Thomas F Jaramillo

List of Publications by Year
in descending order

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275	82,472	2423	640
papers	citations	97 h-index	256 g-index

284	284	284	45748
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving intrinsic oxygen reduction activity and stability: Atomic layer deposition preparation of platinum-titanium alloy catalysts. Applied Catalysis B: Environmental, 2022, 300, 120741.	10.8	14
2	Designing a Znâ€“Ag Catalyst Matrix and Electrolyzer System for CO₂ Conversion to CO and Beyond. Advanced Materials, 2022, 34, e2103963.	11.1	41
3	Evaluating the Case for Reduced Precious Metal Catalysts in Proton Exchange Membrane Electrolyzers. ACS Energy Letters, 2022, 7, 17-23.	8.8	49
4	Engineering Surface Architectures for Improved Durability in IIIâ€“V Photocathodes. ACS Applied Materials & Interfaces, 2022, 14, 20385-20392.	4.0	6
5	Demonstration of photoreactor platform for on-sun unassisted photoelectrochemical hydrogen generation with tandem IIIâ€“V photoelectrodes. Chem Catalysis, 2022, 2, 195-209.	2.9	14
6	Characterization of a Dynamic Y₂Ir₂O₇ Catalyst during the Oxygen Evolution Reaction in Acid. Journal of Physical Chemistry C, 2022, 126, 1751-1760.	1.5	17
7	Engineering metalâ€“metal oxide surfaces for high-performance oxygen reduction on Agâ€“Mn electrocatalysts. Energy and Environmental Science, 2022, 15, 1611-1629.	15.6	22
8	Acid anion electrolyte effects on platinum for oxygen and hydrogen electrocatalysis. Communications Chemistry, 2022, 5, .	2.0	48
9	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO2 electrolysers. Nature Energy, 2022, 7, 130-143.	19.8	237
10	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. Journal of Physical Chemistry C, 2022, 126, 5575-5583.	1.5	2
11	Using pH Dependence to Understand Mechanisms in Electrochemical CO Reduction. ACS Catalysis, 2022, 12, 4344-4357.	5.5	53
12	First-Row Transition Metal Antimonates for the Oxygen Reduction Reaction. ACS Nano, 2022, 16, 6334-6348.	7.3	23
13	Lithium-Mediated Electrochemical Nitrogen Reduction: Tracking Electrodeâ€“Electrolyte Interfaces via Time-Resolved Neutron Reflectometry. ACS Energy Letters, 2022, 7, 1939-1946.	8.8	20
14	Vaporâ€Fed Electrolyzers for Carbon Dioxide Reduction Using Tandem Electrocatalysts: Cuprous Oxide Coupled with Nickelâ€Coordinated Nitrogenâ€Doped Carbon. Advanced Functional Materials, 2022, 32, .	7.8	15
15	Enhancing the connection between computation and experiments in electrocatalysis. Nature Catalysis, 2022, 5, 374-381.	16.1	45
16	Methodsâ€”A Practical Approach to the Reversible Hydrogen Electrode Scale. Journal of the Electrochemical Society, 2022, 169, 066505.	1.3	11
17	Incorporating ALD Based Pt Alloy Catalysts into Gas Diffusion Electrodes for Proton Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2022, MA2022-01, 1423-1423.	0.0	0
18	Alloyed Ptâ€“Zn Oxygen Reduction Catalysts for Proton Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2022, 5, 8282-8291.	2.5	6

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19	Evaluating Bipolar Membrane Electrolyzers for Green Hydrogen Production from Impure Water Sources. ECS Meeting Abstracts, 2022, MA2022-01, 2461-2461.	0.0	0
20	Acid Anion Electrolyte Effects on Platinum for Oxygen and Hydrogen Electrocatalysis. ECS Meeting Abstracts, 2022, MA2022-01, 2056-2056.	0.0	0
21	CO as a Probe Molecule to Study Surface Adsorbates during Electrochemical Oxidation of Propene. ChemElectroChem, 2021, 8, 250-256.	1.7	9
22	Tungsten oxide-coated copper gallium selenide sustains long-term solar hydrogen evolution. Sustainable Energy and Fuels, 2021, 5, 384-390.	2.5	7
23	Cobalt porphyrin intercalation into zirconium phosphate layers for electrochemical water oxidation. Sustainable Energy and Fuels, 2021, 5, 430-437.	2.5	14
24	Advanced manufacturing for electrosynthesis of fuels and chemicals from CO₂. Energy and Environmental Science, 2021, 14, 3064-3074.	15.6	50
25	A refraction correction for buried interfaces applied to in situ grazing-incidence X-ray diffraction studies on Pd electrodes. Journal of Synchrotron Radiation, 2021, 28, 919-923.	1.0	6
26	Isolating the Electrocatalytic Activity of a Confined NiFe Motif within Zirconium Phosphate. Advanced Energy Materials, 2021, 11, 2003545.	10.2	21
27	Earth-Abundant Electrocatalysts for the Oxygen Evolution Reaction of Water Splitting Using Nanostructured Layered Inorganic Materials. ECS Meeting Abstracts, 2021, MA2021-01, 1827-1827.	0.0	0
28	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO₂ Conversion with Carbonâ€Based Materials. Angewandte Chemie - International Edition, 2021, 60, 17472-17480.	7.2	21
29	Direct Integration of Strainedâ€Pt Catalysts into Protonâ€Exchangeâ€Membrane Fuel Cells with Atomic Layer Deposition. Advanced Materials, 2021, 33, e2007885.	11.1	10
30	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO 2 Conversion with Carbonâ€Based Materials. Angewandte Chemie, 2021, 133, 17613-17621.	1.6	1
31	Understanding Degradation Mechanisms in SrIrO₃ Oxygen Evolution Electrocatalysts: Chemical and Structural Microscopy at the Nanoscale. Advanced Functional Materials, 2021, 31, 2101542.	7.8	16
32	Dynamics and Hysteresis of Hydrogen Intercalation and Deintercalation in Palladium Electrodes: A Multimodal In Situ X-ray Diffraction, Coulometry, and Computational Study. Chemistry of Materials, 2021, 33, 5872-5884.	3.2	11
33	Prospects for In Situ TEM on Electrocatalyst Materials for Sustainable Energy Technologies. Microscopy and Microanalysis, 2021, 27, 44-45.	0.2	0
34	Probing the Effects of Acid Electrolyte Anions on Electrocatalyst Activity and Selectivity for the Oxygen Reduction Reaction. ChemElectroChem, 2021, 8, 2467-2478.	1.7	25
35	Phosphate-passivated mordenite for tandem-catalytic conversion of syngas to ethanol or acetic acid. Journal of Catalysis, 2021, 399, 132-141.	3.1	9
36	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

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37	Guiding the Catalytic Properties of Copper for Electrochemical CO₂ Reduction by Metal Atom Decoration. ACS Applied Materials & Interfaces, 2021, 13, 52044-52054.	4.0	16
38	Electrolyte-Guided Design of Electroreductive CO Coupling on Copper Surfaces. ACS Applied Energy Materials, 2021, 4, 8201-8210.	2.5	6
39	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
40	Understanding Selectivity in CO2 Hydrogenation to Methanol for MoP Nanoparticle Catalysts Using In Situ Techniques. Catalysts, 2021, 11, 143.	1.6	11
41	Bottom-Up Fabrication of Oxygen Reduction Electrodes with Atomic Layer Deposition for High-Power-Density PEMFCs. Cell Reports Physical Science, 2021, 2, 100297.	2.8	10
42	Tuning the electronic structure of Ag-Pd alloys to enhance performance for alkaline oxygen reduction. Nature Communications, 2021, 12, 620.	5.8	107
43	Oxidation State and Surface Reconstruction of Cu under CO₂ Reduction Conditions from In Situ X-ray Characterization. Journal of the American Chemical Society, 2021, 143, 588-592.	6.6	172
44	Microenvironment Effects on Electrocatalytic Oxygen Reduction: The Role of Acid Electrolyte Anions. ECS Meeting Abstracts, 2021, MA2021-02, 1422-1422.	0.0	0
45	Advanced Manufacturing for Electrosynthesis of Fuels and Chemicals from CO2. ECS Meeting Abstracts, 2021, MA2021-02, 815-815.	0.0	1
46	(Invited) Electrocatalysts for Water-Splitting: Design, Development, and Integration Into Devices for Water Electrolysis and Solar Photoelectrochemical (PEC) Hydrogen Production. ECS Meeting Abstracts, 2021, MA2021-02, 1325-1325.	0.0	0
47	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
48	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
49	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
50	A Combined Theoryâ€Experiment Analysis of the Surface Species in Lithiumâ€Mediated NH₃ Electrosynthesis. ChemElectroChem, 2020, 7, 1542-1549.	1.7	67
51	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
52	Morphology control of metal-modified zirconium phosphate support structures for the oxygen evolution reaction. Dalton Transactions, 2020, 49, 3892-3900.	1.6	20
53	Acidic Oxygen Evolution Reaction Activityâ€“Stability Relationships in Ru-Based Pyrochlores. ACS Catalysis, 2020, 10, 12182-12196.	5.5	111
54	Readily Constructed Glass Piston Pump for Gas Recirculation. ACS Omega, 2020, 5, 16455-16459.	1.6	5

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55	Modified atomic layer deposition of MoS2 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	14
56	Nanosized Zirconium Porphyrinic Metalâ€“Organic Frameworks that Catalyze the Oxygen Reduction Reaction in Acid. Small Methods, 2020, 4, 2000085.	4.6	18
57	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
58	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
59	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
60	Identifying and Tuning the In Situ Oxygen-Rich Surface of Molybdenum Nitride Electrocatalysts for Oxygen Reduction. ACS Applied Energy Materials, 2020, 3, 12433-12446.	2.5	17
61	High Resolution Transmission Electron Microscopy Study on the Degradation of IrO_x/SrIrO₃ as an Oxygen Evolution Catalyst. Microscopy and Microanalysis, 2020, 26, 3168-3169.	0.2	2
62	Low-pressure methanol synthesis from CO2 over metal-promoted Ni-Ga intermetallic catalysts. Journal of CO2 Utilization, 2020, 39, 101151.	3.3	27
63	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
64	Water Splitting Electrocatalysis within Layered Inorganic Nanomaterials. , 2020, , .		3
65	Using Microenvironments to Control Reactivity in CO2 Electrocatalysis. Joule, 2020, 4, 292-294.	11.7	35
66	In Situ X-Ray Absorption Spectroscopy Disentangles the Roles of Copper and Silver in a Bimetallic Catalyst for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 1819-1827.	3.2	30
67	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
68	A Spin Coating Method To Deposit Iridium-Based Catalysts onto Silicon for Water Oxidation Photoanodes. ACS Applied Materials & Interfaces, 2020, 12, 5901-5908.	4.0	12
69	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
70	A Combined Theoryâ€Experiment Analysis of the Surface Species in Lithiumâ€Mediated NH₃ Electrosynthesis. ChemElectroChem, 2020, 7, 1513-1513.	1.7	2
71	A cyclic electrochemical strategy to produce acetylene from CO₂, CH₄, or alternative carbon sources. Sustainable Energy and Fuels, 2020, 4, 2752-2759.	2.5	9
72	Development of Reliable Methods and Protocols for Electrocatalytic N2 Reduction. ECS Meeting Abstracts, 2020, MA2020-02, 2860-2860.	0.0	0

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73	Design and on-Sun Testing of Tandem III-V Photoelectrochemical Water-Splitting Systems. ECS Meeting Abstracts, 2020, MA2020-02, 3051-3051.	0.0	0
74	Enhanced Oxygen Reduction Activity on Silver-Palladium Alloyed Thin Film Electrocatalysts in Alkaline Media. ECS Meeting Abstracts, 2020, MA2020-02, 2397-2397.	0.0	0
75	Use of in Situ Synchrotron Techniques to Probe the Oxidized Surface of Molybdenum Nitride Oxygen Reduction Electrocatalysis. ECS Meeting Abstracts, 2020, MA2020-02, 3157-3157.	0.0	0
76	Electrodialysis and Nitrate Reduction to Synthesize and Recover Ammonia from Wastewaters. ECS Meeting Abstracts, 2020, MA2020-02, 1546-1546.	0.0	0
77	Transmission Electron Microscopy (TEM) Studies on Nickel and Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts. Microscopy and Microanalysis, 2019, 25, 2072-2073.	0.2	1
78	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 26863-26871.	4.0	81
79	Crystalline Strontium Iridate Particle Catalysts for Enhanced Oxygen Evolution in Acid. ACS Applied Energy Materials, 2019, 2, 5490-5498.	2.5	61
80	Electro-Oxidation of Methane on Platinum under Ambient Conditions. ACS Catalysis, 2019, 9, 7578-7587.	5.5	53
81	Interfacial engineering of gallium indium phosphide photoelectrodes for hydrogen evolution with precious metal and non-precious metal based catalysts. Journal of Materials Chemistry A, 2019, 7, 16821-16832.	5.2	24
82	Surface Engineering of 3D Gas Diffusion Electrodes for Highâ€Performance H₂ Production with Nonprecious Metal Catalysts. Advanced Energy Materials, 2019, 9, 1901824.	10.2	11
83	Aqueous Electrochemical Reduction of Carbon Dioxide and Carbon Monoxide into Methanol with Cobalt Phthalocyanine. Angewandte Chemie, 2019, 131, 16318-16322.	1.6	21
84	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
85	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
86	Transition Metal Arsenide Catalysts for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2019, 123, 24007-24012.	1.5	18
87	Molybdenum Disulfide Catalytic Coatings via Atomic Layer Deposition for Solar Hydrogen Production from Copper Gallium Diselenide Photocathodes. ACS Applied Energy Materials, 2019, 2, 1060-1066.	2.5	17
88	Progress and Perspectives of Electrochemical CO₂ Reduction on Copper in Aqueous Electrolyte. Chemical Reviews, 2019, 119, 7610-7672.	23.0	2,708
89	Electrochemically converting carbon monoxide to liquid fuels by directing selectivity with electrode surface area. Nature Catalysis, 2019, 2, 702-708.	16.1	170
90	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. Nature, 2019, 570, 504-508.	13.7	1,006

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91	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
92	Transition Metal-Modified Exfoliated Zirconium Phosphate as an Electrocatalyst for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 3561-3567.	2.5	21
93	What would it take for renewably powered electrosynthesis to displace petrochemical processes?. Science, 2019, 364, .	6.0	1,505
94	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
95	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
96	Robust and biocompatible catalysts for efficient hydrogen-driven microbial electrosynthesis. Communications Chemistry, 2019, 2, .	2.0	82
97	Development of Molybdenum Phosphide Catalysts for Higher Alcohol Synthesis from Syngas by Exploiting Support and Promoter Effects. Energy Technology, 2019, 7, 1801102.	1.8	12
98	Absence of Oxidized Phases in Cu under CO Reduction Conditions. ACS Energy Letters, 2019, 4, 803-804.	8.8	97
99	Electrochemical flow cell enabling operando probing of electrocatalyst surfaces by X-ray spectroscopy and diffraction. Physical Chemistry Chemical Physics, 2019, 21, 5402-5408.	1.3	38
100	The Materials Research Platform: Defining the Requirements from User Stories. Matter, 2019, 1, 1433-1438.	5.0	19
101	A non-precious metal hydrogen catalyst in a commercial polymer electrolyte membrane electrolyser. Nature Nanotechnology, 2019, 14, 1071-1074.	15.6	209
102	pH effects on the electrochemical reduction of CO(2) towards C2 products on stepped copper. Nature Communications, 2019, 10, 32.	5.8	371
103	Nanostructuring Strategies To Increase the Photoelectrochemical Water Splitting Activity of Silicon Photocathodes. ACS Applied Nano Materials, 2019, 2, 6-11.	2.4	19
104	Gas-Diffusion Electrodes for Carbon Dioxide Reduction: A New Paradigm. ACS Energy Letters, 2019, 4, 317-324.	8.8	416
105	Trends in the Catalytic Activity of Hydrogen Evolution during CO₂ Electroreduction on Transition Metals. ACS Catalysis, 2018, 8, 3035-3040.	5.5	107
106	Cyclic-Voltammetry-Based Solid-State Gas Sensor for Methane and Other VOC Detection. Analytical Chemistry, 2018, 90, 6102-6108.	3.2	33
107	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. Nature Catalysis, 2018, 1, 156-162.	16.1	1,120
108	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 311-317.	3.2	236

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109	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
110	Improved CO2 reduction activity towards C2+ alcohols on a tandem gold on copper electrocatalyst. Nature Catalysis, 2018, 1, 764-771.	16.1	501
111	Engineering Ru@Pt Core-Shell Catalysts for Enhanced Electrochemical Oxygen Reduction Mass Activity and Stability. Nanomaterials, 2018, 8, 38.	1.9	30
112	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
113	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
114	A Universal Platform for Fabricating Organic Electrochemical Devices. Advanced Electronic Materials, 2018, 4, 1800090.	2.6	43
115	Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition. Nature Catalysis, 2018, 1, 624-630.	16.1	63
116	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
117	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
118	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO₂. Angewandte Chemie, 2018, 130, 15265-15270.	1.6	15
119	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO₂. Angewandte Chemie - International Edition, 2018, 57, 15045-15050.	7.2	69
120	Rapid flame doping of Co to WS₂ for efficient hydrogen evolution. Energy and Environmental Science, 2018, 11, 2270-2277.	15.6	74
121	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
122	Combining theory and experiment in electrocatalysis: Insights into materials design. Science, 2017, 355, .	6.0	7,837
123	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. Electrochimica Acta, 2017, 230, 22-28.	2.6	39
124	Carbon Dioxide Electroreduction using a Silverâ€“Zinc Alloy. Energy Technology, 2017, 5, 955-961.	1.8	45
125	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
126	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. Nano Research, 2017, 10, 1163-1177.	5.8	66

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127	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. ACS Catalysis, 2017, 7, 4372-4380.	5.5	124
128	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
129	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
130	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
131	Top-down fabrication of fluorine-doped tin oxide nanopillar substrates for solar water splitting. RSC Advances, 2017, 7, 28350-28357.	1.7	9
132	Electrochemical Ammonia Synthesisâ€"The Selectivity Challenge. ACS Catalysis, 2017, 7, 706-709.	5.5	689
133	Active and Stable Ir@Pt Coreâ€"Shell Catalysts for Electrochemical Oxygen Reduction. ACS Energy Letters, 2017, 2, 244-249.	8.8	72
134	Materials for solar fuels and chemicals. Nature Materials, 2017, 16, 70-81.	13.3	1,163
135	Building upon the Koutecky-Levich Equation for Evaluation of Next-Generation Oxygen Reduction Reaction Catalysts. Electrochimica Acta, 2017, 255, 99-108.	2.6	63
136	Effects of Ta₃N₅ Morphology and Composition on the Performance of Siâ€Ta₃NÂ₅ Photoanodes. Solar Rrl, 2017, 1, 1700121.	3.1	11
137	Systematic Structureâ€"Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. ACS Catalysis, 2017, 7, 7810-7821.	5.5	151
138	Coreâ€"Shell Au@Metal-Oxide Nanoparticle Electrocatalysts for Enhanced Oxygen Evolution. Nano Letters, 2017, 17, 6040-6046.	4.5	135
139	Understanding activity trends in electrochemical water oxidation to form hydrogen peroxide. Nature Communications, 2017, 8, 701.	5.8	333
140	Highly Stable Molybdenum Disulfide Protected Silicon Photocathodes for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36792-36798.	4.0	73
141	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
142	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
143	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
144	Mesoporous Ruthenium/Ruthenium Oxide Thin Films: Active Electrocatalysts for the Oxygen Evolution Reaction. ChemElectroChem, 2017, 4, 2480-2485.	1.7	39

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145	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
146	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
147	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
148	Photocatalysis: Design and Fabrication of a Precious Metalâ€Free Tandem Coreâ€“Shell p⁺n Si/Wâ€Doped BiVO₄ Photoanode for Unassisted Water Splitting (Adv. Energy Mater. 22/2017). Advanced Energy Materials, 2017, 7, .	10.2	0
149	Impact of Nanostructuring on the Photoelectrochemical Performance of Si/Ta₃N₅ Nanowire Photoanodes. Journal of Physical Chemistry C, 2017, 121, 27295-27302.	1.5	9
150	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
151	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
152	Transition Metal-Modified Zirconium Phosphate Electrocatalysts for the Oxygen Evolution Reaction. Catalysts, 2017, 7, 132.	1.6	27
153	Polyol Synthesis of Cobaltâ€“Copper Alloy Catalysts for Higher Alcohol Synthesis from Syngas. Catalysis Letters, 2017, 147, 2352-2359.	1.4	10
154	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
155	Improving the Photoelectrochemical Performance of Hematite by Employing a High Surface Area Scaffold and Engineering Solidâ€“Solid Interfaces. Advanced Materials Interfaces, 2016, 3, 1500626.	1.9	14
156	Engineering Cobalt Phosphide (CoP) Thin Film Catalysts for Enhanced Hydrogen Evolution Activity on Silicon Photocathodes. Advanced Energy Materials, 2016, 6, 1501758.	10.2	134
157	Mesoporous platinum nickel thin films with double gyroid morphology for the oxygen reduction reaction. Nano Energy, 2016, 29, 243-248.	8.2	26
158	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
159	Microfabricated electrochemical gas sensor. Micro and Nano Letters, 2016, 11, 798-802.	0.6	6
160	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. ACS Energy Letters, 2016, 1, 589-594.	8.8	1,100
161	A highly active and stable IrO _x /SrIrO ₃ catalyst for the oxygen evolution reaction. Science, 2016, 353, 1011-1014.	6.0	1,606
162	Tandem Coreâ€“Shell Siâ€“Ta₃N₅ Photoanodes for Photoelectrochemical Water Splitting. Nano Letters, 2016, 16, 7565-7572.	4.5	99

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163	Gold-supported cerium-doped NiOx catalysts for water oxidation. Nature Energy, 2016, 1, .	19.8	458
164	Solar water splitting by photovoltaic-electrolysis with a solar-to-hydrogen efficiency over 30%. Nature Communications, 2016, 7, 13237.	5.8	610
165	Elucidating the electronic structure of supported gold nanoparticles and its relevance to catalysis by means of hard X-ray photoelectron spectroscopy. Surface Science, 2016, 650, 24-33.	0.8	23
166	Tuning Composition and Activity of Cobalt Titanium Oxide Catalysts for the Oxygen Evolution Reaction. Electrochimica Acta, 2016, 193, 240-245.	2.6	26
167	Benchmarking nanoparticulate metal oxide electrocatalysts for the alkaline water oxidation reaction. Journal of Materials Chemistry A, 2016, 4, 3068-3076.	5.2	477
168	Chemical and Phase Evolution of Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production. ACS Nano, 2016, 10, 624-632.	7.3	109
169	Platinum and hybrid polyanilineâ€“platinum surfaces for the electrocatalytic reduction of CO2. MRS Communications, 2015, 5, 319-325.	0.8	7
170	Polymer Electrolyte Membrane Electrolyzers Utilizing Nonâ€precious Moâ€based Hydrogen Evolution Catalysts. ChemSusChem, 2015, 8, 3512-3519.	3.6	51
171	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
172	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
173	Applications of ALD MnO to electrochemical water splitting. Physical Chemistry Chemical Physics, 2015, 17, 14003-14011.	1.3	44
174	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
175	Synthesis of thin film AuPd alloys and their investigation for electrocatalytic CO₂reduction. Journal of Materials Chemistry A, 2015, 3, 20185-20194.	5.2	116
176	Mapping Photoelectrochemical Current Distribution at Nanoscale Dimensions on Morphologically Controlled BiVO₄. Journal of Physical Chemistry Letters, 2015, 6, 3702-3707.	2.1	18
177	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
178	CoTiO_xCatalysts for the Oxygen Evolution Reaction. Journal of the Electrochemical Society, 2015, 162, H841-H846.	1.3	14
179	Electrooxidation of Alcohols with Electrode-Supported Transfer Hydrogenation Catalysts. ACS Catalysis, 2015, 5, 7343-7349.	5.5	10
180	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

#	Article	IF	Citations
181	Perfect Sunlight Absorption in Iron Oxide Photoanode. , 2014, , .		0
182	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
183	Photon Management for Near-Total Solar Absorption in Hematite Photoanodes. Materials Research Society Symposia Proceedings, 2014, 1670, 8.	0.1	1
184	Building an appropriate active-site motif into a hydrogen-evolution catalyst with thiomolybdate [Mo3S13]2â^' clusters. Nature Chemistry, 2014, 6, 248-253.	6.6	730
185	Modeling Practical Performance Limits of Photoelectrochemical Water Splitting Based on the Current State of Materials Research. ChemSusChem, 2014, 7, 1372-1385.	3.6	195
186	Nanostructured Manganese Oxide Supported onto Particulate Glassy Carbon as an Active and Stable Oxygen Reduction Catalyst in Alkaline-Based Fuel Cells. Journal of the Electrochemical Society, 2014, 161, D3105-D3112.	1.3	20
187	High Surface Area Transparent Conducting Oxide Electrodes with a Customizable Device Architecture. Chemistry of Materials, 2014, 26, 958-964.	3.2	15
188	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
189	Designing Active and Stable Silicon Photocathodes for Solar Hydrogen Production Using Molybdenum Sulfide Nanomaterials. Advanced Energy Materials, 2014, 4, 1400739.	10.2	158
190	Catalyzing the Hydrogen Evolution Reaction (HER) with Molybdenum Sulfide Nanomaterials. ACS Catalysis, 2014, 4, 3957-3971.	5.5	1,355
191	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, 89, .	1.1	66
192	Climbing the Activity Volcano: Coreâ€“Shell Ru@Pt Electrocatalysts for Oxygen Reduction. ChemElectroChem, 2014, 1, 67-71.	1.7	49
193	Insights into the electrocatalytic reduction of CO₂on metallic silver surfaces. Physical Chemistry Chemical Physics, 2014, 16, 13814-13819.	1.3	455
194	Nickelâ€“silver alloy electrocatalysts for hydrogen evolution and oxidation in an alkaline electrolyte. Physical Chemistry Chemical Physics, 2014, 16, 19250.	1.3	101
195	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
196	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
197	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
198	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

#	Article	IF	Citations
199	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. ACS Photonics, 2014, 1, 235-240.	3.2	76
200	Impedance-based study of capacitive porous carbon electrodes with hierarchical and bimodal porosity. Journal of Power Sources, 2013, 241, 266-273.	4.0	82
201	A Preciousâ€Metalâ€Free Regenerative Fuel Cell for Storing Renewable Electricity. Advanced Energy Materials, 2013, 3, 1545-1550.	10.2	80
202	Incident Photon-to-Current Efficiency and Photocurrent Spectroscopy. SpringerBriefs in Energy, 2013, , 87-97.	0.2	9
203	Benchmarking Heterogeneous Electrocatalysts for the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2013, 135, 16977-16987.	6.6	5,311
204	The Role of Heat Treatment in Enhanced Activity of Manganese Oxides for the Oxygen Reduction and Evolution Reactions. ECS Transactions, 2013, 58, 735-750.	0.3	17
205	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
206	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
207	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
208	Growth of Pt Nanowires by Atomic Layer Deposition on Highly Ordered Pyrolytic Graphite. Nano Letters, 2013, 13, 457-463.	4.5	86
209	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
210	Effect of Temperature Treatment on CoTiOx Catalyst for the Oxygen Evolution Reaction. ECS Transactions, 2013, 58, 285-291.	0.3	1
211	UV-Vis Spectroscopy. SpringerBriefs in Energy, 2013, , 49-62.	0.2	22
212	Effects of a New Electrochemical Cleaning Protocol on Ru@Pt Core-Shell ORR Catalysts. ECS Transactions, 2013, 58, 929-936.	0.3	5
213	PEC Characterization Flowchart. SpringerBriefs in Energy, 2013, , 45-47.	0.2	2
214	Flat-Band Potential Techniques. SpringerBriefs in Energy, 2013, , 63-85.	0.2	10
215	Experimental Considerations. SpringerBriefs in Energy, 2013, , 17-44.	0.2	2
216	2-Electrode Short Circuit and jâ€“V. SpringerBriefs in Energy, 2013, , 99-103.	0.2	0

#	Article	IF	Citations
217	Near Perfect Sunlight Absorption in 20nm-Thick Iron Oxide Photoanode Based on Core-Shell Nanocone Structure. , 2013, , .		0
218	Stability Testing. SpringerBriefs in Energy, 2013, , 115-118.	0.2	0
219	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
220	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
221	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
222	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
223	Engineering the surface structure of MoS2 toÂpreferentially expose active edge sites forÂelectrocatalysis. Nature Materials, 2012, 11, 963-969.	13.3	2,896
224	Mercury chemistry on brominated activated carbon. Fuel, 2012, 99, 188-196.	3.4	125
225	Investigation of Surface Oxidation Processes on Manganese Oxide Electrocatalysts Using Electrochemical Methods and Ex Situ X-ray Photoelectron Spectroscopy. Journal of the Electrochemical Society, 2012, 159, H782-H786.	1.3	29
226	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
227	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
228	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
229	Addressing the terawatt challenge: scalability in the supply of chemical elements for renewable energy. RSC Advances, 2012, 2, 7933.	1.7	618
230	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
231	New insights into the electrochemical reduction of carbon dioxide on metallic copper surfaces. Energy and Environmental Science, 2012, 5, 7050.	15.6	2,374
232	Branched TiO₂ Nanorods for Photoelectrochemical Hydrogen Production. Nano Letters, 2011, 11, 4978-4984.	4.5	843
233	Plasmon Enhanced Solar-to-Fuel Energy Conversion. Nano Letters, 2011, 11, 3440-3446.	4.5	456
234	Ex Situ Spectroscopy Study of Manganese Oxide Catalytic Surfaces under Reaction Conditions Relevant to Oxygen Reduction and Oxygen Evolution. ECS Transactions, 2011, 41, 1701-1707.	0.3	6

#	Article	IF	Citations
235	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
236	Coreâ€“shell MoO₃â€“MoS₂ Nanowires for Hydrogen Evolution: A Functional Design for Electrocatalytic Materials. Nano Letters, 2011, 11, 4168-4175.	4.5	1,099
237	Universality in Oxygen Evolution Electrocatalysis on Oxide Surfaces. ChemCatChem, 2011, 3, 1159-1165.	1.8	3,208
238	Computational high-throughput screening of electrocatalytic materials for hydrogen evolution. , 2010, , 280-284.		16
239	Monolithic III–V nanowire PV for photoelectrochemical hydrogen generation. , 2010, , .		0
240	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
241	Nanostructuring MoS 2 for photoelectrochemical water splitting. , 2010, , .		7
242	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
243	Nanostructured MoS2 for Solar Hydrogen Production. ECS Meeting Abstracts, 2010, , .	0.0	0
244	Alloys of platinum and early transition metals as oxygen reduction electrocatalysts. Nature Chemistry, 2009, 1, 552-556.	6.6	2,716
245	Combined spectroscopy and microscopy of supported MoS2 nanoparticles. Surface Science, 2009, 603, 1182-1189.	0.8	30
246	Dynamics of Surface Exchange Reactions Between Au and Pt for HER and HOR. Journal of the Electrochemical Society, 2009, 156, B273.	1.3	41
247	Electrocatalytic Activity of Goldâ^'Platinum Clusters for Low Temperature Fuel Cell Applications. Journal of Physical Chemistry C, 2009, 113, 5014-5024.	1.5	72
248	Hydrogen Evolution on Supported Incomplete Cubane-type [Mo₃S₄]⁴⁺ Electrocatalysts. Journal of Physical Chemistry C, 2008, 112, 17492-17498.	1.5	218
249	Hydrogen evolution on nano-particulate transition metal sulfides. Faraday Discussions, 2008, 140, 219-231.	1.6	732
250	Steady state oxygenreduction and cyclic voltammetry. Faraday Discussions, 2008, 140, 337-346.	1.6	218
251	Cyclic Voltammograms for H on Pt(111) and Pt(100) from First Principles. Physical Review Letters, 2007, 99, 126101.	2.9	189
252	Cyclic Voltammograms from First Principles. ECS Transactions, 2007, 11, 759-768.	0.3	2

#	Article	IF	Citations
253	Identification of Active Edge Sites for Electrochemical H ₂ Evolution from MoS ₂ Nanocatalysts. Science, 2007, 317, 100-102.	6.0	5,149
254	Computational high-throughput screening of electrocatalytic materials for hydrogen evolution. Nature Materials, 2006, 5, 909-913.	13.3	3,305
255	Low-Voltage Electrodeposition of Fullerol Thin Films from Aqueous Solutions. Journal of the Electrochemical Society, 2006, 153, C483.	1.3	5
256	Synthesis of Au nanoclusters supported upon a TiO2 nanotube array. Journal of Materials Research, 2005, 20, 1093-1096.	1.2	15
257	Automated Electrochemical Synthesis and Photoelectrochemical Characterization of Zn1-xCoxO Thin Films for Solar Hydrogen Production.. ChemInform, 2005, 36, no.	0.1	2
258	Combinatorial electrochemical synthesis and screening of Pt-WO3 catalysts for electro-oxidation of methanol. Review of Scientific Instruments, 2005, 76, 062227.	0.6	30
259	Automated electrochemical synthesis and characterization of TiO2supported Au nanoparticle electrocatalysts. Measurement Science and Technology, 2005, 16, 54-59.	1.4	38
260	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
261	Synthesis and Characterization of Ptâ^'WO3as Methanol Oxidation Catalysts for Fuel Cells. Journal of Physical Chemistry B, 2005, 109, 22958-22966.	1.2	201
262	Gas-Phase Catalysis by Micelle Derived Au Nanoparticles on Oxide Supports. Catalysis Letters, 2004, 95, 107-111.	1.4	67
263	Combinatorial Electrochemical Synthesis and Screening of Mesoporous ZnO for Photocatalysis. Macromolecular Rapid Communications, 2004, 25, 297-301.	2.0	98
264	Parallel Synthesis and Characterization of Photoelectrochemically and Electrochemically Active Tungstenâ€"Molybdenum Oxides.. ChemInform, 2004, 35, no.	0.1	0
265	Parallel synthesis and characterization of photoelectrochemically and electrochromically active tungstenâ€“molybdenum oxides. Chemical Communications, 2004, , 390-391.	2.2	24
266	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
267	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
268	Enhancement of Photocatalytic and Electrochromic Properties of Electrochemically Fabricated Mesoporous WO3 Thin Films. Advanced Materials, 2003, 15, 1269-1273.	11.1	450
269	A Cu2O/TiO2 heterojunction thin film cathode for photoelectrocatalysis. Solar Energy Materials and Solar Cells, 2003, 77, 229-237.	3.0	408
270	Synthesis of Tungsten Oxide on Copper Surfaces by Electroless Deposition. Chemistry of Materials, 2003, 15, 3411-3413.	3.2	19

#	ARTICLE	IF	CITATIONS
271	Catalytic Activity of Supported Au Nanoparticles Deposited from Block Copolymer Micelles. Journal of the American Chemical Society, 2003, 125, 7148-7149.	6.6	397
272	High-Throughput Screening System for Catalytic Hydrogen-Producing Materials. ACS Combinatorial Science, 2002, 4, 17-22.	3.3	65
273	Combinatorial Electrochemical Synthesis and Characterization of Tungsten-Based Mixed-Metal Oxides. ACS Combinatorial Science, 2002, 4, 563-568.	3.3	113
274	Controlled Electrodeposition of Nanoparticulate Tungsten Oxide. Nano Letters, 2002, 2, 831-834.	4.5	147
275	Automated synthesis and characterization of diverse libraries of macroporous alumina. Electrochimica Acta, 2001, 47, 553-557.	2.6	28