Peter Strasser

List of Publications by Year
in descending order

388 papers	55,724 citations	701 121 h-index	1190 228 g-index
412 all docs	412 docs citations	412 times ranked	31097 citing authors

#	Article	IF	Citations
1	Covalent Organic Framework (COF) Derived Niâ€Nâ€C Catalysts for Electrochemical CO₂ Reduction: Unraveling Fundamental Kinetic and Structural Parameters of the Active Sites. Angewandte Chemie, 2022, 134, .	2.0	8
2	Covalent Organic Framework (COF) Derived Niâ€Nâ€C Catalysts for Electrochemical CO₂ Reduction: Unraveling Fundamental Kinetic and Structural Parameters of the Active Sites. Angewandte Chemie - International Edition, 2022, 61, .	13.8	28
3	Property-reactivity relations of N-doped PEM fuel cell cathode catalyst supports. Applied Catalysis B: Environmental, 2022, 306, 121118.	20.2	14
4	Impact of Carbon N-Doping and Pyridinic-N Content on the Fuel Cell Performance and Durability of Carbon-Supported Pt Nanoparticle Catalysts. ACS Applied Materials & Interfaces, 2022, 14, 18420-18430.	8.0	28
5	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.	34.4	248
6	Understanding the Performance Increase of Catalysts Supported on N-Functionalized Carbon in PEMFC Catalyst Layers. Journal of the Electrochemical Society, 2022, 169, 054520.	2.9	10
7	Ru clusters anchored on MagnÃ©li phase Ti4O7 nanofibers enables flexible and highly efficient Liâ€“O2 batteries. Energy Storage Materials, 2022, 50, 355-364.	18.0	28
8	Highly Active and Stable Large Mo-Doped Ptâ€“Ni Octahedral Catalysts for ORR: Synthesis, Post-treatments, and Electrochemical Performance and Stability. ACS Applied Materials & Interfaces, 2022, 14, 29690-29702.	8.0	6
9	Improving Silicon Photocathode Performance for Water Reduction through Dual Interface Engineering and Integrating ReS₂ Photocatalyst. ACS Applied Energy Materials, 2022, 5, 8222-8231.	5.1	5
10	Lowâ€Pt NiNCâ€Supported PtNi Nanoalloy Oxygen Reduction Reaction Electrocatalystsâ€”In Situ Tracking of the Atomic Alloying Process. Angewandte Chemie, 2022, 134, .	2.0	1
11	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
12	Modular Design of Highly Active Unitized Reversible Fuel Cell Electrocatalysts. ACS Energy Letters, 2021, 6, 177-183.	17.4	22
13	Surface site density and utilization of platinum group metal (PGM)-free Feâ€“NC and FeNiâ€“NC electrocatalysts for the oxygen reduction reaction. Chemical Science, 2021, 12, 384-396.	7.4	40
14	Molecular Analysis of the Unusual Stability of an IrNbO_x Catalyst for the Electrochemical Water Oxidation to Molecular Oxygen (OER). ACS Applied Materials & Interfaces, 2021, 13, 3748-3761.	8.0	20
15	Electro-catalysts for oxygen electrodes in seawater electrolyzers (OER) and reversible electrolyzers (OER/ORR). , 2021, , 83-103.		2
16	Morphology and mechanism of highly selective Cu(II) oxide nanosheet catalysts for carbon dioxide electroreduction. Nature Communications, 2021, 12, 794.	12.8	168
17	Accelerated Degradation Protocols for Iridium-Based Oxygen Evolving Catalysts in Water Splitting Devices. Journal of the Electrochemical Society, 2021, 168, 034508.	2.9	19
18	Synergized Multimetal Oxides with Amorphous/Crystalline Heterostructure as Efficient Electrocatalysts for Lithiumâ€“Oxygen Batteries. Advanced Energy Materials, 2021, 11, 2100110.	19.5	72

#	Article	IF	Citations
19	Molecular Understanding of the Impact of Saline Contaminants and Alkaline pH on NiFe Layered Double Hydroxide Oxygen Evolution Catalysts. ACS Catalysis, 2021, 11, 6800-6809.	11.2	50
20	Evidence of Marsâ€Vanâ€Krevelen Mechanism in the Electrochemical Oxygen Evolution on Niâ€Based Catalysts. Angewandte Chemie, 2021, 133, 15108-15115.	2.0	9
21	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie, 2021, 133, 14567-14578.	2.0	30
22	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie - International Edition, 2021, 60, 14446-14457.	13.8	170
23	Evidence of Marsâ€Vanâ€Krevelen Mechanism in the Electrochemical Oxygen Evolution on Niâ€Based Catalysts. Angewandte Chemie - International Edition, 2021, 60, 14981-14988.	13.8	67
24	High crystallinity design of Ir-based catalysts drives catalytic reversibility for water electrolysis and fuel cells. Nature Communications, 2021, 12, 4271.	12.8	75
25	In Situ Formed â€œSn_{1â€“}_XIn_X@In_{1â€“}_YSn_Y Core@Shell Nanoparticles as Electrocatalysts for CO₂ Reduction to Formate. Advanced Functional Materials, 2021, 31, 2103601.	14.9	32
26	Size and Composition Dependence of Oxygen Reduction Reaction Catalytic Activities of Mo-Doped PtNi/C Octahedral Nanocrystals. ACS Catalysis, 2021, 11, 11407-11415.	11.2	26
27	Seed-Mediated Synthesis and Catalytic ORR Reactivity of Facet-Stable, Monodisperse Platinum Nano-Octahedra. ACS Applied Energy Materials, 2021, 4, 9542-9552.	5.1	18
28	Water electrolysis: Direct from the sea or not to be?. Joule, 2021, 5, 1921-1923.	24.0	63
29	Impact of Carbon Support Mesoâ€Porosity on Mass Transport and Performance of PEMFC Cathode Catalyst Layers. ChemCatChem, 2021, 13, 4759-4769.	3.7	14
30	Highly efficient electrochemical production of hydrogen peroxide over nitrogen and phosphorus dual-doped carbon nanosheet in alkaline medium. Journal of Electroanalytical Chemistry, 2021, 896, 115197.	3.8	29
31	Assessing the Realizable Flexibility Potential of Electrochemical Processes. Industrial & Engineering Chemistry Research, 2021, 60, 13637-13660.	3.7	10
32	Polymer electrolyte membrane (PEM) electrolysis of H2O2 from O2 and H2O with continuous on-line spectrophotometric product detection: Load flexibility studies. Journal of Electroanalytical Chemistry, 2021, 896, 115465.	3.8	8
33	Challenge in metal-air batteries: From the design to the performance of metal oxide-based electrocatalysts. , 2021, , 187-212.		0
34	Particle size-controlled synthesis of high-performance MnCo-based materials for alkaline OER at fluctuating potentials. Catalysis Science and Technology, 2021, 11, 7278-7286.	4.1	8
35	The product selectivity zones in gas diffusion electrodes during the electrocatalytic reduction of CO₂. Energy and Environmental Science, 2021, 14, 5995-6006.	30.8	57
36	Rapid synthesis of supported single metal nanoparticles and effective removal of stabilizing ligands. Journal of Materials Chemistry A, 2021, 9, 24283-24289.	10.3	7

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37	Advancements in cathode catalyst and cathode layer design for proton exchange membrane fuel cells. Nature Communications, 2021, 12, 5984.	12.8	120
38	Electrochemical Strain Dynamics in Noble Metal Nanocatalysts. Journal of the American Chemical Society, 2021, 143, 17068-17078.	13.7	22
39	(Invited) Pt Alloy Octahedral Nanoparticle Catalysts from Screening Studies to Fuel Cell Measurements. ECS Meeting Abstracts, 2021, MA2021-02, 1192-1192.	0.0	0
40	A H2O2 PEM Electrolyser with Continuous Online Spectrophotometric Product Detection: Load Flexibility Studies. ECS Meeting Abstracts, 2021, MA2021-02, 1265-1265.	0.0	0
41	Unified mechanistic understanding of CO2 reduction to CO on transition metal and single atom catalysts. Nature Catalysis, 2021, 4, 1024-1031.	34.4	154
42	Efficient electrolysis of 5-hydroxymethylfurfural to the biopolymer-precursor furandicarboxylic acid in a zero-gap MEA-type electrolyzer. Cell Reports Physical Science, 2021, 2, 100650.	5.6	11
43	Mildly Oxidized MXene (Ti₃C₂, Nb₂C, and V₂C) Electrocatalyst via a Generic Strategy Enables Longevous Liâ€“O₂ Battery under a High Rate. ACS Nano, 2021, 15, 19640-19650.	14.6	42
44	Exploiting cationic vacancies for increased energy densities in dual-ion batteries. Energy Storage Materials, 2020, 25, 154-163.	18.0	20
45	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.	27.5	400
46	The Role of Surface Hydroxylation, Lattice Vacancies and Bond Covalency in the Electrochemical Oxidation of Water (OER) on Ni-Depleted Iridium Oxide Catalysts. Zeitschrift Fur Physikalische Chemie, 2020, 234, 787-812.	2.8	12
47	Design and Validation of a Fluidized Bed Catalyst Reduction Reactor for the Synthesis of Well-Dispersed Nanoparticle Ensembles. Journal of the Electrochemical Society, 2020, 167, 114509.	2.9	2
48	Electrocatalytic CO₂ Reduction on CuO_x Nanocubes: Tracking the Evolution of Chemical State, Geometric Structure, and Catalytic Selectivity using Operando Spectroscopy. Angewandte Chemie, 2020, 132, 18130-18139.	2.0	45
49	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. Nature Materials, 2020, 19, 1215-1223.	27.5	278
50	Key role of chemistry versus bias in electrocatalytic oxygen evolution. Nature, 2020, 587, 408-413.	27.8	405
51	Assessing Optical and Electrical Properties of Highly Active IrO_x Catalysts for the Electrochemical Oxygen Evolution Reaction via Spectroscopic Ellipsometry. ACS Catalysis, 2020, 10, 14210-14223.	11.2	17
52	Multi-level assessment of obsessive-compulsive disorder (OCD) reveals relations between neural and neurochemical levels. BMC Psychiatry, 2020, 20, 559.	2.6	6
53	Hsa-miR-375/RASD1 Signaling May Predict Local Control in Early Breast Cancer. Genes, 2020, 11, 1404.	2.4	7
54	A comparative perspective of electrochemical and photochemical approaches for catalytic H₂O₂ production. Chemical Society Reviews, 2020, 49, 6605-6631.	38.1	308

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55	Multivalent Mg²⁺-, Zn²⁺-, and Ca²⁺-Ion Intercalation Chemistry in a Disordered Layered Structure. ACS Applied Energy Materials, 2020, 3, 9143-9150.	5.1	8
56	Efficient and Stable Low Iridium Loaded Anodes for PEM Water Electrolysis Made Possible by Nanofiber Interlayers. ACS Applied Energy Materials, 2020, 3, 8276-8284.	5.1	106
57	Electrochemical Approaches toward CO₂ Capture and Concentration. ACS Catalysis, 2020, 10, 13058-13074.	11.2	100
58	Anisotropy of Pt nanoparticles on carbon- and oxide-support and their structural response to electrochemical oxidation probed by in situ techniques. Physical Chemistry Chemical Physics, 2020, 22, 22260-22270.	2.8	9
59	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	12.8	594
60	Efficient direct seawater electrolysers using selective alkaline NiFe-LDH as OER catalyst in asymmetric electrolyte feeds. Energy and Environmental Science, 2020, 13, 1725-1729.	30.8	215
61	A TOMM40/APOE allele encoding APOEâ€ž3 predicts high likelihood of lateâ€onset Alzheimerâ€™s disease in autopsy cases. Molecular Genetics & Genomic Medicine, 2020, 8, e1317.	1.2	8
62	Highly selective and scalable CO2 to CO - Electrolysis using coral-nanostructured Ag catalysts in zero-gap configuration. Nano Energy, 2020, 76, 105030.	16.0	73
63	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.	30.8	205
64	Electroactivation-induced IrNi nanoparticles under different pH conditions for neutral water oxidation. Nanoscale, 2020, 12, 14903-14910.	5.6	14
65	A Comparative Study of the Catalytic Performance of Pt-Based Bi and Trimetallic Nanocatalysts Towards Methanol, Ethanol, Ethylene Glycol, and Glycerol Electro-Oxidation. Journal of Nanoscience and Nanotechnology, 2020, 20, 6274-6285.	0.9	3
66	Ferritin in glioblastoma. British Journal of Cancer, 2020, 122, 1441-1444.	6.4	10
67	Atomic Insights into Aluminiumâ€ion Insertion in Defective Anatase for Batteries. Angewandte Chemie - International Edition, 2020, 59, 19247-19253.	13.8	22
68	Atomic Insights into Aluminiumâ€ion Insertion in Defective Anatase for Batteries. Angewandte Chemie, 2020, 132, 19409-19415.	2.0	1
69	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.	13.8	138
70	Electrolysis of low-grade and saline surface water. Nature Energy, 2020, 5, 367-377.	39.5	579
71	Carbon-Supported IrCoO nanoparticles as an efficient and stable OER electrocatalyst for practicable CO2 electrolysis. Applied Catalysis B: Environmental, 2020, 269, 118820.	20.2	54
72	Solute Incorporation at Oxideâ€“Oxide Interfaces Explains How Ternary Mixedâ€Metal Oxide Nanocrystals Support Elementâ€Specific Anisotropic Growth. Advanced Functional Materials, 2020, 30, 1909054.	14.9	2

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73	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.	20.2	110
74	Recent Advances in Nonâ€Noble Bifunctional Oxygen Electrocatalysts toward Largeâ€Scale Production. Advanced Functional Materials, 2020, 30, 2000503.	14.9	226
75	Towards a Harmonized Accelerated Stress Test Protocol for Fuel Starvation Induced Cell Reversal Events in PEM Fuel Cells: The Effect of Pulse Duration. Journal of the Electrochemical Society, 2020, 167, 124520.	2.9	10
76	(Invited) First Principles Studies of Oxygen Cycle Electrocatalysis: Multifunctional Materials and Reactivity Trends. ECS Meeting Abstracts, 2020, MA2020-01, 1522-1522.	0.0	0
77	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
78	First Principles Analysis of Oxygen Cycle Electrocatalysis: Multifunctional Materials and Reactivity Trends. ECS Meeting Abstracts, 2020, MA2020-02, 2487-2487.	0.0	0
79	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
80	(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
81	(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
82	Coupled Inductive Annealingâ€Electrochemical Setup for Controlled Preparation and Characterization of Alloy Crystal Surface Electrodes. Small Methods, 2019, 3, 1800232.	8.6	3
83	Surface Electrocatalysis: Coupled Inductive Annealing-Electrochemical Setup for Controlled Preparation and Characterization of Alloy Crystal Surface Electrodes (Small Methods 8/2019). Small Methods, 2019, 3, 1970025.	8.6	0
84	Tailored mesoporous Ir/TiOx: Identification of structure-activity relationships for an efficient oxygen evolution reaction. Journal of Catalysis, 2019, 376, 209-218.	6.2	16
85	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.	13.7	493
86	Electrochemical CO₂ Reduction: Classifying Cu Facets. ACS Catalysis, 2019, 9, 7894-7899.	11.2	170
87	Electrochemical Reduction of CO₂ on Metal-Nitrogen-Doped Carbon Catalysts. ACS Catalysis, 2019, 9, 7270-7284.	11.2	282
88	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.	4.8	111
89	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.	9.1	95
90	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.	31.5	267

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91	Concave curvature facets benefit oxygen electroreduction catalysis on octahedral shaped PtNi nanocatalysts. Journal of Materials Chemistry A, 2019, 7, 1149-1159.	10.3	37
92	Formation of unexpectedly active Niâ€“Fe oxygen evolution electrocatalysts by physically mixing Ni and Fe oxyhydroxides. Chemical Communications, 2019, 55, 818-821.	4.1	57
93	Efficient CO₂ to CO electrolysis on solid Niâ€“Nâ€“C catalysts at industrial current densities. Energy and Environmental Science, 2019, 12, 640-647.	30.8	357
94	Unraveling Mechanistic Reaction Pathways of the Electrochemical CO₂ Reduction on Feâ€“Nâ€“C Single-Site Catalysts. ACS Energy Letters, 2019, 4, 1663-1671.	17.4	138
95	Experimental Activity Descriptors for Iridium-Based Catalysts for the Electrochemical Oxygen Evolution Reaction (OER). ACS Catalysis, 2019, 9, 6653-6663.	11.2	136
96	Analysis of oxygen evolving catalyst coated membranes with different current collectors using a new modified rotating disk electrode technique. Electrochimica Acta, 2019, 317, 722-736.	5.2	30
97	Real-time imaging of activation and degradation of carbon supported octahedral Ptâ€“Ni alloy fuel cell catalysts at the nanoscale using in situ electrochemical liquid cell STEM. Energy and Environmental Science, 2019, 12, 2476-2485.	30.8	146
98	Accurate Evaluation of Active-Site Density (SD) and Turnover Frequency (TOF) of PGM-Free Metalâ€“Nitrogen-Doped Carbon (MNC) Electrocatalysts using CO Cryo Adsorption. ACS Catalysis, 2019, 9, 4841-4852.	11.2	79
99	Dealloyed PtNi-Coreâ€“Shell Nanocatalysts Enable Significant Lowering of Pt Electrode Content in Direct Methanol Fuel Cells. ACS Catalysis, 2019, 9, 3764-3772.	11.2	66
100	Direct Electrolytic Splitting of Seawater: Opportunities and Challenges. ACS Energy Letters, 2019, 4, 933-942.	17.4	578
101	Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis. Nature Catalysis, 2019, 2, 304-313.	34.4	757
102	Past, Present and Future of Hay-making Structures in Europe. Sustainability, 2019, 11, 5581.	3.2	7
103	Online Carbon Corrosion Analysis of a Novel, Alloyed PtTi/C in PEM Fuel Cells Using a Non-Dispersive-Infrared System. ECS Transactions, 2019, 92, 547-552.	0.5	1
104	Synthesis of Homogeneous Distributed Nanoparticles Using a Fluidized Bed Reactor. ECS Transactions, 2019, 92, 579-587.	0.5	0
105	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.	20.2	284
106	Validation of antibody-based tools for galanin research. Peptides, 2019, 120, 170009.	2.4	11
107	Suppression of Competing Reaction Channels by Pb Adatom Decoration of Catalytically Active Cu Surfaces During CO₂ Electroreduction. ACS Catalysis, 2019, 9, 1482-1488.	11.2	46
108	Alloy Nanocatalysts for the Electrochemical Oxygen Reduction (ORR) and the Direct Electrochemical Carbon Dioxide Reduction Reaction (CO₂RR). Advanced Materials, 2019, 31, e1805617.	21.0	255

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109	Catalyst Preoxidation and EDTA Electrolyte Additive Remedy Activity and Selectivity Declines During Electrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2019, 123, 2165-2174.	3.1	30
110	In-Plane Carbon Lattice-Defect Regulating Electrochemical Oxygen Reduction to Hydrogen Peroxide Production over Nitrogen-Doped Graphene. ACS Catalysis, 2019, 9, 1283-1288.	11.2	216
111	Photocatalytic reduction of CO2 to hydrocarbons by using photodeposited Pt nanoparticles on carbon-doped titania. Catalysis Today, 2019, 328, 8-14.	4.4	38
112	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.	6.7	121
113	Synthesis of Homogeneous Distributed Nanoparticles Using a Fluidized Bed Reactor. ECS Meeting Abstracts, 2019, , .	0.0	0
114	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
115	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
116	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
117	Efficient Electrochemical Hydrogen Peroxide Production from Molecular Oxygen on Nitrogen-Doped Mesoporous Carbon Catalysts. ACS Catalysis, 2018, 8, 2844-2856.	11.2	372
118	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.	17.4	168
119	Electrochemical processes on solid shaped nanoparticles with defined facets. Chemical Society Reviews, 2018, 47, 715-735.	38.1	129
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.	11.2	126
121	Polyformamidineâ€Derived Nonâ€Noble Metal Electrocatalysts for Efficient Oxygen Reduction Reaction. Advanced Functional Materials, 2018, 28, 1707551.	14.9	49
122	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.	7.4	128
123	One pot microwave synthesis of highly stable AuPd@Pd supported coreâ€“shell nanoparticles. Faraday Discussions, 2018, 208, 409-425.	3.2	13
124	The Electro-Deposition/Dissolution of CuSO₄ Aqueous Electrolyte Investigated by In Situ Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 780-787.	2.6	26
125	Unravelling Degradation Pathways of Oxideâ€Supported Pt Fuel Cell Nanocatalysts under In Situ Operating Conditions. Advanced Energy Materials, 2018, 8, 1701663.	19.5	62
126	Metallic Iridium Thin-Films as Model Catalysts for the Electrochemical Oxygen Evolution Reaction (OER)â€”Morphology and Activity. Surfaces, 2018, 1, 151-164.	2.3	8

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127	The Achilles' heel of iron-based catalysts during oxygen reduction in an acidic medium. Energy and Environmental Science, 2018, 11, 3176-3182.	30.8	332
128	Ir-Ni Bimetallic OER Catalysts Prepared by Controlled Ni Electrodeposition on Irpoly and Ir(111). Surfaces, 2018, 1, 165-186.	2.3	17
129	A unique oxygen ligand environment facilitates water oxidation in hole-doped IrNiOx coreâ€“shell electrocatalysts. Nature Catalysis, 2018, 1, 841-851.	34.4	424
130	Supported metal oxide nanoparticle electrocatalysts: How immobilization affects catalytic performance. Applied Catalysis A: General, 2018, 568, 11-15.	4.3	7
131	Impact of Carbon Support Functionalization on the Electrochemical Stability of Pt Fuel Cell Catalysts. Chemistry of Materials, 2018, 30, 7287-7295.	6.7	73
132	Unified structural motifs of the catalytically active state of Co(oxyhydr)oxides during the electrochemical oxygen evolution reaction. Nature Catalysis, 2018, 1, 711-719.	34.4	415
133	In Situ Stability Studies of Platinum Nanoparticles Supported on Rutheniumâ€“Titanium Mixed Oxide (RTO) for Fuel Cell Cathodes. ACS Catalysis, 2018, 8, 9675-9683.	11.2	51
134	Tuning the Catalytic Oxygen Reduction Reaction Performance of Pt-Ni Octahedral Nanoparticles by Acid Treatments and Thermal Annealing. Journal of the Electrochemical Society, 2018, 165, J3026-J3030.	2.9	17
135	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.	19.5	185
136	Shape Stability of Octahedral PtNi Nanocatalysts for Electrochemical Oxygen Reduction Reaction Studied by in situ Transmission Electron Microscopy. ACS Nano, 2018, 12, 5306-5311.	14.6	62
137	Oxygen Evolution Catalysts Based on Irâ€“Ti Mixed Oxides with Templated Mesopore Structure: Impact of Ir on Activity and Conductivity. ChemSusChem, 2018, 11, 2367-2374.	6.8	29
138	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.	7.8	94
139	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.	19.5	157
140	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. Nature Materials, 2018, 17, 827-833.	27.5	344
141	Highly efficient AuNi-Cu2O electrocatalysts for the oxygen reduction and evolution reactions: Important role of interaction between Au and Ni engineered by leaching of Cu2O. Electrochimica Acta, 2018, 283, 1411-1417.	5.2	17
142	Nonâ€Noble Metal Oxides and their Application as Bifunctional Catalyst in Reversible Fuel Cells and Rechargeable Air Batteries. ChemCatChem, 2018, 10, 4162-4171.	3.7	35
143	A high-performance Te@CMK-3 composite negative electrode for Na rechargeable batteries. Journal of Applied Electrochemistry, 2018, 48, 1265-1271.	2.9	14
144	Structure, Activity, and Faradaic Efficiency of Nitrogenâ€Doped Porous Carbon Catalysts for Direct Electrochemical Hydrogen Peroxide Production. ChemSusChem, 2018, 11, 3388-3395.	6.8	148

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145	Controlled hydroxy-fluorination reaction of anatase to promote Mg²⁺ mobility in rechargeable magnesium batteries. Chemical Communications, 2018, 54, 10080-10083.	4.1	15
146	Toward Platinum Group Metal-Free Catalysts for Hydrogen/Air Proton-Exchange Membrane Fuel Cells. Johnson Matthey Technology Review, 2018, 62, 231-255.	1.0	97
147	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.	13.7	518
148	PdAuCu Nanobranch as Selfâ€Repairing Electrocatalyst for Oxygen Reduction Reaction. ChemSusChem, 2017, 10, 1469-1474.	6.8	19
149	Single site porphyrine-like structures advantages over metals for selective electrochemical CO2 reduction. Catalysis Today, 2017, 288, 74-78.	4.4	116
150	The Effect of Surface Site Ensembles on the Activity and Selectivity of Ethanol Electrooxidation by Octahedral PtNiRh Nanoparticles. Angewandte Chemie - International Edition, 2017, 56, 6533-6538.	13.8	81
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