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	Anion-exchange membranes in electrochemical energy systems. Energy and Environmental Science, 2014, 7, 3135-3191.	15.6	1,617
2	High performance platinum single atom electrocatalyst for oxygen reduction reaction. Nature Communications, 2017, 8, 15938.	5.8	569
3	Highâ€Performance Alkaline Polymer Electrolyte for Fuel Cell Applications. Advanced Functional Materials, 2010, 20, 312-319.	7.8	449
4	Constructing ionic highway in alkaline polymer electrolytes. Energy and Environmental Science, 2014, 7, 354-360.	15.6	439
5	Activating Pd by Morphology Tailoring for Oxygen Reduction. Journal of the American Chemical Society, 2009, 131, 602-608.	6.6	437
6	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. Nature Nanotechnology, 2020, 15, 390-397.	15.6	420
7	Ptâ€“Ru catalyzed hydrogen oxidation in alkaline media: oxophilic effect or electronic effect?. Energy and Environmental Science, 2015, 8, 177-181.	15.6	418
8	Designing Advanced Alkaline Polymer Electrolytes for Fuel Cell Applications. Accounts of Chemical Research, 2012, 45, 473-481.	7.6	359
9	Fluorine-Doped Carbon Blacks: Highly Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction. ACS Catalysis, 2013, 3, 1726-1729.	5.5	337
10	Covalent Organic Frameworks Linked by Amine Bonding for Concerted Electrochemical Reduction of CO2. CheM, 2018, 4, 1696-1709.	5.8	306
11	Multication Side Chain Anion Exchange Membranes. Macromolecules, 2016, 49, 815-824.	2.2	303
12	Alkaline polymer electrolyte fuel cells stably working at 80â€¯Â°C. Journal of Power Sources, 2018, 390, 165-167.	4.0	256
13	A feasibility analysis for alkaline membrane direct methanol fuel cell: thermodynamic disadvantages versus kinetic advantages. Electrochemistry Communications, 2003, 5, 662-666.	2.3	248
14	First-Principles Considerations in the Design of Pd-Alloy Catalysts for Oxygen Reduction. Angewandte Chemie - International Edition, 2007, 46, 2862-2864.	7.2	247
15	First implementation of alkaline polymer electrolyte water electrolysis working only with pure water. Energy and Environmental Science, 2012, 5, 7869.	15.6	234
16	An alkaline polymer electrolyte CO₂ electrolyzer operated with pure water. Energy and Environmental Science, 2019, 12, 2455-2462.	15.6	231
17	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
18	Highly Selective Reduction of CO₂ to C₂₊ Hydrocarbons at Copper/Polyaniline Interfaces. ACS Catalysis, 2020, 10, 4103-4111.	5.5	220

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19	High performance aliphatic-heterocyclic benzyl-quaternary ammonium radiation-grafted anion-exchange membranes. Energy and Environmental Science, 2016, 9, 3724-3735.	15.6	215
20	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
21	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	23.0	195
22	Elastic Long-Chain Multication Cross-Linked Anion Exchange Membranes. Macromolecules, 2017, 50, 3323-3332.	2.2	159
23	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
24	A strategy for disentangling the conductivityâ€“stability dilemma in alkaline polymer electrolytes. Energy and Environmental Science, 2013, 6, 2912.	15.6	150
25	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
26	Simple and Low-Cost Preparation Method for Highly Dispersed PtRu/C Catalysts. Chemistry of Materials, 2003, 15, 3552-3557.	3.2	143
27	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
28	Direct Growth of MoS₂/h-BN Heterostructures via a Sulfide-Resistant Alloy. ACS Nano, 2016, 10, 2063-2070.	7.3	139
29	Self-crosslinked alkaline polymer electrolyte exceptionally stable at 90 Â°C. Chemical Communications, 2010, 46, 8597.	2.2	122
30	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
31	A nickel nanocatalyst within a h-BN shell for enhanced hydrogen oxidation reactions. Chemical Science, 2017, 8, 5728-5734.	3.7	113
32	Anodic Activation of PtRu/C Catalysts for Methanol Oxidation. Journal of Physical Chemistry B, 2005, 109, 1715-1722.	1.2	110
33	Mechanically Robust Anion Exchange Membranes via Long Hydrophilic Cross-Linkers. Macromolecules, 2017, 50, 2329-2337.	2.2	103
34	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
35	Nitrogenâ€Doped Carbon Nanotube Aerogels for Highâ€Performance ORR Catalysts. Small, 2015, 11, 3903-3908.	5.2	96
36	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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37	Interface-Enhanced Catalytic Selectivity on the C₂ Products of CO₂ Electroreduction. ACS Catalysis, 2021, 11, 2473-2482.	5.5	92
38	Highly Stable Alkaline Polymer Electrolyte Based on a Poly(ether ether ketone) Backbone. ACS Applied Materials & Interfaces, 2013, 5, 13405-13411.	4.0	91
39	Spatially Resolved Quantification of the Surface Reactivity of Solid Catalysts. Angewandte Chemie - International Edition, 2016, 55, 6239-6243.	7.2	87
40	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
41	Aminothiazole-derived N,S,Fe-doped graphene nanosheets as high performance electrocatalysts for oxygen reduction. Chemical Communications, 2015, 51, 17092-17095.	2.2	85
42	Alkaline polymer electrolyte fuel cells: Principle, challenges, and recent progress. Science China Chemistry, 2010, 53, 357-364.	4.2	80
43	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
44	Non-Pt Anode Catalysts for Alkaline Direct Alcohol Fuel Cells. Chinese Journal of Catalysis, 2007, 28, 870-874.	6.9	77
45	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
46	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
47	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
48	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
49	Composite anion exchange membrane for alkaline direct methanol fuel cell: Structural and electrochemical characterization. Journal of Applied Polymer Science, 2006, 100, 2248-2251.	1.3	73
50	Direct Observation of Electrocatalytic Synergy. Journal of the American Chemical Society, 2007, 129, 11033-11035.	6.6	72
51	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
52	Direct determination of diffusion coefficient for borohydride anions in alkaline solutions using chronoamperometry with spherical Au electrodes. Journal of Electroanalytical Chemistry, 2005, 585, 191-196.	1.9	70
53	AuCu intermetallic nanoparticles: surfactant-free synthesis and novel electrochemistry. Journal of Materials Chemistry, 2012, 22, 15769.	6.7	68
54	Structure-activity relationship in high-performance iron-based electrocatalysts for oxygen reduction reaction. Journal of Power Sources, 2015, 300, 279-284.	4.0	68

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55	A Many-Body Dissipative Particle Dynamics Study of Spontaneous Capillary Imbibition and Drainage. Langmuir, 2010, 26, 9533-9538.	1.6	66
56	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
57	A Many-Body Dissipative Particle Dynamics Study of Forced Waterâ€“Oil Displacement in Capillary. Langmuir, 2012, 28, 1330-1336.	1.6	65
58	Large-Scale Synthesis of Metal-Ion-Doped Manganese Dioxide for Enhanced Electrochemical Performance. ACS Applied Materials & Interfaces, 2016, 8, 8474-8480.	4.0	63
59	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
60	Varying the microphase separation patterns of alkaline polymer electrolytes. Journal of Materials Chemistry A, 2016, 4, 4071-4081.	5.2	61
61	High-Performance Ga₂O₃ Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5519-5526.	4.0	60
62	High throughput screening of electrocatalysts for fuel cell applications. Review of Scientific Instruments, 2006, 77, 054104.	0.6	59
63	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
64	Ultrathin composite membrane of alkaline polymer electrolyte for fuel cell applications. Journal of Materials Chemistry A, 2013, 1, 12497.	5.2	56
65	Cheap carbon black-based high-performance electrocatalysts for oxygen reduction reaction. Chemical Communications, 2015, 51, 1972-1975.	2.2	55
66	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
67	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
68	Ni(OH)2-Ni/C for hydrogen oxidation reaction in alkaline media. Journal of Energy Chemistry, 2019, 29, 111-115.	7.1	51
69	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
70	Inhibition Effect of Surface Oxygenated Species on Ammonia Oxidation Reaction. Journal of Physical Chemistry C, 2011, 115, 23050-23056.	1.5	47
71	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
72	Customizable CO₂ Electroreduction to C₁ or C₂₊ Products through Cu_y/CeO₂ Interface Engineering. ACS Catalysis, 2022, 12, 1004-1011.	5.5	47

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73	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
74	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
75	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
76	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
77	Carbonation effects on the performance of alkaline polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2015, 40, 6655-6660.	3.8	42
78	Direct Regeneration of Spent Li-Ion Battery Cathodes via Chemical Relithiation Reaction. ACS Sustainable Chemistry and Engineering, 2021, 9, 16384-16393.	3.2	42
79	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
80	High-Performance Ru ₂ P Anodic Catalyst for Alkaline Polymer Electrolyte Fuel Cells. CCS Chemistry, 2022, 4, 1732-1744.	4.6	39
81	Twist and sliding dynamics between interpenetrated frames in Ti-MOF revealing high proton conductivity. Chemical Science, 2020, 11, 3978-3985.	3.7	38
82	Regulation of the activity, selectivity, and durability of Cu-based electrocatalysts for CO2 reduction. Science China Chemistry, 2021, 64, 1660-1678.	4.2	38
83	Synthesis and characterization of polyurethane-chitosan interpenetrating polymer networks. Journal of Applied Polymer Science, 1998, 68, 1321-1329.	1.3	37
84	Simultaneous electrochemicalâ€“ESRâ€“conductivity measurements of polyaniline. Journal of Electroanalytical Chemistry, 2000, 493, 135-140.	1.9	37
85	Rational determination of exchange current density for hydrogen electrode reactions at carbon-supported Pt catalysts. Electrochimica Acta, 2010, 55, 844-850.	2.6	37
86	Promoting the photoanode efficiency for water splitting by combining hematite and molecular Ru catalysts. Electrochemistry Communications, 2013, 27, 148-151.	2.3	37
87	Effect of Micromorphology on Alkaline Polymer Electrolyte Stability. ACS Applied Materials & Interfaces, 2019, 11, 469-477.	4.0	36
88	Uniform graphene on liquid metal by chemical vapour deposition at reduced temperature. Carbon, 2016, 96, 799-804.	5.4	35
89	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
90	Proton Diffusion Determination and Dual Structure Model for Nickel Hydroxide Based on Potential Step Measurements on Single Spherical Beads. Journal of Physical Chemistry B, 2005, 109, 3860-3867.	1.2	32

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91	A Currentâ˜Decomposition Study of the Borohydride Oxidation Reaction at Ni Electrodes. Journal of Physical Chemistry C, 2007, 111, 7456-7462.	1.5	32
92	Aggregated and ionic cross-linked anion exchange membrane with enhanced hydroxide conductivity and stability. Journal of Power Sources, 2020, 459, 227838.	4.0	32
93	Pattern Recognition on the Structureâ˜Activity Relationship of Nano Ptâ˜Ru Catalysts:Â Methodology and Preliminary Demonstration. Journal of Physical Chemistry B, 2005, 109, 8873-8879.	1.2	31
94	Interconversion of polarons and bipolarons of polyaniline during the electrochemical polymerization of aniline. Journal of Electroanalytical Chemistry, 1998, 446, 107-112.	1.9	29
95	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
96	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
97	Powerful Thermogalvanic Cells Based on a Reversible Hydrogen Electrode and Gas-Containing Electrolytes. ACS Energy Letters, 2019, 4, 1810-1815.	8.8	28
98	Nitrogen-doping induces tunable magnetism in ReS2. Npj 2D Materials and Applications, 2018, 2, .	3.9	27
99	A high-throughput search for direct methanol fuel cell anode electrocatalysts of type PtxBiyPbz. Applied Surface Science, 2007, 254, 653-661.	3.1	26
100	A many-body dissipative particle dynamics study of fluidâ€“fluid spontaneous capillary displacement. RSC Advances, 2014, 4, 6545.	1.7	26
101	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
102	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
103	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
104	In situ ESR studies over wide temperature range for conducting polymers. Electrochemistry Communications, 2002, 4, 733-736.	2.3	24
105	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
106	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
107	Electrochemical CO2 reduction on heterogeneous cobalt phthalocyanine catalysts with different carbon supports. Chemical Physics Letters, 2020, 754, 137655.	1.2	24
108	Alkaline polymer electrolyte fuel cells without anode humidification and H2 emission. Journal of Power Sources, 2020, 472, 228471.	4.0	23

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109	Determination of the ionic resistance in a porous electrode using chronocoulometry. Journal of Electroanalytical Chemistry, 2002, 519, 137-144.	1.9	22
110	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
111	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
112	Highly Efficient Molecular Cobalt Electrode for (Photo)electrochemical Hydrogen Evolution. Journal of Physical Chemistry C, 2014, 118, 20791-20798.	1.5	21
113	Spatially Resolved Quantification of the Surface Reactivity of Solid Catalysts. Angewandte Chemie, 2016, 128, 6347-6351.	1.6	21
114	Optimization strategy for fuel-cell catalysts based on electronic effects. RSC Advances, 2011, 1, 1358.	1.7	20
115	Hydrophobic Side-Chain Attached Polyarylether-Based Anion Exchange Membranes with Enhanced Alkaline Stability. ACS Applied Energy Materials, 2019, 2, 8052-8059.	2.5	20
116	A stable zinc-based secondary battery realized by anion-exchange membrane as the separator. Journal of Power Sources, 2021, 486, 229376.	4.0	20
117	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
118	Water induced phase segregation in hydrocarbon proton exchange membranes. Journal of Energy Chemistry, 2018, 27, 1517-1520.	7.1	19
119	Two-Dimensional Ga₂O₃/C Nanosheets as Durable and High-Rate Anode Material for Lithium Ion Batteries. Langmuir, 2019, 35, 13607-13613.	1.6	19
120	In-situ ESR study on electrochemical lithium intercalation into petroleum coke. Journal of Electroanalytical Chemistry, 1995, 397, 315-319.	1.9	18
121	A preliminary study of direct borazane fuel cell. Journal of Power Sources, 2007, 165, 125-127.	4.0	18
122	Influence of cation on the cellulose dissolution investigated by MD simulation and experiments. Cellulose, 2017, 24, 4641-4651.	2.4	18
123	NiGa2O4/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8025-8031.	4.0	18
124	Electronic Modulation of Ru Nanosheet by dâ€“d Orbital Coupling for Enhanced Hydrogen Oxidation Reaction in Alkaline Electrolytes. Small, 2022, 18, .	5.2	18
125	Synthesis and characterization of quaternized poly(4-vinylpyridine-co-styrene) membranes. Journal of Applied Polymer Science, 2005, 96, 2146-2153.	1.3	17
126	Highly conductive and stable hybrid ionic cross-linked sulfonated PEEK for fuel cell. Electrochimica Acta, 2018, 291, 353-361.	2.6	17

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127	Hydrogen oxidation reaction on modified platinum model electrodes in alkaline media. Electrochimica Acta, 2019, 327, 135016.	2.6	17
128	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
129	A mechanistic study of borohydride anodic oxidation. Catalysis Today, 2011, 170, 99-109.	2.2	16
130	Ionic Conductivity of Pure Water in Charged Porous Matrix. ChemPhysChem, 2012, 13, 514-519.	1.0	16
131	Viologen/Bromide Dual-Redox Electrochemical Capacitor with Two-Electron Reduction of Viologen. ACS Applied Materials & Interfaces, 2019, 11, 41215-41221.	4.0	16
132	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
133	Eight-electron oxidation of borohydride at potentials negative to reversible hydrogen electrode. Journal of Power Sources, 2008, 185, 892-894.	4.0	15
134	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
135	A morphology effect of hematite photoanode for photoelectrochemical water oxidation. RSC Advances, 2014, 4, 37701.	1.7	14
136	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
137	Conductivity and Stability Properties of Anion Exchange Membranes: Cation Effect and Backbone Effect. ChemSusChem, 2021, 14, 5021-5031.	3.6	14
138	Flexible cell designs for simultaneous electrochemical electron spin resonance measurements with a coaxial microwave cavity. Review of Scientific Instruments, 2000, 71, 4242.	0.6	13
139	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
140	Determination of Ionic Conductivity and Its Impact on Proton Diffusion Model for Nickel Hydroxide. Journal of Physical Chemistry B, 2006, 110, 2057-2063.	1.2	12
141	Bond-energy decoupling: principle and application to heterogeneous catalysis. Chemical Science, 2013, 4, 606-611.	3.7	12
142	Effective Fluid Front of the Moving Meniscus in Capillary. Langmuir, 2013, 29, 3269-3273.	1.6	11
143	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
144	Imidazolium Ions with an Alcohol Substituent for Enhanced Electrocatalytic Reduction of CO₂. ChemSusChem, 2017, 10, 4824-4828.	3.6	11

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145	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
146	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
147	Stomata-like metal peptide coordination polymer. Journal of Materials Chemistry A, 2017, 5, 23440-23445.	5.2	9
148	Deducing the Density of Electronic States at the Fermi Level for Lithiated Carbons Using Combined Electrochemical and Electron Spin Resonance Measurements. Journal of Physical Chemistry B, 2003, 107, 7783-7787.	1.2	8
149	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
150	Preanodized Cu Surface for Selective CO₂ Electroreduction to C₁ or C₂₊ Products. ACS Applied Materials & Interfaces, 2022, 14, 20953-20961.	4.0	8
151	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
152	Quantitative Propertyâ€“Activity Relationship of PtRu/C Catalysts for Methanol Oxidation. ChemPhysChem, 2008, 9, 1986-1988.	1.0	6
153	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
154	Intermetallic Pt2Si: magnetron-sputtering preparation and electrocatalysis toward ethanol oxidation. Journal of Energy Chemistry, 2014, 23, 265-268.	7.1	6
155	The Evolution of ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 1-1.	3.2	6
156	Hydrogen Oxidation Reaction on Pdâ€Ni(OH) 2 Composite Electrocatalysts in an Alkaline Electrolyte. ChemistrySelect, 2020, 5, 7803-7807.	0.7	6
157	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
158	Ultrathin Self-Cross-Linked Alkaline Polymer Electrolyte Membrane for APEFC Applications. ACS Applied Energy Materials, 2021, 4, 4297-4301.	2.5	5
159	Application of rock-salt-type Coâ€“Mn oxides for alkaline polymer electrolyte fuel cells. Journal of Power Sources, 2022, 520, 230868.	4.0	5
160	In-situ ESR evidence for the polaron lattice model for conducting polymers. Synthetic Metals, 2003, 135-136, 473-474.	2.1	4
161	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
162	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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163	Development in potential-modulated ESR technique. Journal of Electroanalytical Chemistry, 1997, 429, 115-120.	1.9	3
164	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
165	Efficient solar-to-chemical conversion with chlorine photoanode. Electrochemistry Communications, 2016, 67, 69-72.	2.3	3
166	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
167	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
168	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
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170	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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