Peter Strasser

List of Publications by Year
in descending order

388 papers	55,724 citations	831 121 h-index	1371 228 g-index
412 all docs	412 docs citations	412 times ranked	35600 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.	6.6	2,489
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.	5.5	2,019
3	The Mechanism of Water Oxidation: From Electrolysis via Homogeneous to Biological Catalysis. ChemCatChem, 2010, 2, 724-761.	1.8	1,493
4	Particle Size Effects in the Catalytic Electroreduction of CO₂ on Cu Nanoparticles. Journal of the American Chemical Society, 2014, 136, 6978-6986.	6.6	1,145
5	Compositional segregation in shaped Pt alloy nanoparticles and their structural behaviour during electrocatalysis. Nature Materials, 2013, 12, 765-771.	13.3	1,121
6	Highly selective plasma-activated copper catalysts for carbon dioxide reduction to ethylene. Nature Communications, 2016, 7, 12123.	5.8	896
7	Understanding activity and selectivity of metal-nitrogen-doped carbon catalysts for electrochemical reduction of CO2. Nature Communications, 2017, 8, 944.	5.8	890
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.	6.6	888
9	Electrocatalytic Oxygen Evolution Reaction in Acidic Environments â€“ Reaction Mechanisms and Catalysts. Advanced Energy Materials, 2017, 7, 1601275.	10.2	847
10	NiFeâ€Based (Oxy)hydroxide Catalysts for Oxygen Evolution Reaction in Nonâ€Acidic Electrolytes. Advanced Energy Materials, 2016, 6, 1600621.	10.2	765
11	Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis. Nature Catalysis, 2019, 2, 304-313.	16.1	757
12	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.	6.6	742
13	Reversible amorphization and the catalytically active state of crystalline Co3O4 during oxygen evolution. Nature Communications, 2015, 6, 8625.	5.8	694
14	Nanostructured electrocatalysts with tunable activity and selectivity. Nature Reviews Materials, 2016, 1, .	23.3	675
15	Mesoporous Nitrogen-Doped Carbon for the Electrocatalytic Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2012, 134, 4072-4075.	6.6	609
16	Exceptional Size-Dependent Activity Enhancement in the Electroreduction of CO₂ over Au Nanoparticles. Journal of the American Chemical Society, 2014, 136, 16473-16476.	6.6	600
17	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	5.8	594
18	Electrolysis of low-grade and saline surface water. Nature Energy, 2020, 5, 367-377.	19.8	579

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19	Direct Electrolytic Splitting of Seawater: Opportunities and Challenges. ACS Energy Letters, 2019, 4, 933-942.	8.8	578
20	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.	6.6	575
21	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.	7.2	573
22	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.	6.6	565
23	A Highly Ordered Meso@Microporous Carbon-Supported Sulfur@Smaller Sulfur Coreâ€“Shell Structured Cathode for Liâ€“S Batteries. ACS Nano, 2014, 8, 9295-9303.	7.3	552
24	Electrochemical CO₂ Reduction: A Classification Problem. ChemPhysChem, 2017, 18, 3266-3273.	1.0	534
25	Octahedral PtNi Nanoparticle Catalysts: Exceptional Oxygen Reduction Activity by Tuning the Alloy Particle Surface Composition. Nano Letters, 2012, 12, 5885-5889.	4.5	522
26	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.	6.6	518
27	Metalâ€Doped Nitrogenated Carbon as an Efficient Catalyst for Direct CO₂ Electroreduction to CO and Hydrocarbons. Angewandte Chemie - International Edition, 2015, 54, 10758-10762.	7.2	504
28	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.	6.6	493
29	Design Criteria, Operating Conditions, and Nickelâ€“Iron Hydroxide Catalyst Materials for Selective Seawater Electrolysis. ChemSusChem, 2016, 9, 962-972.	3.6	467
30	Quantifying the density and utilization of active sites in non-precious metal oxygen electroreduction catalysts. Nature Communications, 2015, 6, 8618.	5.8	461
31	Electrochemical Catalystâ€“Support Effects and Their Stabilizing Role for IrO_{<i>x</i>} Nanoparticle Catalysts during the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2016, 138, 12552-12563.	6.6	451
32	Carbon as catalyst and support for electrochemical energy conversion. Carbon, 2014, 75, 5-42.	5.4	443
33	Dealloyed Ptâˆ’Cu Coreâˆ’Shell Nanoparticle Electrocatalysts for Use in PEM Fuel Cell Cathodes. Journal of Physical Chemistry C, 2008, 112, 2770-2778.	1.5	432
34	A unique oxygen ligand environment facilitates water oxidation in hole-doped IrNiOx coreâ€“shell electrocatalysts. Nature Catalysis, 2018, 1, 841-851.	16.1	424
35	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.	2.2	417
36	Unified structural motifs of the catalytically active state of Co(oxyhydr)oxides during the electrochemical oxygen evolution reaction. Nature Catalysis, 2018, 1, 711-719.	16.1	415

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37	Key role of chemistry versus bias in electrocatalytic oxygen evolution. Nature, 2020, 587, 408-413.	13.7	405
38	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.	13.3	400
39	Oxideâ€Supported IrNiO_{<i>x</i>} Coreâ€"Shell Particles as Efficient, Costâ€Effective, and Stable Catalysts for Electrochemical Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 2975-2979.	7.2	384
40	Efficient Electrochemical Hydrogen Peroxide Production from Molecular Oxygen on Nitrogen-Doped Mesoporous Carbon Catalysts. ACS Catalysis, 2018, 8, 2844-2856.	5.5	372
41	Reversible magnesium and aluminium ions insertion in cation-deficient anatase TiO2. Nature Materials, 2017, 16, 1142-1148.	13.3	366
42	Record activity and stability of dealloyed bimetallic catalysts for proton exchange membrane fuel cells. Energy and Environmental Science, 2015, 8, 258-266.	15.6	358
43	Efficient CO₂ to CO electrolysis on solid Niâ€"Nâ€"C catalysts at industrial current densities. Energy and Environmental Science, 2019, 12, 640-647.	15.6	357
44	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.	4.0	352
45	Coreâ€"Shell Compositional Fine Structures of Dealloyed Pt_{<i>x</i>}Ni_{1â€"<i>x</i>} Nanoparticles and Their Impact on Oxygen Reduction Catalysis. Nano Letters, 2012, 12, 5423-5430.	4.5	352
46	Pt-Based Coreâ€"Shell Catalyst Architectures for Oxygen Fuel Cell Electrodes. Journal of Physical Chemistry Letters, 2013, 4, 3273-3291.	2.1	346
47	Tuning the Catalytic Activity and Selectivity of Cu for CO₂ Electroreduction in the Presence of Halides. ACS Catalysis, 2016, 6, 2136-2144.	5.5	344
48	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. Nature Materials, 2018, 17, 827-833.	13.3	344
49	Efficient Oxygen Reduction Fuel Cell Electrocatalysis on Voltammetrically Dealloyed Ptâ€"Cuâ€"Co Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 8988-8991.	7.2	343
50	Size-Dependent Morphology of Dealloyed Bimetallic Catalysts: Linking the Nano to the Macro Scale. Journal of the American Chemical Society, 2012, 134, 514-524.	6.6	340
51	Oxide-supported Ir nanodendrites with high activity and durability for the oxygen evolution reaction in acid PEM water electrolyzers. Chemical Science, 2015, 6, 3321-3328.	3.7	332
52	The Achilles' heel of iron-based catalysts during oxygen reduction in an acidic medium. Energy and Environmental Science, 2018, 11, 3176-3182.	15.6	332
53	A CoFe2O4/graphene nanohybrid as an efficient bi-functional electrocatalyst for oxygen reduction and oxygen evolution. Journal of Power Sources, 2014, 250, 196-203.	4.0	312
54	A comparative perspective of electrochemical and photochemical approaches for catalytic H₂O₂ production. Chemical Society Reviews, 2020, 49, 6605-6631.	18.7	308

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55	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.	6.6	294
56	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.	10.8	284
57	Electrochemical Reduction of CO₂ on Metal-Nitrogen-Doped Carbon Catalysts. ACS Catalysis, 2019, 9, 7270-7284.	5.5	282
58	IrOx core-shell nanocatalysts for cost- and energy-efficient electrochemical water splitting. Chemical Science, 2014, 5, 2955-2963.	3.7	278
59	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. Nature Materials, 2020, 19, 1215-1223.	13.3	278
60	Element-specific anisotropic growth of shaped platinum alloy nanocrystals. Science, 2014, 346, 1502-1506.	6.0	277
61	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.	15.6	267
62	Understanding and Controlling Nanoporosity Formation for Improving the Stability of Bimetallic Fuel Cell Catalysts. Nano Letters, 2013, 13, 1131-1138.	4.5	261
63	Alloy Nanocatalysts for the Electrochemical Oxygen Reduction (ORR) and the Direct Electrochemical Carbon Dioxide Reduction Reaction (CO₂RR). Advanced Materials, 2019, 31, e1805617.	11.1	255
64	High-Performance Oxygen Redox Catalysis with Multifunctional Cobalt Oxide Nanochains: Morphology-Dependent Activity. ACS Catalysis, 2015, 5, 2017-2027.	5.5	249
65	Electrochemical water splitting by layered and 3D cross-linked manganese oxides: correlating structural motifs and catalytic activity. Energy and Environmental Science, 2013, 6, 2745.	15.6	248
66	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.	16.1	248
67	Rh-Doped Ptâ€“Ni Octahedral Nanoparticles: Understanding the Correlation between Elemental Distribution, Oxygen Reduction Reaction, and Shape Stability. Nano Letters, 2016, 16, 1719-1725.	4.5	238
68	Oxidation of biomass derived 5-hydroxymethylfurfural using heterogeneous and electrochemical catalysis. Catalysis Today, 2012, 195, 144-154.	2.2	236
69	Cobaltâ€“Manganeseâ€Based Spinels as Multifunctional Materials that Unify Catalytic Water Oxidation and Oxygen Reduction Reactions. ChemSusChem, 2015, 8, 164-171.	3.6	233
70	High Throughput Experimental and Theoretical Predictive Screening of Materials âˆ’ A Comparative Study of Search Strategies for New Fuel Cell Anode Catalysts. Journal of Physical Chemistry B, 2003, 107, 11013-11021.	1.2	231
71	Stability of nanostructured iridium oxide electrocatalysts during oxygen evolution reaction in acidic environment. Electrochemistry Communications, 2014, 48, 81-85.	2.3	229
72	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.	4.0	227

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73	Recent Advances in Nonâ€Noble Bifunctional Oxygen Electrocatalysts toward Largeâ€Scale Production. Advanced Functional Materials, 2020, 30, 2000503.	7.8	226
74	Phosphorus-doped porous carbons as efficient electrocatalysts for oxygen reduction. Journal of Materials Chemistry A, 2013, 1, 9889.	5.2	223
75	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.	15.6	221
76	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.	6.6	219
77	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.	4.0	216
78	In-Plane Carbon Lattice-Defect Regulating Electrochemical Oxygen Reduction to Hydrogen Peroxide Production over Nitrogen-Doped Graphene. ACS Catalysis, 2019, 9, 1283-1288.	5.5	216
79	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.	1.3	215
80	Efficient direct seawater electrolysers using selective alkaline NiFe-LDH as OER catalyst in asymmetric electrolyte feeds. Energy and Environmental Science, 2020, 13, 1725-1729.	15.6	215
81	Hierarchically Structured Nanomaterials for Electrochemical Energy Conversion. Angewandte Chemie - International Edition, 2016, 55, 122-148.	7.2	207
82	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.	15.6	205
83	Electrocatalytic Oxygen Evolution on Iridium Oxide: Uncovering Catalyst-Substrate Interactions and Active Iridium Oxide Species. Journal of the Electrochemical Society, 2014, 161, F876-F882.	1.3	199
84	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.	1.5	194
85	Voltammetric surface dealloying of Pt bimetallic nanoparticles: an experimental and DFT computational analysis. Physical Chemistry Chemical Physics, 2008, 10, 3670.	1.3	192
86	Structure-Activity-Stability Relationships of Ptâ^'Co Alloy Electrocatalysts in Gas-Diffusion Electrode Layers. Journal of Physical Chemistry C, 2007, 111, 3744-3752.	1.5	188
87	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.	10.2	185
88	Mechanistic classification of electrochemical oscillators â€" an operational experimental strategy. Journal of Electroanalytical Chemistry, 1999, 478, 50-66.	1.9	176
89	Structure of Dealloyed PtCu3Thin Films and Catalytic Activity for Oxygen Reduction. Chemistry of Materials, 2010, 22, 4712-4720.	3.2	173
90	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.	5.2	171

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91	Electrochemical CO₂ Reduction: Classifying Cu Facets. ACS Catalysis, 2019, 9, 7894-7899.	5.5	170
92	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie - International Edition, 2021, 60, 14446-14457.	7.2	170
93	Controlling Catalytic Selectivities during CO₂ Electroreduction on Thin Cu Metal Overlayers. Journal of Physical Chemistry Letters, 2013, 4, 2410-2413.	2.1	168
94	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.	8.8	168
95	Morphology and mechanism of highly selective Cu(II) oxide nanosheet catalysts for carbon dioxide electroreduction. Nature Communications, 2021, 12, 794.	5.8	168
96	Activityâ€“stability relationships of ordered and disordered alloy phases of Pt3Co electrocatalysts for the oxygen reduction reaction (ORR). Electrochimica Acta, 2007, 52, 2765-2774.	2.6	159
97	Activity, stability and degradation of multi walled carbon nanotube (MWCNT) supported Pt fuel cell electrocatalysts. Physical Chemistry Chemical Physics, 2010, 12, 15251.	1.3	158
98	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.	3.2	158
99	Bifunctional anode catalysts for direct methanol fuel cells. Energy and Environmental Science, 2012, 5, 8335.	15.6	157
100	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.	10.2	157
101	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Ptâ€“Niâ€“Co Alloy Nanocatalysts. Nano Letters, 2015, 15, 7473-7480.	4.5	156
102	Mesoporous IrO₂ Films Templated by PEO-PB-PEO Block-Copolymers: Self-Assembly, Crystallization Behavior, and Electrocatalytic Performance. Chemistry of Materials, 2011, 23, 3201-3209.	3.2	154
103	Unified mechanistic understanding of CO2 reduction to CO on transition metal and single atom catalysts. Nature Catalysis, 2021, 4, 1024-1031.	16.1	154
104	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.	1.3	148
105	Structure, Activity, and Faradaic Efficiency of Nitrogenâ€Doped Porous Carbon Catalysts for Direct Electrochemical Hydrogen Peroxide Production. ChemSusChem, 2018, 11, 3388-3395.	3.6	148
106	Bimetallic Ru Electrocatalysts for the OER and Electrolytic Water Splitting in Acidic Media. Electrochemical and Solid-State Letters, 2010, 13, B36.	2.2	147
107	Real-time imaging of activation and degradation of carbon supported octahedral Ptâ€“Ni alloy fuel cell catalysts at the nanoscale using <i>in situ</i> electrochemical liquid cell STEM. Energy and Environmental Science, 2019, 12, 2476-2485.	15.6	146
108	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.	6.6	144

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109	Dealloyed Pt-based core-shell oxygen reduction electrocatalysts. Nano Energy, 2016, 29, 166-177.	8.2	143
110	Nanostructured Manganese Oxide Supported on Carbon Nanotubes for Electrocatalytic Water Splitting. ChemCatChem, 2012, 4, 851-862.	1.8	141
111	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.	7.6	140
112	Nitrogen- and Phosphorus-Doped Biocarbon with Enhanced Electrocatalytic Activity for Oxygen Reduction. ACS Catalysis, 2015, 5, 920-927.	5.5	139
113	Unraveling Mechanistic Reaction Pathways of the Electrochemical CO₂ Reduction on Feâ€“Nâ€“C Single-Site Catalysts. ACS Energy Letters, 2019, 4, 1663-1671.	8.8	138
114	Electrocatalytic CO₂ Reduction on CuO_{<i>x</i>} Nanocubes: Tracking the Evolution of Chemical State, Geometric Structure, and Catalytic Selectivity using Operando Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 17974-17983.	7.2	138
115	Experimental Activity Descriptors for Iridium-Based Catalysts for the Electrochemical Oxygen Evolution Reaction (OER). ACS Catalysis, 2019, 9, 6653-6663.	5.5	136
116	Electrochemical processes on solid shaped nanoparticles with defined facets. Chemical Society Reviews, 2018, 47, 715-735.	18.7	129
117	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.	1.2	128
118	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.	3.7	128
119	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.	7.8	127
120	Long-Range Segregation Phenomena in Shape-Selected Bimetallic Nanoparticles: Chemical State Effects. ACS Nano, 2013, 7, 9195-9204.	7.3	126
121	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.	5.5	126
122	Tuning Catalytic Selectivity at the Mesoscale via Interparticle Interactions. ACS Catalysis, 2016, 6, 1075-1080.	5.5	123
123	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.	3.2	121
124	Advancements in cathode catalyst and cathode layer design for proton exchange membrane fuel cells. Nature Communications, 2021, 12, 5984.	5.8	120
125	In Situ Observation of Bimetallic Alloy Nanoparticle Formation and Growth Using High-Temperature XRD. Chemistry of Materials, 2011, 23, 2159-2165.	3.2	118
126	Single site porphyrine-like structures advantages over metals for selective electrochemical CO2 reduction. Catalysis Today, 2017, 288, 74-78.	2.2	116

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127	MnCo₂O₄ Anchored on P-Doped Hierarchical Porous Carbon as an Electrocatalyst for High-Performance Rechargeable Liâ€“O₂ Batteries. ACS Catalysis, 2015, 5, 4890-4896.	5.5	115
128	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.	1.2	114
129	Iridium Oxide Coatings with Templated Porosity as Highly Active Oxygen Evolution Catalysts: Structureâ€Activity Relationships. ChemSusChem, 2015, 8, 1908-1915.	3.6	112
130	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.	2.5	111
131	Stability of Dealloyed Porous Pt/Ni Nanoparticles. ACS Catalysis, 2015, 5, 5000-5007.	5.5	110
132	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.	10.8	110
133	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.	1.3	107
134	Electrocatalytic hydrogen peroxide formation on mesoporous non-metal nitrogen-doped carbon catalyst. Journal of Energy Chemistry, 2016, 25, 251-257.	7.1	107
135	Efficient and Stable Low Iridium Loaded Anodes for PEM Water Electrolysis Made Possible by Nanofiber Interlayers. ACS Applied Energy Materials, 2020, 3, 8276-8284.	2.5	106
136	Formation and Analysis of Coreâ€“Shell Fine Structures in Pt Bimetallic Nanoparticle Fuel Cell Electrocatalysts. Journal of Physical Chemistry C, 2012, 116, 19073-19083.	1.5	105
137	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.	5.5	102
138	Size-Controlled Synthesis of Colloidal Silver Nanoparticles Based on Mechanistic Understanding. Chemistry of Materials, 2013, 25, 4679-4689.	3.2	101
139	Electrochemical Approaches toward CO₂ Capture and Concentration. ACS Catalysis, 2020, 10, 13058-13074.	5.5	100
140	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.	5.2	99
141	<i>In Situ</i> Study of Atomic Structure Transformations of Ptâ€“Ni Nanoparticle Catalysts during Electrochemical Potential Cycling. ACS Nano, 2013, 7, 5666-5674.	7.3	98
142	Catalysts by Platonic design. Science, 2015, 349, 379-380.	6.0	98
143	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.	1.3	97
144	Toward Platinum Group Metal-Free Catalysts for Hydrogen/Air Proton-Exchange Membrane Fuel Cells. Johnson Matthey Technology Review, 2018, 62, 231-255.	0.5	97

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145	Dealloyed Core-Shell Fuel Cell Electrocatalysts. Reviews in Chemical Engineering, 2009, 25, .	2.3	96
146	Competitive CO and CO2 methanation over supported noble metal catalysts in high throughput scanning mass spectrometer. Applied Catalysis A: General, 2005, 296, 30-48.	2.2	95
147	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.	4.5	95
148	Activity, Structure and Degradation of Dealloyed PtNi3Nanoparticle Electrocatalyst for the Oxygen Reduction Reaction in PEMFC. Journal of the Electrochemical Society, 2011, 159, B24-B33.	1.3	94
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.	4.0	94
150	Effects of Composition and Annealing Conditions on Catalytic Activities of Dealloyed Ptâ€“Cu Nanoparticle Electrocatalysts for PEMFC. Journal of the Electrochemical Society, 2008, 155, B1281.	1.3	92
151	Combinatorial Study of High-Surface-Area Binary and Ternary Electrocatalysts for the Oxygen Evolution Reaction. Journal of the Electrochemical Society, 2009, 156, B363.	1.3	92
152	Nitrogen-doped coatings on carbon nanotubes and their stabilizing effect on Pt nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 6444.	1.3	92
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