Peter Strasser

List of Publications by Year
in descending order

532	61,881	557 125	968 237
papers	citations	h-index	g-index

568	568	568	46105
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lattice-strain control of the activity in dealloyed coreâ€“shell fuel cell catalysts. Nature Chemistry, 2010, 2, 454-460.	14.3	2,571
2	Electrocatalytic Oxygen Evolution Reaction (OER) on Ru, Ir, and Pt Catalysts: A Comparative Study of Nanoparticles and Bulk Materials. ACS Catalysis, 2012, 2, 1765-1772.	11.7	2,116
3	The Mechanism of Water Oxidation: From Electrolysis via Homogeneous to Biological Catalysis. ChemCatChem, 2010, 2, 724-761.	3.8	1,535
4	Particle Size Effects in the Catalytic Electroreduction of CO₂ on Cu Nanoparticles. Journal of the American Chemical Society, 2014, 136, 6978-6986.	14.6	1,218
5	Compositional segregation in shaped Pt alloy nanoparticles and their structural behaviour during electrocatalysis. Nature Materials, 2013, 12, 765-771.	26.6	1,153
6	Understanding activity and selectivity of metal-nitrogen-doped carbon catalysts for electrochemical reduction of CO2. Nature Communications, 2017, 8, 944.	13.2	947
7	Highly selective plasma-activated copper catalysts for carbon dioxide reduction to ethylene. Nature Communications, 2016, 7, 12123.	13.2	945
8	Oxygen Evolution Reaction Dynamics, Faradaic Charge Efficiency, and the Active Metal Redox States of Niâ€“Fe Oxide Water Splitting Electrocatalysts. Journal of the American Chemical Society, 2016, 138, 5603-5614.	14.6	941
9	Electrocatalytic Oxygen Evolution Reaction in Acidic Environments â€“ Reaction Mechanisms and Catalysts. Advanced Energy Materials, 2017, 7, 1601275.	22.2	905
10	Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis. Nature Catalysis, 2019, 2, 304-313.	28.3	851
11	NiFeâ€Based (Oxy)hydroxide Catalysts for Oxygen Evolution Reaction in Nonâ€Acidic Electrolytes. Advanced Energy Materials, 2016, 6, 1600621.	22.2	804
12	Origin of floral asymmetry in Antirrhinum. Nature, 1996, 383, 794-799.	36.2	772
13	Electrocatalysis on Bimetallic Surfaces:â€‰ Modifying Catalytic Reactivity for Oxygen Reduction by Voltammetric Surface Dealloying. Journal of the American Chemical Society, 2007, 129, 12624-12625.	14.6	748
14	Reversible amorphization and the catalytically active state of crystalline Co3O4 during oxygen evolution. Nature Communications, 2015, 6, 8625.	13.2	716
15	Electrolysis of low-grade and saline surface water. Nature Energy, 2020, 5, 367-377.	29.7	711
16	Direct Electrolytic Splitting of Seawater: Opportunities and Challenges. ACS Energy Letters, 2019, 4, 933-942.	18.4	702
17	Nanostructured electrocatalysts with tunable activity and selectivity. Nature Reviews Materials, 2016, 1, .	40.2	701
18	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	13.2	677

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19	Mesoporous Nitrogen-Doped Carbon for the Electrocatalytic Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2012, 134, 4072-4075.	14.6	631
20	Electrochemical CO₂ Reduction: A Classification Problem. ChemPhysChem, 2017, 18, 3266-3273.	2.3	627
21	Exceptional Size-Dependent Activity Enhancement in the Electroreduction of CO₂ over Au Nanoparticles. Journal of the American Chemical Society, 2014, 136, 16473-16476.	14.6	621
22	The Stability Challenges of Oxygen Evolving Catalysts: Towards a Common Fundamental Understanding and Mitigation of Catalyst Degradation. Angewandte Chemie - International Edition, 2017, 56, 5994-6021.	14.8	620
23	Unification of Catalytic Water Oxidation and Oxygen Reduction Reactions: Amorphous Beat Crystalline Cobalt Iron Oxides. Journal of the American Chemical Society, 2014, 136, 17530-17536.	14.6	597
24	Molecular Insight in Structure and Activity of Highly Efficient, Low-Ir Irâ€“Ni Oxide Catalysts for Electrochemical Water Splitting (OER). Journal of the American Chemical Society, 2015, 137, 13031-13040.	14.6	593
25	Activityâ€“Selectivity Trends in the Electrochemical Production of Hydrogen Peroxide over Single-Site Metalâ€“Nitrogenâ€“Carbon Catalysts. Journal of the American Chemical Society, 2019, 141, 12372-12381.	14.6	566
26	A Highly Ordered Meso@Microporous Carbon-Supported Sulfur@Smaller Sulfur Coreâ€“Shell Structured Cathode for Liâ€“S Batteries. ACS Nano, 2014, 8, 9295-9303.	15.3	562
27	Tracking Catalyst Redox States and Reaction Dynamics in Niâ€“Fe Oxyhydroxide Oxygen Evolution Reaction Electrocatalysts: The Role of Catalyst Support and Electrolyte pH. Journal of the American Chemical Society, 2017, 139, 2070-2082.	14.6	554
28	Design Criteria, Operating Conditions, and Nickelâ€“Iron Hydroxide Catalyst Materials for Selective Seawater Electrolysis. ChemSusChem, 2016, 9, 962-972.	7.5	542
29	Metalâ€Doped Nitrogenated Carbon as an Efficient Catalyst for Direct CO₂ Electroreduction to CO and Hydrocarbons. Angewandte Chemie - International Edition, 2015, 54, 10758-10762.	14.8	526
30	Octahedral PtNi Nanoparticle Catalysts: Exceptional Oxygen Reduction Activity by Tuning the Alloy Particle Surface Composition. Nano Letters, 2012, 12, 5885-5889.	9.5	525
31	Key role of chemistry versus bias in electrocatalytic oxygen evolution. Nature, 2020, 587, 408-413.	36.2	492
32	Quantifying the density and utilization of active sites in non-precious metal oxygen electroreduction catalysts. Nature Communications, 2015, 6, 8618.	13.2	485
33	A unique oxygen ligand environment facilitates water oxidation in hole-doped IrNiOx coreâ€“shell electrocatalysts. Nature Catalysis, 2018, 1, 841-851.	28.3	468
34	Unified structural motifs of the catalytically active state of Co(oxyhydr)oxides during the electrochemical oxygen evolution reaction. Nature Catalysis, 2018, 1, 711-719.	28.3	461
35	Carbon as catalyst and support for electrochemical energy conversion. Carbon, 2014, 75, 5-42.	10.7	459
36	Ionomer distribution control in porous carbon-supported catalyst layers for high-power and low Pt-loaded proton exchange membrane fuel cells. Nature Materials, 2020, 19, 77-85.	26.6	449

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37	Controlling the selectivity of CO2 electroreduction on copper: The effect of the electrolyte concentration and the importance of the local pH. Catalysis Today, 2016, 260, 8-13.	4.9	438
38	Dealloyed Ptâ˜'Cu Coreâ˜'Shell Nanoparticle Electrocatalysts for Use in PEM Fuel Cell Cathodes. Journal of Physical Chemistry C, 2008, 112, 2770-2778.	3.3	433
39	Efficient Electrochemical Hydrogen Peroxide Production from Molecular Oxygen on Nitrogen-Doped Mesoporous Carbon Catalysts. ACS Catalysis, 2018, 8, 2844-2856.	11.7	410
40	Timing of surgery following SARSâ€CoVâ€2 infection: an international prospective cohort study. Anaesthesia, 2021, 76, 748-758.	3.9	400
41	Oxideâ€Supported IrNiO_x Coreâ€“Shell Particles as Efficient, Costâ€Effective, and Stable Catalysts for Electrochemical Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 2975-2979.	14.8	398
42	Reversible magnesium and aluminium ions insertion in cation-deficient anatase TiO2. Nature Materials, 2017, 16, 1142-1148.	26.6	390
43	A comparative perspective of electrochemical and photochemical approaches for catalytic H₂O₂ production. Chemical Society Reviews, 2020, 49, 6605-6631.	40.3	390
44	Efficient CO₂ to CO electrolysis on solid Niâ€“Nâ€“C catalysts at industrial current densities. Energy and Environmental Science, 2019, 12, 640-647.	32.2	379
45	Tuning the Catalytic Activity and Selectivity of Cu for CO₂ Electroreduction in the Presence of Halides. ACS Catalysis, 2016, 6, 2136-2144.	11.7	369
46	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. Nature Materials, 2018, 17, 827-833.	26.6	369
47	Record activity and stability of dealloyed bimetallic catalysts for proton exchange membrane fuel cells. Energy and Environmental Science, 2015, 8, 258-266.	32.2	362
48	The Achilles' heel of iron-based catalysts during oxygen reduction in an acidic medium. Energy and Environmental Science, 2018, 11, 3176-3182.	32.2	360
49	Coreâ€“Shell Compositional Fine Structures of Dealloyed Pt_xNi_{1â€“x} Nanoparticles and Their Impact on Oxygen Reduction Catalysis. Nano Letters, 2012, 12, 5423-5430.	9.5	355
50	Dealloyed binary PtM3 (M=Cu, Co, Ni) and ternary PtNi3M (M=Cu, Co, Fe, Cr) electrocatalysts for the oxygen reduction reaction: Performance in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2011, 196, 666-673.	8.0	354
51	Pt-Based Coreâ€“Shell Catalyst Architectures for Oxygen Fuel Cell Electrodes. Journal of Physical Chemistry Letters, 2013, 4, 3273-3291.	4.9	350
52	Size-Dependent Morphology of Dealloyed Bimetallic Catalysts: Linking the Nano to the Macro Scale. Journal of the American Chemical Society, 2012, 134, 514-524.	14.6	347
53	Efficient Oxygen Reduction Fuel Cell Electrocatalysis on Voltammetrically Dealloyed Ptâ€“Cuâ€“Co Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 8988-8991.	14.8	346
54	Efficient Oxygen Reduction Fuel Cell Electrocatalysis on Voltammetrically Dealloyed Ptâ€“Cuâ€“Co Nanoparticles. Angewandte Chemie, 2007, 119, 9146-9149.	2.1	339

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55	A CoFe2O4/graphene nanohybrid as an efficient bi-functional electrocatalyst for oxygen reduction and oxygen evolution. Journal of Power Sources, 2014, 250, 196-203.	8.0	326
56	High loading of single atomic iron sites in Feâ€“NC oxygen reduction catalysts for proton exchange membrane fuel cells. Nature Catalysis, 2022, 5, 311-323.	28.3	324
57	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. Nature Materials, 2020, 19, 1215-1223.	26.6	312
58	Mechanistic reaction pathways of enhanced ethylene yields during electroreduction of CO2â€“CO co-feeds on Cu and Cu-tandem electrocatalysts. Nature Nanotechnology, 2019, 14, 1063-1070.	30.5	304
59	N-, P-, and S-doped graphene-like carbon catalysts derived from onium salts with enhanced oxygen chemisorption for Zn-air battery cathodes. Applied Catalysis B: Environmental, 2019, 241, 442-451.	20.7	303
60	Electrochemical Reduction of CO₂ on Metal-Nitrogen-Doped Carbon Catalysts. ACS Catalysis, 2019, 9, 7270-7284.	11.7	301
61	Noble Metal-Free Hydrazine Fuel Cell Catalysts: EPOC Effect in Competing Chemical and Electrochemical Reaction Pathways. Journal of the American Chemical Society, 2011, 133, 5425-5431.	14.6	299
62	Solarâ€induced chlorophyll fluorescence is strongly correlated with terrestrial photosynthesis for a wide variety of biomes: First global analysis based on OCOâ€2 and flux tower observations. Global Change Biology, 2018, 24, 3990-4008.	9.7	287
63	IrOx core-shell nanocatalysts for cost- and energy-efficient electrochemical water splitting. Chemical Science, 2014, 5, 2955-2963.	7.8	283
64	Alloy Nanocatalysts for the Electrochemical Oxygen Reduction (ORR) and the Direct Electrochemical Carbon Dioxide Reduction Reaction (CO₂RR). Advanced Materials, 2019, 31, e1805617.	24.3	281
65	Understanding and Controlling Nanoporosity Formation for Improving the Stability of Bimetallic Fuel Cell Catalysts. Nano Letters, 2013, 13, 1131-1138.	9.5	266
66	Efficient direct seawater electrolysers using selective alkaline NiFe-LDH as OER catalyst in asymmetric electrolyte feeds. Energy and Environmental Science, 2020, 13, 1725-1729.	32.2	260
67	High-Performance Oxygen Redox Catalysis with Multifunctional Cobalt Oxide Nanochains: Morphology-Dependent Activity. ACS Catalysis, 2015, 5, 2017-2027.	11.7	257
68	Rh-Doped Ptâ€“Ni Octahedral Nanoparticles: Understanding the Correlation between Elemental Distribution, Oxygen Reduction Reaction, and Shape Stability. Nano Letters, 2016, 16, 1719-1725.	9.5	254
69	Oxidation of biomass derived 5-hydroxymethylfurfural using heterogeneous and electrochemical catalysis. Catalysis Today, 2012, 195, 144-154.	4.9	253
70	Electrochemical water splitting by layered and 3D cross-linked manganese oxides: correlating structural motifs and catalytic activity. Energy and Environmental Science, 2013, 6, 2745.	32.2	253
71	Recent Advances in Nonâ€Noble Bifunctional Oxygen Electrocatalysts toward Largeâ€Scale Production. Advanced Functional Materials, 2020, 30, 2000503.	16.5	252
72	Stability of nanostructured iridium oxide electrocatalysts during oxygen evolution reaction in acidic environment. Electrochemistry Communications, 2014, 48, 81-85.	4.8	245

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73	MuSE: accounting for tumor heterogeneity using a sample-specific error model improves sensitivity and specificity in mutation calling from sequencing data. Genome Biology, 2016, 17, 178.	9.2	241
74	In-Plane Carbon Lattice-Defect Regulating Electrochemical Oxygen Reduction to Hydrogen Peroxide Production over Nitrogen-Doped Graphene. ACS Catalysis, 2019, 9, 1283-1288.	11.7	239
75	Cobaltâ€“Manganeseâ€Based Spinels as Multifunctional Materials that Unify Catalytic Water Oxidation and Oxygen Reduction Reactions. ChemSusChem, 2015, 8, 164-171.	7.5	237
76	High Throughput Experimental and Theoretical Predictive Screening of Materials â^' A Comparative Study of Search Strategies for New Fuel Cell Anode Catalysts. Journal of Physical Chemistry B, 2003, 107, 11013-11021.	2.7	233
77	Activity of dealloyed PtCo3 and PtCu3 nanoparticle electrocatalyst for oxygen reduction reaction in polymer electrolyte membrane fuel cell. Journal of Power Sources, 2011, 196, 5240-5249.	8.0	232
78	Establishing reactivity descriptors for platinum group metal (PGM)-free Feâ€“Nâ€“C catalysts for PEM fuel cells. Energy and Environmental Science, 2020, 13, 2480-2500.	32.2	232
79	Phosphorus-doped porous carbons as efficient electrocatalysts for oxygen reduction. Journal of Materials Chemistry A, 2013, 1, 9889.	10.5	230
80	An efficient bifunctional two-component catalyst for oxygen reduction and oxygen evolution in reversible fuel cells, electrolyzers and rechargeable air electrodes. Energy and Environmental Science, 2016, 9, 2020-2024.	32.2	230
81	PtCu₃, PtCu and Pt₃Cu Alloy Nanoparticle Electrocatalysts for Oxygen Reduction Reaction in Alkaline and Acidic Media. Journal of the Electrochemical Society, 2012, 159, B444-B454.	2.9	222
82	Noble-Metal-Free Electrocatalysts with Enhanced ORR Performance by Task-Specific Functionalization of Carbon using Ionic Liquid Precursor Systems. Journal of the American Chemical Society, 2014, 136, 14486-14497.	14.6	222
83	Hierarchically Structured Nanomaterials for Electrochemical Energy Conversion. Angewandte Chemie - International Edition, 2016, 55, 122-148.	14.8	222
84	Electrochemical activity and stability of dealloyed Ptâ€“Cu and Ptâ€“Cuâ€“Co electrocatalysts for the oxygen reduction reaction (ORR). Journal of Power Sources, 2009, 186, 261-267.	8.0	219
85	Morphology and mechanism of highly selective Cu(II) oxide nanosheet catalysts for carbon dioxide electroreduction. Nature Communications, 2021, 12, 794.	13.2	212
86	Electrocatalytic Oxygen Evolution on Iridium Oxide: Uncovering Catalyst-Substrate Interactions and Active Iridium Oxide Species. Journal of the Electrochemical Society, 2014, 161, F876-F882.	2.9	208
87	Comparative Study of the Electrocatalytically Active Surface Areas (ECSAs) of Pt Alloy Nanoparticles Evaluated by Hupd and CO-stripping voltammetry. Electrocatalysis, 2014, 5, 408-418.	2.9	205
88	Direct Electrolytic Splitting of Seawater: Activity, Selectivity, Degradation, and Recovery Studied from the Molecular Catalyst Structure to the Electrolyzer Cell Level. Advanced Energy Materials, 2018, 8, 1800338.	22.2	203
89	Electrochemical CO₂ Reduction: Classifying Cu Facets. ACS Catalysis, 2019, 9, 7894-7899.	11.7	200
90	Unified mechanistic understanding of CO2 reduction to CO on transition metal and single atom catalysts. Nature Catalysis, 2021, 4, 1024-1031.	28.3	199

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91	Voltammetric surface dealloying of Pt bimetallic nanoparticles: an experimental and DFT computational analysis. Physical Chemistry Chemical Physics, 2008, 10, 3670.	2.9	196
92	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie - International Edition, 2021, 60, 14446-14457.	14.8	192
93	Structure-Activity-Stability Relationships of Ptâ^'Co Alloy Electrocatalysts in Gas-Diffusion Electrode Layers. Journal of Physical Chemistry C, 2007, 111, 3744-3752.	3.3	190
94	Uncovering the prominent role of metal ions in octahedral versus tetrahedral sites of cobaltâ€"zinc oxide catalysts for efficient oxidation of water. Journal of Materials Chemistry A, 2016, 4, 10014-10022.	10.5	180
95	Mechanistic classification of electrochemical oscillators â€" an operational experimental strategy. Journal of Electroanalytical Chemistry, 1999, 478, 50-66.	3.9	177
96	pH Effects on the Selectivity of the Electrocatalytic CO₂ Reduction on Graphene-Embedded Feâ€"Nâ€"C Motifs: Bridging Concepts between Molecular Homogeneous and Solid-State Heterogeneous Catalysis. ACS Energy Letters, 2018, 3, 812-817.	18.4	177
97	Structure of Dealloyed PtCu₃ Thin Films and Catalytic Activity for Oxygen Reduction. Chemistry of Materials, 2010, 22, 4712-4720.	7.1	175
98	Controlling Catalytic Selectivities during CO₂ Electroreduction on Thin Cu Metal Overlayers. Journal of Physical Chemistry Letters, 2013, 4, 2410-2413.	4.9	173
99	Molecular Nitrogenâ€"Carbon Catalysts, Solid Metal Organic Framework Catalysts, and Solid Metal/Nitrogenâ€Doped Carbon (MNC) Catalysts for the Electrochemical CO₂ Reduction. Advanced Energy Materials, 2018, 8, 1703614.	22.2	168
100	Structure, Activity, and Faradaic Efficiency of Nitrogenâ€Doped Porous Carbon Catalysts for Direct Electrochemical Hydrogen Peroxide Production. ChemSusChem, 2018, 11, 3388-3395.	7.5	166
101	Tantalum Nitride Nanorod Arrays: Introducing Niâ€"Fe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. Chemistry of Materials, 2015, 27, 2360-2366.	7.1	163
102	Activity, stability and degradation of multi walled carbon nanotube (MWCNT) supported Pt fuel cell electrocatalysts. Physical Chemistry Chemical Physics, 2010, 12, 15251.	2.9	160
103	Bifunctional anode catalysts for direct methanol fuel cells. Energy and Environmental Science, 2012, 5, 8335.	32.2	160
104	Mesoporous IrO₂ Films Templated by PEO-PB-PEO Block-Copolymers: Self-Assembly, Crystallization Behavior, and Electrocatalytic Performance. Chemistry of Materials, 2011, 23, 3201-3209.	7.1	158
105	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Ptâ€"Niâ€"Co Alloy Nanocatalysts. Nano Letters, 2015, 15, 7473-7480.	9.5	158
106	Real-time imaging of activation and degradation of carbon supported octahedral Ptâ€"Ni alloy fuel cell catalysts at the nanoscale usingin situelectrochemical liquid cell STEM. Energy and Environmental Science, 2019, 12, 2476-2485.	32.2	158
107	Electrocatalytic CO₂ Reduction on CuO_x Nanocubes: Tracking the Evolution of Chemical State, Geometric Structure, and Catalytic Selectivity using Operando Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 17974-17983.	14.8	157
108	Advancements in cathode catalyst and cathode layer design for proton exchange membrane fuel cells. Nature Communications, 2021, 12, 5984.	13.2	153

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109	Oxygen Electroreduction on PtCo₃, PtCo and Pt₃Co Alloy Nanoparticles for Alkaline and Acidic PEM Fuel Cells. Journal of the Electrochemical Society, 2012, 159, B394-B405.	2.9	152
110	Bimetallic Ru Electrocatalysts for the OER and Electrolytic Water Splitting in Acidic Media. Electrochemical and Solid-State Letters, 2010, 13, B36.	2.3	151
111	Unraveling Mechanistic Reaction Pathways of the Electrochemical CO₂ Reduction on Feâ€“Nâ€“C Single-Site Catalysts. ACS Energy Letters, 2019, 4, 1663-1671.	18.4	150
112	Tuning the Electrocatalytic Oxygen Reduction Reaction Activity and Stability of Shape-Controlled Ptâ€“Ni Nanoparticles by Thermal Annealing â^' Elucidating the Surface Atomic Structural and Compositional Changes. Journal of the American Chemical Society, 2017, 139, 16536-16547.	14.6	149
113	Experimental Activity Descriptors for Iridium-Based Catalysts for the Electrochemical Oxygen Evolution Reaction (OER). ACS Catalysis, 2019, 9, 6653-6663.	11.7	147
114	Free Electrons to Molecular Bonds and Back: Closing the Energetic Oxygen Reduction (ORR)â€“Oxygen Evolution (OER) Cycle Using Coreâ€“Shell Nanoelectrocatalysts. Accounts of Chemical Research, 2016, 49, 2658-2668.	16.6	146
115	Dealloyed Pt-based core-shell oxygen reduction electrocatalysts. Nano Energy, 2016, 29, 166-177.	16.5	145
116	Nanostructured Manganese Oxide Supported on Carbon Nanotubes for Electrocatalytic Water Splitting. ChemCatChem, 2012, 4, 851-862.	3.8	143
117	Nitrogen- and Phosphorus-Doped Biocarbon with Enhanced Electrocatalytic Activity for Oxygen Reduction. ACS Catalysis, 2015, 5, 920-927.	11.7	141
118	Preparation of Mesoporous Sbâ€, Fâ€, and Inâ€Doped SnO₂ Bulk Powder with High Surface Area for Use as Catalyst Supports in Electrolytic Cells. Advanced Functional Materials, 2015, 25, 1074-1081.	16.5	134
119	Iridium single atoms incorporated in Co3O4 efficiently catalyze the oxygen evolution in acidic conditions. Nature Communications, 2022, 13, .	13.2	134
120	Deconvolution of Utilization, Site Density, and Turnover Frequency of Feâ€“Nitrogenâ€“Carbon Oxygen Reduction Reaction Catalysts Prepared with Secondary N-Precursors. ACS Catalysis, 2018, 8, 1640-1647.	11.7	133
121	The chemical identity, state and structure of catalytically active centers during the electrochemical CO₂ reduction on porous Feâ€“nitrogenâ€“carbon (Feâ€“Nâ€“C) materials. Chemical Science, 2018, 9, 5064-5073.	7.8	133
122	The Role of the Copper Oxidation State in the Electrocatalytic Reduction of CO₂ into Valuable Hydrocarbons. ACS Sustainable Chemistry and Engineering, 2019, 7, 1485-1492.	6.9	133
123	Tuning Catalytic Selectivity at the Mesoscale via Interparticle Interactions. ACS Catalysis, 2016, 6, 1075-1080.	11.7	132
124	Electrochemical processes on solid shaped nanoparticles with defined facets. Chemical Society Reviews, 2018, 47, 715-735.	40.3	132
125	Oscillatory instabilities during formic acid oxidation on Pt(100), Pt(110) and Pt(111) under potentiostatic control. I. Experimental. Journal of Chemical Physics, 1997, 107, 979-990.	3.1	128
126	Long-Range Segregation Phenomena in Shape-Selected Bimetallic Nanoparticles: Chemical State Effects. ACS Nano, 2013, 7, 9195-9204.	15.3	128

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127	Efficient and Stable Low Iridium Loaded Anodes for PEM Water Electrolysis Made Possible by Nanofiber Interlayers. ACS Applied Energy Materials, 2020, 3, 8276-8284.	5.3	126
128	Indiscrete metal/metal-N-C synergic active sites for efficient and durable oxygen electrocatalysis toward advanced Zn-air batteries. Applied Catalysis B: Environmental, 2020, 272, 118967.	20.7	126
129	Single site porphyrine-like structures advantages over metals for selective electrochemical CO2 reduction. Catalysis Today, 2017, 288, 74-78.	4.9	123
130	In Situ Observation of Bimetallic Alloy Nanoparticle Formation and Growth Using High-Temperature XRD. Chemistry of Materials, 2011, 23, 2159-2165.	7.1	120
131	MnCo₂O₄ Anchored on P-Doped Hierarchical Porous Carbon as an Electrocatalyst for High-Performance Rechargeable Liâ€“O₂ Batteries. ACS Catalysis, 2015, 5, 4890-4896.	11.7	116
132	Current challenges related to the deployment of shape-controlled Pt alloy oxygen reduction reaction nanocatalysts into low Pt-loaded cathode layers of proton exchange membrane fuel cells. Current Opinion in Electrochemistry, 2019, 18, 61-71.	5.2	115
133	Oscillatory instabilities during formic acid oxidation on Pt(100), Pt(110) and Pt(111) under potentiostatic control. II. Model calculations. Journal of Chemical Physics, 1997, 107, 991-1003.	3.1	114
134	Electrocatalytic hydrogen peroxide formation on mesoporous non-metal nitrogen-doped carbon catalyst. Journal of Energy Chemistry, 2016, 25, 251-257.	13.4	114
135	Activity, Stability, and Degradation Mechanisms of Dealloyed PtCu₃ and PtCo₃ Nanoparticle Fuel Cell Catalysts. ChemCatChem, 2011, 3, 1805-1813.	3.8	113
136	Stability of Dealloyed Porous Pt/Ni Nanoparticles. ACS Catalysis, 2015, 5, 5000-5007.	11.7	113
137	Iridium Oxide Coatings with Templated Porosity as Highly Active Oxygen Evolution Catalysts: Structureâ€Activity Relationships. ChemSusChem, 2015, 8, 1908-1915.	7.5	113
138	Electrochemical Approaches toward CO₂ Capture and Concentration. ACS Catalysis, 2020, 10, 13058-13074.	11.7	112
139	Coreâ€“Shell and Nanoporous Particle Architectures and Their Effect on the Activity and Stability of Pt ORR Electrocatalysts. Topics in Catalysis, 2014, 57, 236-244.	3.0	109
140	Controlling Near-Surface Ni Composition in Octahedral PtNi(Mo) Nanoparticles by Mo Doping for a Highly Active Oxygen Reduction Reaction Catalyst. Nano Letters, 2019, 19, 6876-6885.	9.5	107
141	Formation and Analysis of Coreâ€“Shell Fine Structures in Pt Bimetallic Nanoparticle Fuel Cell Electrocatalysts. Journal of Physical Chemistry C, 2012, 116, 19073-19083.	3.3	106
142	Size-Controlled Synthesis of Colloidal Silver Nanoparticles Based on Mechanistic Understanding. Chemistry of Materials, 2013, 25, 4679-4689.	7.1	104
143	Ethanol Electro-Oxidation on Ternary Platinumâ€“Rhodiumâ€“Tin Nanocatalysts: Insights in the Atomic 3D Structure of the Active Catalytic Phase. ACS Catalysis, 2014, 4, 1859-1867.	11.7	103
144	On the faradaic selectivity and the role of surface inhomogeneity during the chlorine evolution reaction on ternary Tiâ€“Ruâ€“Ir mixed metal oxide electrocatalysts. Physical Chemistry Chemical Physics, 2014, 16, 13741-13747.	2.9	102

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145	Sizeâ€Controlled Synthesis of Subâ€10 nm PtNi₃ Alloy Nanoparticles and their Unusual Volcanoâ€Shaped Size Effect on ORR Electrocatalysis. Small, 2016, 12, 3189-3196.	11.2	102
146	In SituStudy of Atomic Structure Transformations of Ptâ€“Ni Nanoparticle Catalysts during Electrochemical Potential Cycling. ACS Nano, 2013, 7, 5666-5674.	15.3	101
147	Toward Platinum Group Metal-Free Catalysts for Hydrogen/Air Proton-Exchange Membrane Fuel Cells. Johnson Matthey Technology Review, 2018, 62, 231-255.	1.2	101
148	Catalysts by Platonic design. Science, 2015, 349, 379-380.	20.9	99
149	A comparison of rotating disc electrode, floating electrode technique and membrane electrode assembly measurements for catalyst testing. Journal of Power Sources, 2018, 392, 274-284.	8.0	99
150	Competitive CO and CO2 methanation over supported noble metal catalysts in high throughput scanning mass spectrometer. Applied Catalysis A: General, 2005, 296, 30-48.	4.6	98
151	High crystallinity design of Ir-based catalysts drives catalytic reversibility for water electrolysis and fuel cells. Nature Communications, 2021, 12, 4271.	13.2	98
152	Dealloyed Core-Shell Fuel Cell Electrocatalysts. Reviews in Chemical Engineering, 2009, 25, .	4.8	96
153	Activity, Structure and Degradation of Dealloyed PtNi₃Nanoparticle Electrocatalyst for the Oxygen Reduction Reaction in PEMFC. Journal of the Electrochemical Society, 2011, 159, B24-B33.	2.9	94
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469	Une Â«ÂhumanitÃ© inconcevableÂÂ» Ã venirÂ: LÃ©vi-Strauss dÃ©mographe. Diogenes, 2012, 238, 106.	0.1	0
470	Reoperation for recurrence and complications after nissen fundoplication. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2012, 73, 527-531.	0.0	0
471	Synthesis of Homogeneous Distributed Nanoparticles Using a Fluidized Bed Reactor. ECS Meeting Abstracts, 2019, , .	0.0	0
472	High-Rate Electrochemical Reduction of CO2 to C2-3 Products Under Neutral, Aqueous Condition, Tracing the Evolution of Phase and Morphology of Cu2o Nanocubes Towards Rational Catalyst Design. ECS Meeting Abstracts, 2019, , .	0.0	0
473	Online Carbon Corrosion Analysis of a Novel, Alloyed PtTi/C in PEM Fuel Cells Using a Non-Dispersive-Infrared System. ECS Meeting Abstracts, 2019, , .	0.0	0
474	High Performance Fuel Cell Catalysts Synthesized By Fe Metalation of Nitrogen Doped Carbons Derived from Metal Organic Framework ZIF-8. ECS Meeting Abstracts, 2019, , .	0.0	0
475	Electrochemical Conversion of CO2 into Hydrocarbons at Industrial Current Densities on Shaped Copper-oxide Gas Diffusion Electrodes. , 0, , .		0
476	(Invited) First Principles Studies of Oxygen Cycle Electrocatalysis: Multifunctional Materials and Reactivity Trends. ECS Meeting Abstracts, 2020, MA2020-01, 1522-1522.	0.0	0
477	(Invited) Pt Alloy Octahedral Nanoparticle Catalysts from Screening Studies to Fuel Cell Measurements. ECS Meeting Abstracts, 2021, MA2021-02, 1192-1192.	0.0	0
478	A H2O2 PEM Electrolyser with Continuous Online Spectrophotometric Product Detection: Load Flexibility Studies. ECS Meeting Abstracts, 2021, MA2021-02, 1265-1265.	0.0	0
479	Mechanistic Studies of the Electrochemical CO2 Reduction on Single Site, Metallic and Hybrid Electrocatalysts. , 0, , .		0
480	Operando Studies of Hole-Doped IrNiOx core-shell electrocatalysts for Water Oxidation in acidic Environment. , 0, , .		0
481	Electrochemical Conversion of CO2 into Hydrocarbons at Industrial Current Densities on Shaped Copper-oxide Gas Diffusion Electrodes. , 0, , .		0
482	Effect of Global Fuel Starvation on Reversal Tolerant Anode Materials â€“ Pulsed Versus Continuous Cell Reversal Events. ECS Meeting Abstracts, 2020, MA2020-02, 2338-2338.	0.0	0
483	First Principles Analysis of Oxygen Cycle Electrocatalysis: Multifunctional Materials and Reactivity Trends. ECS Meeting Abstracts, 2020, MA2020-02, 2487-2487.	0.0	0
484	Ternary Pt Alloy Catalysts and Carbon Modified Supports for Low Pt Loaded Fuel Cell Cathodes. ECS Meeting Abstracts, 2020, MA2020-02, 2320-2320.	0.0	0
485	(Invited) Structural and Mechanistic Details on the Oxygen Evolution Reaction on Nife Layered Double Hydroxide and Ni(OH)2. ECS Meeting Abstracts, 2020, MA2020-02, 3256-3256.	0.0	0
486	(Keynote) Mechanistic Studies of the Electrochemical CO₂ Reduction on Single Site, Metallic and Hybrid Electrocatalysts. ECS Meeting Abstracts, 2020, MA2020-02, 3203-3203.	0.0	0

#	Article	IF	Citations
487	Catalytically-Active Phases and Reaction Mechanism of Ni-Based and Co-Based Layered Double Hydroxides for the Oxygen Evolution Reaction. ECS Meeting Abstracts, 2022, MA2022-01, 1368-1368.	0.0	0
488	(Invited) Understanding and Tuning the Cell Reversal Tolerance of PEM Fuel Cell Anodes: Application-Relevant Design Parameters for Precious Metals Catalysts. ECS Meeting Abstracts, 2022, MA2022-02, 1538-1538.	0.0	0
489	Intrinsic Catalytic Activity and Active Phase for Oxygen Evolution in Layered Double Hydroxide Electrocatalysts. ECS Meeting Abstracts, 2022, MA2022-02, 1870-1870.	0.0	0
490	High Power Density Automotive Membrane Electrode Assemblies. ECS Meeting Abstracts, 2022, MA2022-02, 2560-2560.	0.0	0
491	Electroreduction of CO ₂ on Au(310)@Cu Highâ€index Facets. Angewandte Chemie, 2023, 135, .	2.1	0
492	A Life-Cycle of Ni in Proton Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2023, MA2023-01, 2277-2277.	0.0	0
493	Nife LDH: From Molecular Understanding to Highly Active Single Cell Measurements. ECS Meeting Abstracts, 2023, MA2023-01, 2064-2064.	0.0	0
494	Structural Transformations in Ni (Oxy)Hydroxide Host Structures Under Operating Conditions for Oxygen Evolution Electrocatalysts. ECS Meeting Abstracts, 2023, MA2023-01, 2062-2062.	0.0	0
495	Catalyst Support Interactions of Highly Active Nife-LDH Towards the Implementation in Photoelectrochemical and Sea-Water Based Water Splitting Technologies. ECS Meeting Abstracts, 2023, MA2023-01, 2195-2195.	0.0	0
496	Teflon-Based Gas Diffusion Electrode with a Novel Current Collector Concept for Scalable Highly Efficient CO₂Reduction Electrolyzers. ECS Meeting Abstracts, 2023, MA2023-01, 1742-1742.	0.0	0
497	(Invited) Ir-Based Catalysts for the Electrochemical Oxygen Evolution Reaction in Acidic Environments. ECS Meeting Abstracts, 2023, MA2023-01, 2025-2025.	0.0	0
498	Design of Noble-Metal-Free Membrane Electrode Assemblies Based on Metal Chalcogenides for Electrochemical Hydrogen Production Via Alkaline Seawater Electrolysis. ECS Meeting Abstracts, 2023, MA2023-01, 2060-2060.	0.0	0
499	Ir_xNb_{1-X}O₂ Mixed Metal Oxides As Anode Catalyst for PEM Electrolysis: From Fundamentals to Application. ECS Meeting Abstracts, 2023, MA2023-01, 2043-2043.	0.0	0
500	Efficient Ni-N-C Gas Diffusion Electrodes for Near Neutral and Acidic CO₂ Reduction in a Zero-Gap Configuration. ECS Meeting Abstracts, 2023, MA2023-01, 1721-1721.	0.0	0
501	Electrochemical CO₂ Reduction to Ethylene Using Coupled Tandem Electrolyzers. ECS Meeting Abstracts, 2023, MA2023-01, 1716-1716.	0.0	0
502	(Keynote) Electrochemical CO₂ Reduction on NiNC Single Metal Atom Catalysts Under Alkaline to Acidic pH Conditions. ECS Meeting Abstracts, 2023, MA2023-01, 2557-2557.	0.0	0
503	Fundamental Insights into Reaction Centers and Catalytic Mechanisms of Ni- and Co-Based Layered Oxyhydroxides for the Oxygen Evolution Reaction. ECS Meeting Abstracts, 2023, MA2023-01, 1965-1965.	0.0	0
504	Iridium Deposited on Niobium-Doped Titanium Dioxide (NbTiO) for High-Stability and Effective Oxygen Evolution Reaction (OER) Catalyst in Acidic Environment. ECS Meeting Abstracts, 2023, MA2023-01, 2047-2047.	0.0	0

#	Article	IF	Citations
505	(Invited) Metal Oxide Nanoparticles for Stable Alkaline Oxygen Evolution Reaction in an Anion Exchange Membrane Electrolyser Cell. ECS Meeting Abstracts, 2023, MA2023-02, 2432-2432.	0.0	0
506	Operando x-Ray Absorption Spectroscopy Investigation of Secondary Metal Doping into Iron-Nitrogen-Carbon Catalysts for Oxygen Electroreduction. ECS Meeting Abstracts, 2023, MA2023-02, 2676-2676.	0.0	0
507	Fe-N-C Oxygen Reduction Catalysts Via Chemical Vapor Deposition in Fluidized Bed Reactor. ECS Meeting Abstracts, 2023, MA2023-02, 1941-1941.	0.0	0
508	A New Catalyst System for the Oxygen Reduction Reaction (ORR) at Fuel Cell Cathodes: P-Block Precious Group Metal-Free Tin and Nitrogen-Doped Carbon (SnNC) Catalyst. ECS Meeting Abstracts, 2023, MA2023-02, 1943-1943.	0.0	0
509	Carbon Corrosion Behavior of Carbon Support Materials for PGM-Based Catalysts in PEM Fuel Cells. ECS Meeting Abstracts, 2023, MA2023-02, 1982-1982.	0.0	0
510	(ECS Carl Wagner Memorial Award) Free Electrons to Molecular Bonds and Back - The Dark Side of Solar Fuels and Chemicals. ECS Meeting Abstracts, 2023, MA2023-02, 2119-2119.	0.0	0
511	Enhancing the Hydrogen-Air Fuel Cell Performance of Octahedral Ptni Nanoalloys with Rational Design of Dopants, Layering and Support in the PEM Fuel Cells. ECS Meeting Abstracts, 2023, MA2023-02, 1993-1993.	0.0	0
512	Meta-kinks are key to binder performance of poly(arylene piperidinium) ionomers for alkaline membrane water electrolysis using non-noble metal catalysts. Journal of Materials Chemistry A, 2024, 12, 7826-7836.	10.5	0
513	Integration of Multijunction Absorbers and Catalysts for Efficient Solarâ€Driven Artificial Leaf Structures: A Physical and Materials Science Perspective. Solar Rrl, 2024, 8, .	6.0	0
514	Electrochemical CO₂ Activation and Valorization on Metallic Copper and Carbonâ€Embedded Nâ€Coordinated Single Metal MNC Catalysts. Angewandte Chemie, 2024, 136, .	2.1	0
515	Confined microemulsions: pore diameter induced change of the phase behavior. RSC Advances, 2024, 14, 12735-12741.	3.7	0
516	Integration of Multijunction Absorbers and Catalysts for Efficient Solarâ€Driven Artificial Leaf Structures: A Physical and Materials Science Perspective. Solar Rrl, 2024, 8, .	6.0	0
517	Robots are both anthropomorphized and dehumanized when harmed intentionally. Communications Psychology, 2024, 2, .	0.0	0
518	All Platinum-Group-Metal-Free Alkaline Exchange Membrane Water Electrolyzers Using Direct Hydrothermal Catalyst Deposition on Raney Ni Substrate. ACS Applied Energy Materials, 0, , .	5.3	0
519	Synthetic design of active and stable bimetallic PtTi nanoparticle electrocatalysts for efficient oxygen reduction at fuel cell cathodes. Journal of Materials Chemistry A, 0, , .	10.5	0
520	Intrinsic Activity and Ni-O-Fe Catalytic Active Site in Ni-Based (Oxy)Hydroxides for the Oxygen Evolution Reaction. ECS Meeting Abstracts, 2024, MA2024-01, 1829-1829.	0.0	0
521	Scale-up of PTFE-Based Gas Diffusion Electrodes from Lab Scale to Stack Level Using Polymer-Coated Current Collectors. ECS Meeting Abstracts, 2024, MA2024-01, 2186-2186.	0.0	0
522	CO₂ Reduction in a Bio Mass-Paired Systems for the Production of e-Chemicals. ECS Meeting Abstracts, 2024, MA2024-01, 2963-2963.	0.0	0

#	Article	IF	Citations
523	(Invited) Chemical Kinetic Method for Active-Site Quantification in Fe-N-C Catalysts and Correlation with Molecular Probe and Spectroscopic Site-Counting Methods. ECS Meeting Abstracts, 2024, MA2024-01, 2068-2068.	0.0	0
524	AEM Water Electrolysis with Ni-Based Catalysts and Tailored Poly(arylene piperidinium) Materials for Improved Stability. ECS Meeting Abstracts, 2024, MA2024-01, 3097-3097.	0.0	0
525	(Invited) OER Active Phases, Catalytic Mechanism and Reaction Centers of Ni (oxy)Hydroxide with and without Fe Impurities. ECS Meeting Abstracts, 2024, MA2024-01, 1828-1828.	0.0	0
526	(Invited) Design Principles and Operation of PEM Electrolyzers for Power-to-Gas Technologies. ECS Meeting Abstracts, 2024, MA2024-01, 1690-1690.	0.0	0
527	Efficient Ni-NC Gas Diffusion Electrodes for CO₂ Electrolyzer with High Utilization Efficiencies and Single Pass Conversions Towards CO. ECS Meeting Abstracts, 2024, MA2024-01, 2133-2133.	0.0	0
528	(Invited) Structural Transformations of OER Catalysts during Activation and Operation. ECS Meeting Abstracts, 2024, MA2024-01, 1671-1671.	0.0	0
529	In situ p-block protective layer plating in carbonate-based electrolytes enables stable cell cycling in anode-free lithium batteries. Nature Materials, 0, , .	26.6	0
530	Local ionic transport enables selective PGM-free bipolar membrane electrode assembly. Nature Communications, 2024, 15, .	13.2	0
531	Oxygen Reduction Reaction Activity and Stability of Shaped Metal-Doped PtNi Electrocatalysts Evaluated in Gas Diffusion Electrode Half-Cells. ACS Applied Materials & Interfaces, 2024, 16, 52406-52413.	8.3	0
532	Origins of Nanoalloy Catalysts Degradation during Membrane Electrode Assembly Fabrication. ACS Energy Letters, 2024, 9, 5251-5258.	18.4	0