscopy and in situ electrochemistry. Physical Chemistry Chemical Physics, 2015, 17, 8901-8912.	1.3	45
149	Carbon Dioxide Electroreduction using a Silverâ€"Zinc Alloy. Energy Technology, 2017, 5, 955-961.	1.8	45
150	Enhancing the connection between computation and experiments in electrocatalysis. Nature Catalysis, 2022, 5, 374-381.	16.1	45
151	Applications of ALD MnO to electrochemical water splitting. Physical Chemistry Chemical Physics, 2015, 17, 14003-14011.	1.3	44
152	Chemical Modifications of Ag Catalyst Surfaces with Imidazolium Ionomers Modulate H₂ Evolution Rates during Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2021, 143, 14712-14725.	6.6	44
153	A Universal Platform for Fabricating Organic Electrochemical Devices. Advanced Electronic Materials, 2018, 4, 1800090.	2.6	43
154	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO2 to CO. Chem Catalysis, 2021, 1, 663-680.	2.9	42
155	Dynamics of Surface Exchange Reactions Between Au and Pt for HER and HOR. Journal of the Electrochemical Society, 2009, 156, B273.	1.3	41
156	Two-Dimensional Conductive Ni-HAB as a Catalyst for the Electrochemical Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2020, 12, 39074-39081.	4.0	41
157	Designing a Znâ€"Ag Catalyst Matrix and Electrolyzer System for CO₂ Conversion to CO and Beyond. Advanced Materials, 2022, 34, e2103963.	11.1	41
158	Copper Silver Thin Films with Metastable Miscibility for Oxygen Reduction Electrocatalysis in Alkaline Electrolytes. ACS Applied Energy Materials, 2018, 1, 1990-1999.	2.5	40
159	Band Edge Engineering of Oxide Photoanodes for Photoelectrochemical Water Splitting: Integration of Subsurface Dipoles with Atomicâ€Scale Control. Advanced Energy Materials, 2016, 6, 1502154.	10.2	39
160	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. Electrochimica Acta, 2017, 230, 22-28.	2.6	39
161	Mesoporous Ruthenium/Ruthenium Oxide Thin Films: Active Electrocatalysts for the Oxygen Evolution Reaction. ChemElectroChem, 2017, 4, 2480-2485.	1.7	39
162	Automated electrochemical synthesis and characterization of TiO2supported Au nanoparticle electrocatalysts. Measurement Science and Technology, 2005, 16, 54-59.	1.4	38

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