

Frederic Jaouen

List of Publications by Year in descending order

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120
papers

23,991
citations

13068

68
h-index

17546

121
g-index

128
all docs

128
docs citations

128
times ranked

14067
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-Based Catalysts with Improved Oxygen Reduction Activity in Polymer Electrolyte Fuel Cells. <i>Science</i> , 2009, 324, 71-74.	6.0	2,880
2	Identification of catalytic sites for oxygen reduction in iron- and nitrogen-doped graphene materials. <i>Nature Materials</i> , 2015, 14, 937-942.	13.3	1,714
3	Recent advances in non-precious metal catalysis for oxygen-reduction reaction in polymer electrolyte fuelcells. <i>Energy and Environmental Science</i> , 2011, 4, 114-130.	15.6	1,456
4	Iron-based cathode catalyst with enhanced power density in polymer electrolyte membrane fuel cells. <i>Nature Communications</i> , 2011, 2, 416.	5.8	1,262
5	Metal organic frameworks for electrochemical applications. <i>Energy and Environmental Science</i> , 2012, 5, 9269.	15.6	767
6	Cross-Laboratory Experimental Study of Non-Noble-Metal Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1623-1639.	4.0	655
7	Structure of the catalytic sites in Fe/N/C-catalysts for O ₂ -reduction in PEM fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11673.	1.3	622
8	Highly active oxygen reduction non-platinum group metal electrocatalyst without direct metal-nitrogen coordination. <i>Nature Communications</i> , 2015, 6, 7343.	5.8	583
9	Heat-Treated Fe/N/C Catalysts for O ₂ Electroreduction: Are Active Sites Hosted in Micropores?. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5553-5558.	1.2	545
10	Activity-Selectivity Trends in the Electrochemical Production of Hydrogen Peroxide over Single-Site Metal-Nitrogen-Carbon Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 12372-12381.	6.6	493
11	Structural and mechanistic basis for the high activity of Fe-N-C catalysts toward oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 2418-2432.	15.6	472
12	Identification of catalytic sites in cobalt-nitrogen-carbon materials for the oxygen reduction reaction. <i>Nature Communications</i> , 2017, 8, 957.	5.8	443
13	Electroreduction of CO ₂ on Single-Site Copper-Nitrogen-Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15098-15103.	7.2	369
14	Identification of durable and non-durable Fe _{Nx} sites in Fe-N-C materials for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2021, 4, 10-19.	16.1	368
15	Electrochemical Reduction of CO ₂ Catalyzed by Fe-N-C Materials: A Structure-Selectivity Study. <i>ACS Catalysis</i> , 2017, 7, 1520-1525.	5.5	363
16	Oxygen Reduction Catalysts for Polymer Electrolyte Fuel Cells from the Pyrolysis of Iron Acetate Adsorbed on Various Carbon Supports. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1376-1386.	1.2	361
17	Chemical vapour deposition of Fe-N-C oxygen reduction catalysts with full utilization of dense Fe-N ₄ sites. <i>Nature Materials</i> , 2021, 20, 1385-1391.	13.3	359
18	The Achilles' heel of iron-based catalysts during oxygen reduction in an acidic medium. <i>Energy and Environmental Science</i> , 2018, 11, 3176-3182.	15.6	332

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19	Stability of Fe-N-C Catalysts in Acidic Medium Studied by Operando Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12753-12757.	7.2	321
20	Controlled Growth of Pt Nanowires on Carbon Nanospheres and Their Enhanced Performance as Electrocatalysts in PEM Fuel Cells. <i>Advanced Materials</i> , 2008, 20, 3900-3904.	11.1	318
21	Unveiling N-Protonation and Anion-Binding Effects on Fe/N/C Catalysts for O ₂ Reduction in Proton-Exchange-Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16087-16097.	1.5	300
22	Electrocatalysts for Hydrogen Oxidation Reaction in Alkaline Electrolytes. <i>ACS Catalysis</i> , 2018, 8, 6665-6690.	5.5	289
23	Fe/N/C non-precious catalysts for PEM fuel cells: Influence of the structural parameters of pristine commercial carbon blacks on their activity for oxygen reduction. <i>Electrochimica Acta</i> , 2008, 53, 2925-2938.	2.6	286
24	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. <i>Nature Materials</i> , 2020, 19, 1215-1223.	13.3	278
25	Spectroscopic insights into the nature of active sites in iron-nitrogen-carbon electrocatalysts for oxygen reduction in acid. <i>Nano Energy</i> , 2016, 29, 65-82.	8.2	269
26	Oxygen reduction by Fe-based catalysts in PEM fuel cell conditions: Activity and selectivity of the catalysts obtained with two Fe precursors and various carbon supports. <i>Electrochimica Acta</i> , 2006, 51, 3202-3213.	2.6	256
27	High loading of single atomic iron sites in Fe-NC oxygen reduction catalysts for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2022, 5, 311-323.	16.1	248
28	Impact of Loading in RRDE Experiments on Fe-N-C Catalysts: Two- or Four-Electron Oxygen Reduction?. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, B105.	2.2	246
29	Fe-Based Catalysts for Oxygen Reduction in PEMFCs. <i>Journal of the Electrochemical Society</i> , 2006, 153, A689.	1.3	233
30	Investigation of Mass-Transport Limitations in the Solid Polymer Fuel Cell Cathode. <i>Journal of the Electrochemical Society</i> , 2002, 149, A437.	1.3	223
31	Establishing reactivity descriptors for platinum group metal (PGM)-free Fe-N-C catalysts for PEM fuel cells. <i>Energy and Environmental Science</i> , 2020, 13, 2480-2500.	15.6	205
32	Minimizing Operando Demetallation of Fe-N-C Electrocatalysts in Acidic Medium. <i>ACS Catalysis</i> , 2016, 6, 3136-3146.	5.5	201
33	Optimized Synthesis of Fe/N/C Cathode Catalysts for PEM Fuel Cells: A Matter of Iron-Ligand Coordination Strength. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6867-6870.	7.2	195
34	Nano-structured non-platinum catalysts for automotive fuel cell application. <i>Nano Energy</i> , 2015, 16, 293-300.	8.2	190
35	Evolution Pathway from Iron Compounds to Fe ₁ (II)-N ₄ Sites through Gas-Phase Iron during Pyrolysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 1417-1423.	6.6	185
36	Degradation of Fe/N/C catalysts upon high polarization in acid medium. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18454-18462.	1.3	182

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37	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Fe@N/C Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8809-8812.	7.2	176
38	Structural Descriptors of Zeolitic-Imidazolate Frameworks Are Keys to the Activity of Fe@N/C Catalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 453-464.	6.6	173
39	Average turn-over frequency of O ₂ electro-reduction for Fe/N/C and Co/N/C catalysts in PEFCs. <i>Electrochimica Acta</i> , 2007, 52, 5975-5984.	2.6	169
40	Understanding Active Sites in Pyrolyzed Fe@N/C Catalysts for Fuel Cell Cathodes by Bridging Density Functional Theory Calculations and ⁵⁷ Fe Mössbauer Spectroscopy. <i>ACS Catalysis</i> , 2019, 9, 9359-9371.	5.5	167
41	Influence of the composition on the structure and electrochemical characteristics of the PEFC cathode. <i>Electrochimica Acta</i> , 2003, 48, 4175-4187.	2.6	162
42	O ₂ Reduction Mechanism on Non-Noble Metal Catalysts for PEM Fuel Cells. Part I: Experimental Rates of O ₂ Electroreduction, H ₂ O ₂ Electroreduction, and H ₂ O ₂ Disproportionation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15422-15432.	1.5	162
43	Degradation by Hydrogen Peroxide of Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2015, 162, H403-H414.	1.3	161
44	On the Influence of Oxygen on the Degradation of Fe@N/C Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3235-3243.	7.2	160
45	A novel polymer electrolyte fuel cell for laboratory investigations and in-situ contact resistance measurements. <i>Electrochimica Acta</i> , 2001, 46, 2899-2911.	2.6	145
46	Volcano Trend in Electrocatalytic CO ₂ Reduction Activity over Atomically Dispersed Metal Sites on Nitrogen-Doped Carbon. <i>ACS Catalysis</i> , 2019, 9, 10426-10439.	5.5	142
47	On the Influence of Oxygen on the Degradation of Fe@N/C Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 3261-3269.	1.6	133
48	pH-effect on oxygen reduction activity of Fe-based electro-catalysts. <i>Electrochemistry Communications</i> , 2009, 11, 1986-1989.	2.3	117
49	Investigation of mass transport in gas diffusion layer at the air cathode of a PEMFC. <i>Electrochimica Acta</i> , 2005, 51, 474-488.	2.6	116
50	Investigation of Mass-Transport Limitations in the Solid Polymer Fuel Cell Cathode. <i>Journal of the Electrochemical Society</i> , 2002, 149, A448.	1.3	114
51	Oxygen reduction activities compared in rotating-disk electrode and proton exchange membrane fuel cells for highly active FeNC catalysts. <i>Electrochimica Acta</i> , 2013, 87, 619-628.	2.6	114
52	Transient Techniques for Investigating Mass-Transport Limitations in Gas Diffusion Electrodes. <i>Journal of the Electrochemical Society</i> , 2003, 150, A1699.	1.3	111
53	Application of iron-based cathode catalysts in a microbial fuel cell. <i>Electrochimica Acta</i> , 2011, 56, 1505-1511.	2.6	109
54	Iron porphyrin-based cathode catalysts for PEM fuel cells: Influence of pyrolysis gas on activity and stability. <i>Electrochimica Acta</i> , 2009, 54, 6622-6630.	2.6	106

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55	Iron porphyrin-based cathode catalysts for polymer electrolyte membrane fuel cells: Effect of NH ₃ and Ar mixtures as pyrolysis gases on catalytic activity and stability. <i>Electrochimica Acta</i> , 2010, 55, 6450-6461.	2.6	106
56	Selective electrochemical reduction of nitric oxide to hydroxylamine by atomically dispersed iron catalyst. <i>Nature Communications</i> , 2021, 12, 1856.	5.8	106
57	Physical and Chemical Considerations for Improving Catalytic Activity and Stability of Non-Precious-Metal Oxygen Reduction Reaction Catalysts. <i>ACS Catalysis</i> , 2018, 8, 11264-11276.	5.5	101
58	Toward Platinum Group Metal-Free Catalysts for Hydrogen/Air Proton-Exchange Membrane Fuel Cells. <i>Johnson Matthey Technology Review</i> , 2018, 62, 231-255.	0.5	97
59	Increasing the activity of Fe/N/C catalysts in PEM fuel cell cathodes using carbon blacks with a high-disordered carbon content. <i>Electrochimica Acta</i> , 2008, 53, 6881-6889.	2.6	94
60	Synthesis of highly-active Fe-N-C catalysts for PEMFC with carbide-derived carbons. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14663-14674.	5.2	94
61	pH Effect on the H ₂ O ₂ -Induced Deactivation of Fe-N-C Catalysts. <i>ACS Catalysis</i> , 2020, 10, 8485-8495.	5.5	92
62	Effect of the Transition Metal on Metal-Nitrogen-Carbon Catalysts for the Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2015, 162, H719-H726.	1.3	90
63	Non-Noble Electrocatalysts for O ₂ Reduction: How Does Heat Treatment Affect Their Activity and Structure? Part I. Model for Carbon Black Gasification by NH ₃ : Parametric Calibration and Electrochemical Validation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5963-5970.	1.5	88
64	Non-Noble Electrocatalysts for O ₂ Reduction: How Does Heat Treatment Affect Their Activity and Structure? Part II. Structural Changes Observed by Electron Microscopy, Raman, and Mass Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5971-5976.	1.5	79
65	Accurate Evaluation of Active-Site Density (SD) and Turnover Frequency (TOF) of PGM-Free Metal-Nitrogen-Doped Carbon (MNC) Electrocatalysts using CO Cryo Adsorption. <i>ACS Catalysis</i> , 2019, 9, 4841-4852.	5.5	79
66	What is Next in Anion-Exchange Membrane Water Electrolyzers? Bottlenecks, Benefits, and Future. <i>ChemSusChem</i> , 2022, 15, .	3.6	77
67	Mechanisms of Manganese Oxide Electrocatalysts Degradation during Oxygen Reduction and Oxygen Evolution Reactions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25267-25277.	1.5	76
68	Effect of Furfuryl Alcohol on Metal Organic Framework-based Fe/N/C Electrocatalysts for Polymer Electrolyte Membrane Fuel Cells. <i>Electrochimica Acta</i> , 2014, 119, 192-205.	2.6	72
69	Probing active sites in iron-based catalysts for oxygen electro-reduction: A temperature-dependent 57 Fe Mössbauer spectroscopy study. <i>Catalysis Today</i> , 2016, 262, 110-120.	2.2	70
70	Effect of Pyrolysis Atmosphere and Electrolyte pH on the Oxygen Reduction Activity, Stability and Spectroscopic Signature of FeN _x Moieties in Fe-N-C Catalysts. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3311-F3320.	1.3	70
71	Transient Techniques for Investigating Mass-Transport Limitations in Gas Diffusion Electrodes. <i>Journal of the Electrochemical Society</i> , 2003, 150, A1711.	1.3	63
72	O ₂ Reduction Mechanism on Non-Noble Metal Catalysts for PEM Fuel Cells. Part II: A Porous-Electrode Model To Predict the Quantity of H ₂ O ₂ Detected by Rotating Ring-Disk Electrode. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15433-15443.	1.5	60

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73	Engineering Fe ²⁺ /N Doped Graphene to Mimic Biological Functions of NADPH Oxidase in Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 19602-19610.	6.6	59
74	Oxygen reduction reaction mechanism and kinetics on M-NxCy and M@N-C active sites present in model M-N-C catalysts under alkaline and acidic conditions. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 45-56.	1.2	59
75	Oxygen Reduction Reaction in Alkaline Media Causes Iron Leaching from Fe ²⁺ /N ²⁺ /C Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2022, 144, 9753-9763.	6.6	59
76	Iron ²⁺ -and Nitrogen ²⁺ -Doped Graphene ²⁺ -Based Catalysts for Fuel Cell Applications. <i>ChemElectroChem</i> , 2020, 7, 1739-1747.	1.7	53
77	Quantification of Active Site Density and Turnover Frequency: From Single-Atom Metal to Nanoparticle Electrocatalysts. <i>Jacs Au</i> , 2021, 1, 586-597.	3.6	53
78	Structure and activity of metal-centered coordination sites in pyrolyzed metal ²⁺ -nitrogen ²⁺ -carbon catalysts for the electrochemical reduction of O ₂ . <i>Current Opinion in Electrochemistry</i> , 2018, 9, 198-206.	2.5	51
79	Non-precious metal cathodes for anion exchange membrane fuel cells from ball-milled iron and nitrogen doped carbide-derived carbons. <i>Renewable Energy</i> , 2021, 167, 800-810.	4.3	50
80	High Performance FeNC and Mn-oxide/FeNC Layers for AEMFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134505.	1.3	49
81	Electroreduction of CO ₂ on Single ²⁺ -Site Copper ²⁺ -Nitrogen ²⁺ -Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. <i>Angewandte Chemie</i> , 2019, 131, 15242-15247.	1.6	43
82	Effect of ZIF-8 Crystal Size on the O ₂ Electro-Reduction Performance of Pyrolyzed Fe ²⁺ -N ²⁺ -C Catalysts. <i>Catalysts</i> , 2015, 5, 1333-1351.	1.6	42
83	Designing the 3D Architecture of PGM-Free Cathodes for H ₂ /Air Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 7211-7222.	2.5	41
84	Synergy between molybdenum nitride and gold leading to platinum-like activity for hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4047-4053.	1.3	38
85	Cobalt hexacyanoferrate supported on Sb-doped SnO ₂ as a non-noble catalyst for oxygen evolution in acidic medium. <i>Sustainable Energy and Fuels</i> , 2018, 2, 589-597.	2.5	38
86	Fe-based catalysts for oxygen reduction in proton exchange membrane fuel cells with cyanamide as nitrogen precursor and/or pore-filler. <i>Electrochimica Acta</i> , 2011, 56, 3276-3285.	2.6	37
87	Metal Oxide Clusters on Nitrogen-Doped Carbon are Highly Selective for CO ₂ Electroreduction to CO. <i>ACS Catalysis</i> , 2021, 11, 10028-10042.	5.5	37
88	Effect of Ball-Milling on the Oxygen Reduction Reaction Activity of Iron and Nitrogen Co-doped Carbide-Derived Carbon Catalysts in Acid Media. <i>ACS Applied Energy Materials</i> , 2019, 2, 7952-7962.	2.5	36
89	Potential ²⁺ -Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ X ²⁺ -ray Emission Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11707-11712.	7.2	36
90	Stabilization of Iron-Based Fuel Cell Catalysts by Non-Catalytic Platinum. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1084-F1091.	1.3	33

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91	Time-Resolved Potential-Induced Changes in Fe/N/C Catalysts Studied by In Situ Modulation Excitation X-Ray Absorption Spectroscopy. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	33
92	A platinum nanowire electrocatalyst on single-walled carbon nanotubes to drive hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118582.	10.8	31
93	Factors Influencing the Growth of Pt Nanowires via Chemical Self-Assembly and their Fuel Cell Performance. <i>Small</i> , 2015, 11, 3377-3386.	5.2	30
94	Iron and cobalt containing electrospun carbon nanofibre-based cathode catalysts for anion exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31275-31287.	3.8	30
95	Adhesive copper films for an air-breathing polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2005, 144, 113-121.	4.0	28
96	Stable, Active, and Methanol-Tolerant PGM-Free Surfaces in an Acidic Medium: Electron Tunneling at Play in Pt/FeNC Hybrid Catalysts for Direct Methanol Fuel Cell Cathodes. <i>ACS Catalysis</i> , 2020, 10, 7475-7485.	5.5	28
97	Insights into the electronic structure of Fe penta-coordinated complexes. Spectroscopic examination and electrochemical analysis for the oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23802-23816.	5.2	27
98	Enhancing the electrocatalytic activity of Fe phthalocyanines for the oxygen reduction reaction by the presence of axial ligands: Pyridine-functionalized single-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2021, 398, 139263.	2.6	27
99	Electrochemical Evidence for Two Subfamilies of FeN _x C _y Moieties with Concentration-Dependent Cyanide Poisoning. <i>ChemElectroChem</i> , 2018, 5, 1880-1885.	1.7	24
100	The Challenge of Achieving a High Density of Fe-Based Active Sites in a Highly Graphitic Carbon Matrix. <i>Catalysts</i> , 2019, 9, 144.	1.6	22
101	Electrochemical transformation of Fe-N-C catalysts into iron oxides in alkaline medium and its impact on the oxygen reduction reaction activity. <i>Applied Catalysis B: Environmental</i> , 2022, 311, 121366.	10.8	22
102	Strategies to Hierarchical Porosity in Carbon Nanofiber Webs for Electrochemical Applications. <i>Surfaces</i> , 2019, 2, 159-176.	1.0	21
103	The critical importance of ionomers on the electrochemical activity of platinum and platinum-free catalysts for anion-exchange membrane fuel cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3300-3307.	2.5	21
104	Electrochemical Evidence of Two Types of Active Sites for Oxygen Reduction in Fe-based Catalysts. <i>ECS Transactions</i> , 2009, 25, 117-128.	0.3	20
105	Characterizing Complex Gas-Solid Interfaces with in Situ Spectroscopy: Oxygen Adsorption Behavior on Fe-N-C Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16529-16543.	1.5	20
106	Reduced formation of peroxide and radical species stabilises iron-based hybrid catalysts in polymer electrolyte membrane fuel cells. <i>Journal of Energy Chemistry</i> , 2022, 65, 433-438.	7.1	18
107	Understanding how single-atom site density drives the performance and durability of PGM-free Fe-N-C cathodes in anion exchange membrane fuel cells. <i>Materials Today Advances</i> , 2021, 12, 100179.	2.5	18
108	Influence of the synthesis parameters on the proton exchange membrane fuel cells performance of Fe-N-C aerogel catalysts. <i>Journal of Power Sources</i> , 2021, 514, 230561.	4.0	17

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109	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Feâ€Nâ€C Catalysts. <i>Angewandte Chemie</i> , 2017, 129, 8935-8938.	1.6	16
110	Iron-based Catalysts for Oxygen Reduction in PEM Fuel Cells: Expanded Study Using the Pore-filling Method. <i>ECS Transactions</i> , 2009, 25, 105-115.	0.3	14
111	Mitigation of Carbon Crossover in CO ₂ Electrolysis by Use of Bipolar Membranes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 034508.	1.3	14
112	Engineering catalytic dephosphorylation reaction for endotoxin inactivation. <i>Nano Today</i> , 2022, 44, 101456.	6.2	14
113	FeNC catalysts for CO ₂ electroreduction to CO: effect of nanostructured carbon supports. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1833-1840.	2.5	12
114	Deactivation of Fe-N-C catalysts during catalyst ink preparation process. <i>Catalysis Today</i> , 2021, 359, 9-15.	2.2	9
115	Oxygen Reduction Reaction on Metal and Nitrogenâ€Doped Carbon Electrocatalysts in the Presence of Sodium Borohydride. <i>Electrocatalysis</i> , 2020, 11, 365-373.	1.5	8
116	Fe-Based Catalyst for Oxygen Reduction: Functionalization of Carbon Black and Importance of the Microporosity. <i>ECS Transactions</i> , 2006, 3, 201-210.	0.3	7
117	Predicting electrochemical activity. <i>Nature Catalysis</i> , 2018, 1, 314-315.	16.1	5
118	Potentialâ€Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ Xâ€ray Emission Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 11813-11818.	1.6	5
119	Enabling low-cost and sustainable fuel cells. <i>Nature Materials</i> , 2022, 21, 733-735.	13.3	4
120	The Future with Fuel Cells & Hydrogen: From Materials Advances to Deployment. <i>Fuel Cells</i> , 2014, 14, 675-676.	1.5	0