Lin Zhuang

List of Publications by Year
in descending order

185 papers	14,184 citations	20759 60 h-index	20900 115 g-index
189 all docs	189 docs citations	189 times ranked	12681 citing authors

#	Article	IF	Citations
1	High-Performance Ru ₂ P Anodic Catalyst for Alkaline Polymer Electrolyte Fuel Cells. CCS Chemistry, 2022, 4, 1732-1744.	4.6	39
2	Highly stable N-containing polymer-based Fe/Nx/C electrocatalyst for alkaline anion exchange membrane fuel cell applications. Progress in Natural Science: Materials International, 2022, 32, 27-33.	1.8	11
3	Application of rock-salt-type Coâ€“Mn oxides for alkaline polymer electrolyte fuel cells. Journal of Power Sources, 2022, 520, 230868.	4.0	5
4	Building Pathways to a Sustainable Planet. ACS Sustainable Chemistry and Engineering, 2022, 10, 1-2.	3.2	1
5	Customizable CO₂ Electroreduction to C₁ or C₂₊ Products through Cu_y/CeO₂ Interface Engineering. ACS Catalysis, 2022, 12, 1004-1011.	5.5	47
6	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	23.0	195
7	A completely precious metalâ€“free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119883119.	3.3	54
8	Preanodized Cu Surface for Selective CO₂ Electroreduction to C₁ or C₂₊ Products. ACS Applied Materials & Interfaces, 2022, 14, 20953-20961.	4.0	8
9	Oxygen-Inserted Top-Surface Layers of Ni for Boosting Alkaline Hydrogen Oxidation Electrocatalysis. Journal of the American Chemical Society, 2022, 144, 12661-12672.	6.6	75
10	Electronic Modulation of Ru Nanosheet by dâ€“d Orbital Coupling for Enhanced Hydrogen Oxidation Reaction in Alkaline Electrolytes. Small, 2022, 18, .	5.2	18
11	A stable zinc-based secondary battery realized by anion-exchange membrane as the separator. Journal of Power Sources, 2021, 486, 229376.	4.0	20
12	Interface-Enhanced Catalytic Selectivity on the C₂ Products of CO₂ Electroreduction. ACS Catalysis, 2021, 11, 2473-2482.	5.5	92
13	Offsetting the thermal expansion mismatch: a new way to high-performance solid oxide fuel cell cathodes. Science China Chemistry, 2021, 64, 877-878.	4.2	1
14	Improving the Catalytic Efficiency of NiFe-LDH/ATO by Air Plasma Treatment for Oxygen Evolution Reaction. Chemical Research in Chinese Universities, 2021, 37, 293-297.	1.3	16
15	Comb-shaped anion exchange membranes: Hydrophobic side chains grafted onto backbones or linked to cations?. Journal of Membrane Science, 2021, 626, 119096.	4.1	26
16	Ultrathin Self-Cross-Linked Alkaline Polymer Electrolyte Membrane for APEFC Applications. ACS Applied Energy Materials, 2021, 4, 4297-4301.	2.5	5
17	Regulation of the activity, selectivity, and durability of Cu-based electrocatalysts for CO2 reduction. Science China Chemistry, 2021, 64, 1660-1678.	4.2	38
18	Conductivity and Stability Properties of Anion Exchange Membranes: Cation Effect and Backbone Effect. ChemSusChem, 2021, 14, 5021-5031.	3.6	14

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19	Enhanced mass transport and water management of polymer electrolyte fuel cells via 3-D printed architectures. Journal of Power Sources, 2021, 515, 230636.	4.0	17
20	Direct Regeneration of Spent Li-Ion Battery Cathodes via Chemical Relithiation Reaction. ACS Sustainable Chemistry and Engineering, 2021, 9, 16384-16393.	3.2	42
21	In situ surface enhanced Raman spectroscopy study of electrodeâ€“polyelectrolyte interfaces. Faraday Discussions, 2021, 233, 100-111.	1.6	2
22	Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 16528-16530.	3.2	1
23	The Evolution of ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 1-1.	3.2	6
24	Alkaline polymer electrolyte fuel cells without anode humidification and H2 emission. Journal of Power Sources, 2020, 472, 228471.	4.0	23
25	Hydrogen Oxidation Reaction on Pdâ€Ni(OH) 2 Composite Electrocatalysts in an Alkaline Electrolyte. ChemistrySelect, 2020, 5, 7803-7807.	0.7	6
26	Expectations for Manuscripts in ACS Sustainable Chemistry & Engineering: Scope Summary and Call for Creativity. ACS Sustainable Chemistry and Engineering, 2020, 8, 16046-16047.	3.2	2
27	Remembering Professor, Academician, and Editor Lina Zhang. ACS Sustainable Chemistry and Engineering, 2020, 8, 16385-16385.	3.2	0
28	Chemical prelithiation of Al for use as an ambient air compatible and polysulfide resistant anode for Li-ion/S batteries. Journal of Materials Chemistry A, 2020, 8, 18715-18720.	5.2	24
29	Electrochemical CO2 reduction on heterogeneous cobalt phthalocyanine catalysts with different carbon supports. Chemical Physics Letters, 2020, 754, 137655.	1.2	24
30	The Changing Structure of Scientific Communication: Expanding the Nature of Letters Submissions to ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 8469-8470.	3.2	0
31	Improving the Antioxidation Capability of the Ni Catalyst by Carbon Shell Coating for Alkaline Hydrogen Oxidation Reaction. ACS Applied Materials & Interfaces, 2020, 12, 31575-31581.	4.0	44
32	Twist and sliding dynamics between interpenetrated frames in Ti-MOF revealing high proton conductivity. Chemical Science, 2020, 11, 3978-3985.	3.7	38
33	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. Nature Nanotechnology, 2020, 15, 390-397.	15.6	420
34	Expectations for Papers on Photochemistry, Photoelectrochemistry, and Electrochemistry for Energy Conversion and Storage in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 3038-3039.	3.2	4
35	Highly Selective Reduction of CO₂ to C₂₊ Hydrocarbons at Copper/Polyaniline Interfaces. ACS Catalysis, 2020, 10, 4103-4111.	5.5	220
36	Dendrite-Free Sn Anode with High Reversibility for Aqueous Batteries Enabled by â€œWater-in-Saltâ€• Electrolyte. ACS Applied Energy Materials, 2020, 3, 5031-5038.	2.5	4

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37	Extraordinary activity of mesoporous carbon supported Ru toward the hydrogen oxidation reaction in alkaline media. Journal of Power Sources, 2020, 461, 228147.	4.0	44
38	Aggregated and ionic cross-linked anion exchange membrane with enhanced hydroxide conductivity and stability. Journal of Power Sources, 2020, 459, 227838.	4.0	32
39	Mesoporous Silica Reinforced Hybrid Polymer Artificial Layer for High-Energy and Long-Cycling Lithium Metal Batteries. ACS Energy Letters, 2020, 5, 1644-1652.	8.8	74
40	The Comparability of Pt to Ptâ€Ru in Catalyzing the Hydrogen Oxidation Reaction for Alkaline Polymer Electrolyte Fuel Cells Operated at 80â€‰Â°C. Angewandte Chemie, 2019, 131, 1456-1460.	1.6	22
41	A high-performance dual-redox electrochemical capacitor using stabilized Zn2+/Zn anolyte and Br3Ë‰/BrË‰ catholyte. Journal of Power Sources, 2019, 436, 226843.	4.0	14
42	Powerful Thermogalvanic Cells Based on a Reversible Hydrogen Electrode and Gas-Containing Electrolytes. ACS Energy Letters, 2019, 4, 1810-1815.	8.8	28
43	Viologen/Bromide Dual-Redox Electrochemical Capacitor with Two-Electron Reduction of Viologen. ACS Applied Materials & Interfaces, 2019, 11, 41215-41221.	4.0	16
44	Hydrogen oxidation reaction on modified platinum model electrodes in alkaline media. Electrochimica Acta, 2019, 327, 135016.	2.6	17
45	Poly(arylene piperidine)s with phosphoric acid doping as high temperature polymer electrolyte membrane for durable, high-performance fuel cells. Journal of Power Sources, 2019, 443, 227219.	4.0	87
46	Hydrophobic Side-Chain Attached Polyarylether-Based Anion Exchange Membranes with Enhanced Alkaline Stability. ACS Applied Energy Materials, 2019, 2, 8052-8059.	2.5	20
47	Theoretical search for novel Au or Ag bimetallic alloys capable of transforming CO2 into hydrocarbons. Journal of Materials Chemistry A, 2019, 7, 20567-20573.	5.2	15
48	Anion exchange membranes with "rigid-side-chain" symmetric piperazinium structures for fuel cell exceeding 1.2â€Wâ€cmâ^'2 at 60 Â°C. Journal of Power Sources, 2019, 438, 227021.	4.0	29
49	Two-Dimensional Ga₂O₃/C Nanosheets as Durable and High-Rate Anode Material for Lithium Ion Batteries. Langmuir, 2019, 35, 13607-13613.	1.6	19
50	NiGa2O4/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8025-8031.	4.0	18
51	An alkaline polymer electrolyte CO₂ electrolyzer operated with pure water. Energy and Environmental Science, 2019, 12, 2455-2462.	15.6	231
52	High-Loading Composition-Tolerant Coâ€“Mn Spinel Oxides with Performance beyond 1 W/cm² in Alkaline Polymer Electrolyte Fuel Cells. ACS Energy Letters, 2019, 4, 1251-1257.	8.8	77
53	Synergistic Mn-Co catalyst outperforms Pt on high-rate oxygen reduction for alkaline polymer electrolyte fuel cells. Nature Communications, 2019, 10, 1506.	5.8	212
54	Exploring the Compositionâ€“Activity Relation of Niâ€“Cu Binary Alloy Electrocatalysts for Hydrogen Oxidation Reaction in Alkaline Media. ACS Applied Energy Materials, 2019, 2, 3160-3165.	2.5	47

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55	Stable Li Metal Anode with â€œIonâ€“Solvent-Coordinatedâ€•Nonflammable Electrolyte for Safe Li Metal Batteries. ACS Energy Letters, 2019, 4, 483-488.	8.8	148
56	A novel on-line electrochemical transmission infrared spectroscopy toÂstudy the current efficiency of carbonates forÂethanol oxidation reactions in alkaline media. Journal of Energy Chemistry, 2019, 38, 78-83.	7.1	3
57	In Situ X-ray Absorption Spectroscopy of a Synergistic Coâ€“Mn Oxide Catalyst for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2019, 141, 1463-1466.	6.6	121
58	The Comparability of Pt to Ptâ€Ru in Catalyzing the Hydrogen Oxidation Reaction for Alkaline Polymer Electrolyte Fuel Cells Operated at 80â€‰Â°C. Angewandte Chemie - International Edition, 2019, 58, 1442-1446.	7.2	99
59	Effect of Micromorphology on Alkaline Polymer Electrolyte Stability. ACS Applied Materials & Interfaces, 2019, 11, 469-477.	4.0	36
60	Unraveling the composition-activity relationship of Pt Ru binary alloy for hydrogen oxidation reaction in alkaline media. Journal of Power Sources, 2019, 412, 282-286.	4.0	29
61	Ni(OH)2-Ni/C for hydrogen oxidation reaction in alkaline media. Journal of Energy Chemistry, 2019, 29, 111-115.	7.1	51
62	High-Performance Ga₂O₃ Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5519-5526.	4.0	60
63	Highly conductive and stable hybrid ionic cross-linked sulfonated PEEK for fuel cell. Electrochimica Acta, 2018, 291, 353-361.	2.6	17
64	Molecularly Defined Interface Created by Porous Polymeric Networks on Gold Surface for Concerted and Selective CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2018, 6, 17277-17283.	3.2	26
65	Sulfonated Nanobamboo Fiber-Reinforced Quaternary Ammonia Poly(ether ether ketone) Membranes for Alkaline Polymer Electrolyte Fuel Cells. ACS Applied Materials & Interfaces, 2018, 10, 33581-33588.	4.0	24
66	Water induced phase segregation in hydrocarbon proton exchange membranes. Journal of Energy Chemistry, 2018, 27, 1517-1520.	7.1	19
67	Alkaline polymer electrolyte fuel cells stably working at 80â€Â°C. Journal of Power Sources, 2018, 390, 165-167.	4.0	256
68	Boosting the Performance of Iron-Phthalocyanine as Cathode Electrocatalyst for Alkaline Polymer Fuel Cells Through Edge-Closed Conjugation. ACS Applied Materials & Interfaces, 2018, 10, 28664-28671.	4.0	34
69	Nitrogen-doping induces tunable magnetism in ReS2. Npj 2D Materials and Applications, 2018, 2, .	3.9	27
70	Covalent Organic Frameworks Linked by Amine Bonding for Concerted Electrochemical Reduction of CO2. CheM, 2018, 4, 1696-1709.	5.8	306
71	Mechanically Robust Anion Exchange Membranes via Long Hydrophilic Cross-Linkers. Macromolecules, 2017, 50, 2329-2337.	2.2	103
72	Van der Waals Epitaxial Growth of Atomic Layered HfS₂ Crystals for Ultrasensitive Nearâ€Infrared Phototransistors. Advanced Materials, 2017, 29, 1700439.	11.1	96

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73	A nickel nanocatalyst within a h-BN shell for enhanced hydrogen oxidation reactions. Chemical Science, 2017, 8, 5728-5734.	3.7	113
74	Highly efficient Fe/N/C catalyst using adenosine as C/N-source for APEFC. Journal of Energy Chemistry, 2017, 26, 616-621.	7.1	10
75	Tuning the Morphology of Li₂O₂ by Noble and 3d metals: A Planar Model Electrode Study for Liâ€“O₂ Battery. ACS Applied Materials & Interfaces, 2017, 9, 19800-19806.	4.0	39
76	Elastic Long-Chain Multication Cross-Linked Anion Exchange Membranes. Macromolecules, 2017, 50, 3323-3332.	2.2	159
77	Influence of cation on the cellulose dissolution investigated by MD simulation and experiments. Cellulose, 2017, 24, 4641-4651.	2.4	18
78	High-performance oxygen reduction catalysts in both alkaline and acidic fuel cells based on pre-treating carbon material and iron precursor. Science Bulletin, 2017, 62, 1602-1608.	4.3	7
79	Stomata-like metal peptide coordination polymer. Journal of Materials Chemistry A, 2017, 5, 23440-23445.	5.2	9
80	Imidazolium Ions with an Alcohol Substituent for Enhanced Electrocatalytic Reduction of CO₂. ChemSusChem, 2017, 10, 4824-4828.	3.6	11
81	High performance platinum single atom electrocatalyst for oxygen reduction reaction. Nature Communications, 2017, 8, 15938.	5.8	569
82	Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. ACS Catalysis, 2017, 7, 6485-6492.	5.5	141
83	A two-photon fluorescent probe for exogenous and endogenous superoxide anion imaging in vitro and in vivo. Biosensors and Bioelectronics, 2017, 87, 73-80.	5.3	66
84	A High-Performance Cathode for Sodium-Ion Batteries Based on Uniform P2-Na_{0.7}CoO₂ Microspheres. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1271-1272.	2.2	3
85	Synergy of Ammonium Chloride and Moisture on Perovskite Crystallization for Efficient Printable Mesoscopic Solar Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 647-648.	2.2	2
86	Low-Crystalline Iron Oxide Hydroxide Nanoparticles: High-Performance Anode for Supercapacitors. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 859-860.	2.2	3
87	Metal-Organic Framework/Carbon Nanotube-Based Foldable Lithiu<i>m</i>-Sulfur Battery. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 655-655.	2.2	0
88	Enhancing CO₂ Electroreduction with Interfacial Confinement. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1269-1270.	2.2	0
89	Reducing By-Products and Overpotential in Li-O₂ Batteries by Water Addition. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1075-1076.	2.2	0
90	Influence of 12-Crown-4 on Oxygen Electrode of Aprotic Li-O₂ Battery. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 343-348.	2.2	2

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91	Spatially Resolved Quantification of the Surface Reactivity of Solid Catalysts. Angewandte Chemie - International Edition, 2016, 55, 6239-6243.	7.2	87
92	Pd skin on AuCu intermetallic nanoparticles: A highly active electrocatalyst for oxygen reduction reaction in alkaline media. Nano Energy, 2016, 29, 268-274.	8.2	55
93	High performance aliphatic-heterocyclic benzyl-quaternary ammonium radiation-grafted anion-exchange membranes. Energy and Environmental Science, 2016, 9, 3724-3735.	15.6	215
94	Tuning the Morphology and Crystal Structure of Li₂O₂: A Graphene Model Electrode Study for Liâ€“O₂ Battery. ACS Applied Materials & Interfaces, 2016, 8, 21350-21357.	4.0	48
95	Self-assembly of Pt-based truncated octahedral crystals into metal-frameworks towards enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 15169-15180.	5.2	11
96	Efficient solar-to-chemical conversion with chlorine photoanode. Electrochemistry Communications, 2016, 67, 69-72.	2.3	3
97	Spatially Resolved Quantification of the Surface Reactivity of Solid Catalysts. Angewandte Chemie, 2016, 128, 6347-6351.	1.6	21
98	Direct Growth of MoS₂/h-BN Heterostructures via a Sulfide-Resistant Alloy. ACS Nano, 2016, 10, 2063-2070.	7.3	139
99	Large-Scale Synthesis of Metal-Ion-Doped Manganese Dioxide for Enhanced Electrochemical Performance. ACS Applied Materials & Interfaces, 2016, 8, 8474-8480.	4.0	63
100	Varying the microphase separation patterns of alkaline polymer electrolytes. Journal of Materials Chemistry A, 2016, 4, 4071-4081.	5.2	61
101	Multication Side Chain Anion Exchange Membranes. Macromolecules, 2016, 49, 815-824.	2.2	303
102	Uniform graphene on liquid metal by chemical vapour deposition at reduced temperature. Carbon, 2016, 96, 799-804.	5.4	35
103	On-Line Electrochemical Transmission Infrared Spectroscopic Study of Pb²⁺ Enhanced Câ€•C Bond Breaking in the Ethanol Oxidation Reaction. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 1467-1472.	2.2	2
104	Preparation and Electrocatalytic Properties of Perovskite Type Oxides CaVO₃ for Oxygen Reduction Reaction. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 2310-2315.	2.2	3
105	Cheap carbon black-based high-performance electrocatalysts for oxygen reduction reaction. Chemical Communications, 2015, 51, 1972-1975.	2.2	55
106	An Effective Approach for Alleviating Cation-Induced Backbone Degradation in Aromatic Ether-Based Alkaline Polymer Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 2809-2816.	4.0	79
107	Carbonation effects on the performance of alkaline polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2015, 40, 6655-6660.	3.8	42
108	Nitrogenâ€Doped Carbon Nanotube Aerogels for Highâ€Performance ORR Catalysts. Small, 2015, 11, 3903-3908.	5.2	96

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109	Structure-activity relationship in high-performance iron-based electrocatalysts for oxygen reduction reaction. Journal of Power Sources, 2015, 300, 279-284.	4.0	68
110	Aminothiazole-derived N,S,Fe-doped graphene nanosheets as high performance electrocatalysts for oxygen reduction. Chemical Communications, 2015, 51, 17092-17095.	2.2	85
111	Ptâ€“Ru catalyzed hydrogen oxidation in alkaline media: oxophilic effect or electronic effect?. Energy and Environmental Science, 2015, 8, 177-181.	15.6	418
112	Noble fabrication of Niâ€“Mo cathode for alkaline water electrolysis and alkaline polymer electrolyte water electrolysis. International Journal of Hydrogen Energy, 2014, 39, 3055-3060.	3.8	59
113	Constructing ionic highway in alkaline polymer electrolytes. Energy and Environmental Science, 2014, 7, 354-360.	15.6	439
114	A morphology effect of hematite photoanode for photoelectrochemical water oxidation. RSC Advances, 2014, 4, 37701.	1.7	14
115	A PtRu catalyzed rechargeable oxygen electrode for Liâ€“O₂ batteries: performance improvement through Li₂O₂ morphology control. Physical Chemistry Chemical Physics, 2014, 16, 20618-20623.	1.3	44
116	Anion-exchange membranes in electrochemical energy systems. Energy and Environmental Science, 2014, 7, 3135-3191.	15.6	1,617
117	Highly Efficient Molecular Cobalt Electrode for (Photo)electrochemical Hydrogen Evolution. Journal of Physical Chemistry C, 2014, 118, 20791-20798.	1.5	21
118	A many-body dissipative particle dynamics study of fluidâ€“fluid spontaneous capillary displacement. RSC Advances, 2014, 4, 6545.	1.7	26
119	Pt Skin on AuCu Intermetallic Substrate: A Strategy to Maximize Pt Utilization for Fuel Cells. Journal of the American Chemical Society, 2014, 136, 9643-9649.	6.6	220
120	Intermetallic Pt2Si: magnetron-sputtering preparation and electrocatalysis toward ethanol oxidation. Journal of Energy Chemistry, 2014, 23, 265-268.	7.1	6
121	Fluorine-Doped Carbon Blacks: Highly Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction. ACS Catalysis, 2013, 3, 1726-1729.	5.5	337
122	A strategy for disentangling the conductivityâ€“stability dilemma in alkaline polymer electrolytes. Energy and Environmental Science, 2013, 6, 2912.	15.6	150
123	Ultrathin composite membrane of alkaline polymer electrolyte for fuel cell applications. Journal of Materials Chemistry A, 2013, 1, 12497.	5.2	56
124	Alkaline polymer electrolyte fuel cell with Ni-based anode and Co-based cathode. International Journal of Hydrogen Energy, 2013, 38, 16264-16268.	3.8	77
125	Quaternary ammonia polysulfone-PTFE composite alkaline anion exchange membrane for fuel cells application. International Journal of Hydrogen Energy, 2013, 38, 1983-1987.	3.8	61
126	Activating Ag by even more inert Au: a peculiar effect on electrocatalysis toward oxygen reduction in alkaline media. Chemical Communications, 2013, 49, 11023.	2.2	19

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127	Bond-energy decoupling: principle and application to heterogeneous catalysis. Chemical Science, 2013, 4, 606-611.	3.7	12
128	Promoting the photoanode efficiency for water splitting by combining hematite and molecular Ru catalysts. Electrochemistry Communications, 2013, 27, 148-151.	2.3	37
129	Pt/Ti catalyst prepared by simultaneous etching-displacement method and the electrocatalysis toward oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2013, 688, 189-195.	1.9	5
130	Effective Fluid Front of the Moving Meniscus in Capillary. Langmuir, 2013, 29, 3269-3273.	1.6	11
131	Application of N-Halogeno-N-sodiobenzenesulfonamide Reagents to the Selective Detection of 5-Methylcytosine in DNA Sequences. Journal of the American Chemical Society, 2013, 135, 1240-1243.	6.6	22
132	Highly Stable Alkaline Polymer Electrolyte Based on a Poly(ether ether ketone) Backbone. ACS Applied Materials & Interfaces, 2013, 5, 13405-13411.	4.0	91
133	AuCu intermetallic nanoparticles: surfactant-free synthesis and novel electrochemistry. Journal of Materials Chemistry, 2012, 22, 15769.	6.7	68
134	First implementation of alkaline polymer electrolyte water electrolysis working only with pure water. Energy and Environmental Science, 2012, 5, 7869.	15.6	234
135	A Many-Body Dissipative Particle Dynamics Study of Forced Waterâ€“Oil Displacement in Capillary. Langmuir, 2012, 28, 1330-1336.	1.6	65
136	Designing Advanced Alkaline Polymer Electrolytes for Fuel Cell Applications. Accounts of Chemical Research, 2012, 45, 473-481.	7.6	359
137	Ionic Conductivity of Pure Water in Charged Porous Matrix. ChemPhysChem, 2012, 13, 514-519.	1.0	16
138	Optimization strategy for fuel-cell catalysts based on electronic effects. RSC Advances, 2011, 1, 1358.	1.7	20
139	Inhibition Effect of Surface Oxygenated Species on Ammonia Oxidation Reaction. Journal of Physical Chemistry C, 2011, 115, 23050-23056.	1.5	47
140	A Reference Electrode System for Electrochemical Measurements in Pure Water. Electroanalysis, 2011, 23, n/a-n/a.	1.5	1
141	A mechanistic study of borohydride anodic oxidation. Catalysis Today, 2011, 170, 99-109.	2.2	16
142	Structure-Performance Relationship Study of Alkaline Polymer Electrolytes. ECS Transactions, 2011, 41, 69-76.	0.3	0
143	Synthesis and characterization of self-crosslinked alkaline polymer electrolytes operable at 90 °C. Scientia Sinica Chimica, 2011, 41, 1848-1856.	0.2	0
144	Alkaline polymer electrolyte fuel cells: Principle, challenges, and recent progress. Science China Chemistry, 2010, 53, 357-364.	4.2	80

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145	Highâ€Performance Alkaline Polymer Electrolyte for Fuel Cell Applications. Advanced Functional Materials, 2010, 20, 312-319.	7.8	449
146	Calculations of the exchange current density for hydrogen electrode reactions: A short review and a new equation. Journal of Electroanalytical Chemistry, 2010, 644, 144-149.	1.9	45
147	Rational determination of exchange current density for hydrogen electrode reactions at carbon-supported Pt catalysts. Electrochimica Acta, 2010, 55, 844-850.	2.6	37
148	Self-crosslinked alkaline polymer electrolyte exceptionally stable at 90 Â°C. Chemical Communications, 2010, 46, 8597.	2.2	122
149	A Many-Body Dissipative Particle Dynamics Study of Spontaneous Capillary Imbibition and Drainage. Langmuir, 2010, 26, 9533-9538.	1.6	66
150	Electrochemical in Situ Electron Spin Resonance, Conductance, and Atomic Force Microscopy Studies of Poly-o-phenylenediamine. Journal of Physical Chemistry C, 2009, 113, 11346-11350.	1.5	6
151	Activating Pd by Morphology Tailoring for Oxygen Reduction. Journal of the American Chemical Society, 2009, 131, 602-608.	6.6	437
152	The electrochemistry of â€œsolid/waterâ€•interfaces involved in PEM-H₂O reactors : Part I. The â€œPt/waterâ€•interfaces. Physical Chemistry Chemical Physics, 2009, 11, 679-687.	1.3	13
153	Quantitative Propertyâ€“Activity Relationship of PtRu/C Catalysts for Methanol Oxidation. ChemPhysChem, 2008, 9, 1986-1988.	1.0	6
154	Eight-electron oxidation of borohydride at potentials negative to reversible hydrogen electrode. Journal of Power Sources, 2008, 185, 892-894.	4.0	15
155	Collapse in Crystalline Structure and Decline in Catalytic Activity of Pt Nanoparticles on Reducing Particle Size to 1 nm. Journal of the American Chemical Society, 2007, 129, 15465-15467.	6.6	150
156	Direct Observation of Electrocatalytic Synergy. Journal of the American Chemical Society, 2007, 129, 11033-11035.	6.6	72
157	A Currentâ^'Decomposition Study of the Borohydride Oxidation Reaction at Ni Electrodes. Journal of Physical Chemistry C, 2007, 111, 7456-7462.	1.5	32
158	In-situ ESR for Studies of Paramagnetic Species on Electrode Surfaces and Electron Spins Inside Electrode Materials. , 2007, , 409-440.		2
159	An Alloying-Degree-Controlling Step in the Impregnation Synthesis of PtRu/C Catalysts. Journal of Physical Chemistry C, 2007, 111, 16416-16422.	1.5	71
160	First-Principles Considerations in the Design of Pd-Alloy Catalysts for Oxygen Reduction. Angewandte Chemie - International Edition, 2007, 46, 2862-2864.	7.2	247
161	A combined electrochemical and DFT study of the lattice strain effect on the surface reactivity of Pd. Chinese Chemical Letters, 2007, 18, 1301-1304.	4.8	8
162	Homogeneous blend membrane made from poly(ether sulphone) and poly(vinylpyrrolidone) and its application to water electrolysis. Journal of Membrane Science, 2007, 300, 205-210.	4.1	25

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163	Non-Pt Anode Catalysts for Alkaline Direct Alcohol Fuel Cells. Chinese Journal of Catalysis, 2007, 28, 870-874.	6.9	77
164	A high-throughput search for direct methanol fuel cell anode electrocatalysts of type PtxBiyPbz. Applied Surface Science, 2007, 254, 653-661.	3.1	26
165	A preliminary study of direct borazane fuel cell. Journal of Power Sources, 2007, 165, 125-127.	4.0	18
166	High throughput screening of electrocatalysts for fuel cell applications. Review of Scientific Instruments, 2006, 77, 054104.	0.6	59
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