Jinli Qiao

List of Publications by Year in descending order

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172 papers	15,328 citations	26610 56 h-index	18633 119 g-index
175 all docs	175 docs citations	175 times ranked	17182 citing authors

#	Article	IF	Citations
1	A review of electrolyte materials and compositions for electrochemical supercapacitors. Chemical Society Reviews, 2015, 44, 7484-7539.	18.7	2,723
2	A review of catalysts for the electroreduction of carbon dioxide to produce low-carbon fuels. Chemical Society Reviews, 2014, 43, 631-675.	18.7	2,360
3	Alkaline polymer electrolyte membranes for fuel cell applications. Chemical Society Reviews, 2013, 42, 5768.	18.7	540
4	A review of high temperature co-electrolysis of H₂O and CO₂to produce sustainable fuels using solid oxide electrolysis cells (SOECs): advanced materials and technology. Chemical Society Reviews, 2017, 46, 1427-1463.	18.7	515
5	A Review of Grapheneâ€Based Nanostructural Materials for Both Catalyst Supports and Metalâ€Free Catalysts in PEM Fuel Cell Oxygen Reduction Reactions. Advanced Energy Materials, 2014, 4, 1301523.	10.2	416
6	A review on water balance in the membrane electrode assembly of proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2009, 34, 9461-9478.	3.8	342
7	Harvesting the Vibration Energy of BiFeO₃ Nanosheets for Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 11779-11784.	7.2	277
8	A flexible solid-state electrolyte for wide-scale integration of rechargeable zincâ€“air batteries. Energy and Environmental Science, 2016, 9, 663-670.	15.6	275
9	New highly proton-conducting membrane poly(vinylpyrrolidone)(PVP) modified poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 methanol fuel cells (DMFCs). Polymer, 2005, 46, 10809-10816.	1.8	213
10	Nitrogen-Doped Carbon Nanotube and Graphene Materials for Oxygen Reduction Reactions. Catalysts, 2015, 5, 1574-1602.	1.6	183
11	â€œMore is Different:â€•Synergistic Effect and Structural Engineering in Doubleâ€Atom Catalysts. Advanced Functional Materials, 2021, 31, 2007423.	7.8	179
12	Application of phosphoric acid and phytic acid-doped bacterial cellulose as novel proton-conducting membranes to PEMFC. International Journal of Hydrogen Energy, 2012, 37, 9182-9192.	3.8	167
13	Highly Efficient Porous Carbon Electrocatalyst with Controllable Nâ€Species Content for Selective CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 3244-3251.	7.2	167
14	3-Dimensional porous N-doped graphene foam as a non-precious catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 3343-3350.	5.2	163
15	Efficient quantum dots anchored nanocomposite for highly active ORR/OER electrocatalyst of advanced metal-air batteries. Nano Energy, 2019, 57, 176-185.	8.2	162
16	Alkaline solid polymer electrolyte membranes based on structurally modified PVA/PVP with improved alkali stability. Polymer, 2010, 51, 4850-4859.	1.8	157
17	Degradation of Perfluorinated Ionomer Membranes for PEM Fuel Cells during Processing with H[sub 2]O[sub 2]. Journal of the Electrochemical Society, 2006, 153, A967.	1.3	134
18	Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. Nano Energy, 2019, 61, 86-95.	8.2	134

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19	Chemically Modified Poly(vinyl alcohol)â^'Poly(2-acrylamido-2-methyl-1-propanesulfonic acid) as a Novel Proton-Conducting Fuel Cell Membrane. Chemistry of Materials, 2005, 17, 2413-2421.	3.2	123
20	Atomically Dispersed Transition Metal-Nitrogen-Carbon Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries: Recent Advances and Future Perspectives. Nano-Micro Letters, 2022, 14, 36.	14.4	117
21	Proton exchange membrane fuel cell degradation under close to open-circuit conditions. Journal of Power Sources, 2010, 195, 1171-1176.	4.0	112
22	Freeâ€Standing Functionalized Graphene Oxide Solid Electrolytes in Electrochemical Gas Sensors. Advanced Functional Materials, 2016, 26, 1729-1736.	7.8	110
23	PEM fuel cell electrocatalysts based on transition metal macrocyclic compounds. Coordination Chemistry Reviews, 2016, 315, 153-177.	9.5	110
24	Hydroxide ion conducting polymer electrolytes and their applications in solid supercapacitors: A review. Energy Storage Materials, 2020, 24, 6-21.	9.5	108
25	Enhancing CO2 electrolysis to formate on facilely synthesized Bi catalysts at low overpotential. Applied Catalysis B: Environmental, 2017, 218, 46-50.	10.8	101
26	Fe/Co Double Hydroxide/Oxide Nanoparticles on Nâ€Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasiâ€Solidâ€State Zincâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1801836.	10.2	94
27	Unravelling the origin of bifunctional OER/ORR activity for single-atom catalysts supported on C₂N by DFT and machine learning. Journal of Materials Chemistry A, 2021, 9, 16860-16867.	5.2	93
28	New highly proton conductive polymer membranes poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (alcohol)â€“2-acrylamido-2- 2005, 15, 4414.	6.7	91
29	Co₃O₄/MnO₂/Hierarchically Porous Carbon as Superior Bifunctional Electrodes for Liquid and All-Solid-State Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2018, 10, 15591-15601.	4.0	89
30	3D coreâ€“shell porous-structured Cu@Sn hybrid electrodes with unprecedented selective CO₂-into-formate electroreduction achieving 100%. Journal of Materials Chemistry A, 2019, 7, 3197-3205.	5.2	88
31	Self-growing Cu/Sn bimetallic electrocatalysts on nitrogen-doped porous carbon cloth with 3D-hierarchical honeycomb structure for highly active carbon dioxide reduction. Applied Catalysis B: Environmental, 2020, 264, 118447.	10.8	88
32	Free-radical-initiated strategy aiming for pitch-based dual-doped carbon nanosheets engaged into high-energy asymmetric supercapacitors. Energy Storage Materials, 2020, 26, 119-128.	9.5	85
33	Graphiticâ€shell encapsulated FeNi alloy/nitride nanocrystals on biomassâ€derived Nâ€doped carbon as an efficient electrocatalyst for rechargeable Znâ€air battery. , 2021, 3, 176-187.		85
34	Scalable synthesis of hierarchical macropore-rich activated carbon microspheres assembled by carbon nanoparticles for high rate performance supercapacitors. Journal of Power Sources, 2017, 342, 363-370.	4.0	83
35	Highly active electrocatalysts for oxygen reduction from carbon-supported copper-phthalocyanine synthesized by high temperature treatment. International Journal of Hydrogen Energy, 2012, 37, 14103-14113.	3.8	82
36	Novel hierarchical SnO2 microsphere catalyst coated on gas diffusion electrode for enhancing energy efficiency of CO2 reduction to formate fuel. Applied Energy, 2016, 175, 536-544.	5.1	82

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37	Highly stable hydroxyl anion conducting membranes poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (alcohol)/poly(acry) Effect of cross-linking. International Journal of Hydrogen Energy, 2012, 37, 4580-4589.	3.8	81
38	A review of radiation-grafted polymer electrolyte membranes for alkaline polymer electrolyte membrane fuel cells. Journal of Power Sources, 2015, 293, 946-975.	4.0	80
39	Cross-linked poly(vinyl alcohol)/poly (diallyldimethylammonium chloride) as anion-exchange membrane for fuel cell applications. Journal of Power Sources, 2013, 240, 359-367.	4.0	78
40	Alkali doped poly(vinyl alcohol) for potential fuel cell applications. Synthetic Metals, 2010, 160, 193-199.	2.1	75
41	Harvesting the Vibration Energy of BiFeO₃ Nanosheets for Hydrogen Evolution. Angewandte Chemie, 2019, 131, 11905-11910.	1.6	75
42	Controllable Hortensia-like MnO₂ Synergized with Carbon Nanotubes as an Efficient Electrocatalyst for Long-Term Metalâ€“Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 578-587.	4.0	72
43	Formation of Cu nanostructured electrode surfaces by an annealingâ€“electroreduction procedure to achieve high-efficiency CO2 electroreduction. Electrochemistry Communications, 2014, 38, 8-11.	2.3	71
44	Facile synthesis of NiCo2O4 nanosphere-carbon nanotubes hybrid as an efficient bifunctional electrocatalyst for rechargeable Znâ€“air batteries. International Journal of Hydrogen Energy, 2016, 41, 9211-9218.	3.8	71
45	A large-scale synthesis of heteroatom (N and S) co-doped hierarchically porous carbon (HPC) derived from polyquaternium for superior oxygen reduction reactivity. Green Chemistry, 2016, 18, 2699-2709.	4.6	70
46	High-performance binary cross-linked alkaline anion polymer electrolyte membranes for all-solid-state supercapacitors and flexible rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 11257-11264.	5.2	70
47	Morphology controlled La2O3/Co3O4/MnO2â€“CNTs hybrid nanocomposites with durable bi-functional air electrode in high-performance zincâ€“air energy storage. Applied Energy, 2016, 175, 495-504.	5.1	68
48	In situ growth of CoP nanoparticles anchored on (N,P) co-doped porous carbon engineered by MOFs as advanced bifunctional oxygen catalyst for rechargeable Znâ€“air battery. Journal of Materials Chemistry A, 2020, 8, 19043-19049.	5.2	68
49	Small mesopore engineering of pitch-based porous carbons toward enhanced supercapacitor performance. Chemical Engineering Journal, 2020, 399, 125818.	6.6	68
50	High durable poly(vinyl alcohol)/Quaterized hydroxyethylcellulose ethoxylate anion exchange membranes for direct methanol alkaline fuel cells. Journal of Power Sources, 2013, 227, 291-299.	4.0	63
51	Effects of transition metal precursors (Co, Fe, Cu, Mn, or Ni) on pyrolyzed carbon supported metal-aminopyrine electrocatalysts for oxygen reduction reaction. RSC Advances, 2015, 5, 6195-6206.	1.7	63
52	Separated growth of Bi-Cu bimetallic electrocatalysts on defective copper foam for highly converting CO2 to formate with alkaline anion-exchange membrane beyond KHCO3 electrolyte. Applied Catalysis B: Environmental, 2021, 288, 120003.	10.8	63
53	N/S-Me (Fe, Co, Ni) doped hierarchical porous carbons for fuel cell oxygen reduction reaction with high catalytic activity and long-term stability. Applied Energy, 2016, 175, 468-478.	5.1	62
54	Heteroatom (B, N and P) doped porous graphene foams for efficient oxygen reduction reaction electrocatalysis. International Journal of Hydrogen Energy, 2018, 43, 12661-12670.	3.8	62

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55	High-performing rechargeable/flexible zinc-air batteries by coordinated hierarchical Bi-metallic electrocatalyst and heterostructure anion exchange membrane. Nano Energy, 2019, 65, 104021.	8.2	62
56	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. Applied Catalysis B: Environmental, 2020, 272, 118953.	10.8	62
57	A self-supported electrode as a high-performance binder- and carbon-free cathode for rechargeable hybrid zinc batteries. Energy Storage Materials, 2020, 24, 272-280.	9.5	61
58	Carbonâ€based metalâ€free catalysts for electrochemical CO₂ reduction: Activity, selectivity, and stability. , 2021, 3, 24-49.		60
59	Metalâ€“Nitrogenâ€“Carbon Catalysts of Specifically Coordinated Configurations toward Typical Electrochemical Redox Reactions. Advanced Materials, 2021, 33, e2100997.	11.1	60
60	Nitrogen and Sulfur Co-doped Mesoporous Carbon Materials as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction. Electrochimica Acta, 2014, 145, 259-269.	2.6	59
61	Rational Surface Tailoring Oxygen Functional Groups on Carbon Spheres for Capacitive Mechanistic Study. ACS Applied Materials & Interfaces, 2019, 11, 13214-13224.	4.0	58
62	Preparation of Nitrogen and Sulfur dual-doped Mesoporous Carbon for Supercapacitor Electrodes with Long Cycle Stability. Electrochimica Acta, 2015, 177, 327-334.	2.6	57
63	Self-assembly formation of Bi-functional Co3O4/MnO2-CNTs hybrid catalysts for achieving both high energy/power density and cyclic ability of rechargeable zinc-air battery. Scientific Reports, 2016, 6, 33590.	1.6	57
64	CoFe2O4 nanoparticles decorated carbon nanotubes: Air-cathode bifunctional catalysts for rechargeable zinc-air batteries. Catalysis Today, 2018, 318, 144-149.	2.2	57
65	Rational Design and Synthesis of SnO_x Electrocatalysts with Coralline Structure for Highly Improved Aqueous CO₂ Reduction to Formate. ChemElectroChem, 2016, 3, 1618-1628.	1.7	56
66	Aqueous CO₂ reduction on morphology controlled Cu_xO nanocatalysts at low overpotential. RSC Advances, 2014, 4, 44583-44591.	1.7	55
67	Polybenzimidazoles with pendant quaternary ammonium groups as potential anion exchange membranes for fuel cells. Journal of Membrane Science, 2012, 390-391, 152-159.	4.1	53
68	Highly-active copper oxide/copper electrocatalysts induced from hierarchical copper oxide nanospheres for carbon dioxide reduction reaction. Electrochimica Acta, 2015, 153, 559-565.	2.6	53
69	Alkaline Exchange Polymer Membrane Electrolyte for High Performance of All-Solid-State Electrochemical Devices. ACS Applied Materials & Interfaces, 2018, 10, 29593-29598.	4.0	52
70	Harvesting honeycomb-like carbon nanosheets with tunable mesopores from mild-modified coal tar pitch for high-performance flexible all-solid-state supercapacitors. Journal of Power Sources, 2020, 448, 227446.	4.0	52
71	Hierarchical porous N-doped graphene foams with superior oxygen reduction reactivity for polymer electrolyte membrane fuel cells. Applied Energy, 2016, 175, 459-467.	5.1	51
72	Using pyridine as nitrogen-rich precursor to synthesize Co-N-S/C non-noble metal electrocatalysts for oxygen reduction reaction. Applied Catalysis B: Environmental, 2012, 125, 197-205.	10.8	50

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73	3D hollow sphere Co3O4/MnO2-CNTs: Its high-performance bi-functional cathode catalysis and application in rechargeable zinc-air battery. Green Energy and Environment, 2017, 2, 316-328.	4.7	50
74	Polyethylene glycol induced reconstructing Bi nanoparticle size for stabilized CO2 electroreduction to formate. Journal of Catalysis, 2018, 365, 63-70.	3.1	50
75	Electrochemical Reduction of CO₂ by SnO_x Nanosheets Anchored on Multiwalled Carbon Nanotubes with Tunable Functional Groups. ChemSusChem, 2019, 12, 1443-1450.	3.6	50
76	Novel Alkaline Anion-exchange Membranes Based on Chitosan/Ethenylmethylimidazoliumchloride Polymer with Ethenylpyrrolidone Composites for Low Temperature Polymer Electrolyte Fuel Cells. Electrochimica Acta, 2015, 177, 137-144.	2.6	47
77	Template-free synthesis of hierarchical yolk-shell Co and N codoped porous carbon microspheres with enhanced performance for oxygen reduction reaction. Journal of Power Sources, 2015, 288, 128-135.	4.0	46
78	Uncovering the nature of electroactive sites in nano architectured dendritic Bi for highly efficient CO2 electroreduction to formate. Applied Catalysis B: Environmental, 2020, 274, 119031.	10.8	46
79	High molecular weight PVA-modified PVA/PAMPS proton-conducting membranes with increased stability and their application in DMFCs. Solid State Ionics, 2009, 180, 1318-1323.	1.3	45
80	Fe/N/S-composited hierarchically porous carbons with optimized surface functionality, composition and nanoarchitecture as electrocatalysts for oxygen reduction reaction. Journal of Catalysis, 2017, 352, 208-217.	3.1	44
81	Anion conducting poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) membranes with high durable alkaline stability for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2013, 237, 1-4.	4.0	43
82	Template-free synthesis of three-dimensional nanoporous N-doped graphene for high performance fuel cell oxygen reduction reaction in alkaline media. Applied Energy, 2016, 175, 405-413.	5.1	43
83	Simultaneous formation of nitrogen and sulfur-doped transition metal catalysts for oxygen reduction reaction through pyrolyzing carbon-supported copper phthalocyanine tetrasulfonic acid tetrasodium salt. Journal of Power Sources, 2014, 266, 88-98.	4.0	41
84	Bismuth Anchored on MWCNTs with Controlled Ultrafine Nanosize Enables High-Efficient Electrochemical Reduction of Carbon Dioxide to Formate Fuel. ACS Sustainable Chemistry and Engineering, 2020, 8, 4871-4876.	3.2	40
85	Metalâ€“Organic-Frameworks-Derived Cu/Cu₂O Catalyst with Ultrahigh Current Density for Continuous-Flow CO₂ Electroreduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 15739-15746.	3.2	39
86	The design of Fe, N-doped hierarchically porous carbons as highly active and durable electrocatalysts for a Znâ€“air battery. Physical Chemistry Chemical Physics, 2016, 18, 18665-18669.	1.3	37
87	Kinetics and electrocatalytic activity of nanostructured Irâ€“V/C for oxygen reduction reaction. Electrochimica Acta, 2010, 55, 8490-8497.	2.6	36
88	Superior stability of a bifunctional oxygen electrode for primary, rechargeable and flexible Znâ€“air batteries. Nanoscale, 2018, 10, 13626-13637.	2.8	36
89	Proton conducting behavior of a novel polymeric gel membrane based on poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	4.0	35
90	Synthesis and properties of chemically cross-linked poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (alcohol)â€“poly(acrylamide-c membranes. Solid State Ionics, 2012, 214, 6-12.	1.3	35

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91	Hydroxyl anion conducting membranes poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) for alkaline fuel cell applications: Effect of molecular weight. Electrochimica Acta, 2013, 111, 351-358.	2.6	35
92	Lattice reconstruction of La-incorporated CsPbI₂Br with suppressed phase transition for air-processed all-inorganic perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 3351-3358.	2.7	35
93	Electrochemical Performance of Carbon-Supported Co-Phthalocyanine Modified with Co-Added Metals (M = Fe, Co, Ni, V) for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2012, 159, F577-F584.	1.3	34
94	Self-assembly formation of hollow Ni-Fe-O nanocage architectures by metal-organic frameworks with high-performance lithium storage. Scientific Reports, 2015, 5, 13310.	1.6	34
95	Electrochemical behavior of nanostructured nickel phthalocyanine (NiPc/C) for oxygen reduction reaction in alkaline media. Journal of Applied Electrochemistry, 2013, 43, 43-51.	1.5	33
96	New highly proton-conducting membrane based on sulfonated poly(arylene ether sulfone)s containing fluorophenyl pendant groups, for low-temperature polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2014, 39, 2639-2648.	3.8	33
97	Selective formation of C2 products from the electrochemical conversion of CO2 on CuO-derived copper electrodes comprised of nanoporous ribbon arrays. Catalysis Today, 2017, 288, 18-23.	2.2	33
98	Achieving high-powered Zn/air fuel cell through N and S co-doped hierarchically porous carbons with tunable active-sites as oxygen electrocatalysts. Journal of Power Sources, 2017, 365, 348-353.	4.0	33
99	A novel composite (FMC) to serve as a durable 3D-clam-shaped bifunctional cathode catalyst for both primary and rechargeable zinc-air batteries. Science Bulletin, 2017, 62, 1216-1226.	4.3	33
100	Rational fabrication of thin-layered NiCo2S4 loaded graphene as bifunctional non-oxide catalyst for rechargeable zinc-air batteries. Electrochimica Acta, 2020, 342, 136108.	2.6	33
101	Novel proton-conducting polymer electrolyte membranes based on PVA/PAMPS/PEG400 blend. Journal of Power Sources, 2006, 156, 311-314.	4.0	32
102	Metalâ€Organicâ€Frameworkâ€Derived Co Nanoparticles Deposited on Nâ€Doped Bimodal Mesoporous Carbon Nanorods as Efficient Bifunctional Catalysts for Rechargeable Zincâ"Air Batteries. ChemElectroChem, 2018, 5, 1868-1873.	1.7	32
103	Bimetallic Sulfide with Controllable Mg Substitution Anchored on CNTs as Hierarchical Bifunctional Catalyst toward Oxygen Catalytic Reactions for Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 37164-37172.	4.0	32
104	In-situ growth of CoNi bimetal anchored on carbon nanoparticle/nanotube hybrid for boosting rechargeable Zn-air battery. Journal of Energy Chemistry, 2022, 66, 348-355.	7.1	32
105	Ultrafine porous carbon fiber and its supported platinum catalyst for enhancing performance of proton exchange membrane fuel cells. Electrochimica Acta, 2015, 177, 174-180.	2.6	31
106	Design and engineering of urchin-like nanostructured SnO2 catalysts via controlled facial hydrothermal synthesis for efficient electro-reduction of CO2. Electrochimica Acta, 2017, 248, 123-132.	2.6	31
107	Poly(vinyl alcohol)/Poly(diallyldimethylammonium chloride) anion-exchange membrane modified with multiwalled carbon nanotubes for alkaline fuel cells. Journal of Materiomics, 2019, 5, 286-295.	2.8	30
108	Poly(ethylene glycol) plasticized poly(vinyl alcohol)/poly(acrylamide-co-diallyldimethylammonium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2013, 167, 43-50.	2.1	28

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109	Hierarchical Porous Carbon Derived from Coal Tar Pitch Containing Discrete Coâ€“Nxâ€“C Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Znâ€“Air Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 8587-8596.	3.2	28
110	Continuous electroreduction of carbon dioxide to formate on Tin nanoelectrode using alkaline membrane cell configuration in aqueous medium. Catalysis Today, 2018, 318, 32-38.	2.2	27
111	Exploiting a High-Performance â€œDouble-Carbonâ€•Structure Co9S8/GN Bifunctional Catalysts for Rechargeable Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 38202-38210.	4.0	26
112	Electro-conversion of methane to alcohols on â€œcapsule-likeâ€•binary metal oxide catalysts. Applied Catalysis B: Environmental, 2021, 282, 119572.	10.8	26
113	Metal chalcogenide-associated catalysts enabling CO₂ electroreduction to produce low-carbon fuels for energy storage and emission reduction: catalyst structure, morphology, performance, and mechanism. Journal of Materials Chemistry A, 2021, 9, 2526-2559.	5.2	26
114	Carbon-supported co-pyridine as non-platinum cathode catalyst for alkaline membrane fuel cells. Electrochimica Acta, 2013, 96, 298-305.	2.6	25
115	Novel composite Nafion membranes modified with copper phthalocyanine tetrasulfonic acid tetrasodium salt for fuel cell application. Journal of Materiomics, 2019, 5, 252-257.	2.8	25
116	In-situ growth of CuO/Cu nanocomposite electrode for efficient CO2 electroreduction to CO with bacterial cellulose as support. Journal of CO2 Utilization, 2020, 37, 188-194.	3.3	25
117	A facile one-step preparation of a Pdâ€“Co bimetallic hollow nanosphere electrocatalyst for ethanol oxidation. Catalysis Science and Technology, 2013, 3, 2843.	2.1	24
118	Imidazolium-Functionalized Anion Exchange Polymer Electrolytes with High Tensile Strength and Stability for Alkaline Membrane Fuel Cells. Electrochimica Acta, 2015, 177, 201-208.	2.6	24
119	Dual-active-sites design of CoSx anchored on nitrogen-doped carbon with tunable mesopore enables efficient Bi-Functional oxygen catalysis for ultra-stable zinc-air batteries. Journal of Power Sources, 2019, 438, 226953.	4.0	24
120	Effect of metal particle size and Nafion content on performance of MEA using Ir-V/C as anode catalyst. International Journal of Hydrogen Energy, 2010, 35, 5528-5538.	3.8	23
121	Proton conductance and spectroscopic characteristics of acid-doped polymer gels based on poly(ethylene oxide)-modified polymethacrylate. Solid State Ionics, 2003, 156, 415-424.	1.3	22
122	Carbon-supported Irâ€“V nanoparticle as novel platinum-free anodic catalysts in proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2009, 34, 5144-5151.	3.8	21
123	A Proton Conductor Based on a Polymeric Complex of Poly(Ethylene Oxide)-Modified Poly(Methacrylate) with Anhydrous H3PO4. Chemistry of Materials, 2003, 15, 2005-2010.	3.2	20
124	Highly Stabilized Zincâ€Air Batteries Based on Nanostructured Co₃O₄ Composites as Efficient Bifunctional Electrocatalyst. ChemElectroChem, 2018, 5, 1976-1984.	1.7	20
125	Highly Efficient Porous Carbon Electrocatalyst with Controllable Nâ€Species Content for Selective CO 2 Reduction. Angewandte Chemie, 2020, 132, 3270-3277.	1.6	20
126	Transition metal-tetracyanoquinodimethane monolayers as single-atom catalysts for the electrocatalytic nitrogen reduction reaction. Materials Advances, 2020, 1, 1285-1292.	2.6	20

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127	Hierarchical bifunctional catalysts with tailored catalytic activity for high-energy rechargeable Zn-air batteries. Applied Energy, 2020, 279, 115876.	5.1	20
128	Highly Durable, Proton-Conducting Semi-interpenetrating Polymer Networks from PVA/PAMPS Composites by Incorporating Plasticizer Variants. Electrochemical and Solid-State Letters, 2006, 9, A379.	2.2	19
129	Synthesis of a highly active carbon-supported Irâ€“V/C catalyst for the hydrogen oxidation reaction in PEMFC. Electrochimica Acta, 2009, 54, 5614-5620.	2.6	19
130	Promoter Effects of Functional Groups of Hydroxide-Conductive Membranes on Advanced CO₂ Electroreduction to Formate. ACS Applied Materials & Interfaces, 2019, 11, 6881-6889.	4.0	19
131	Nitrogen and sulfur co-doped mesoporous carbon as cathode catalyst for H2/O2 alkaline membrane fuel cell â€“ effect of catalyst/bonding layer loading. International Journal of Hydrogen Energy, 2016, 41, 9159-9166.	3.8	17
132	Investigation of polyacrylamide based hydroxide ion-conducting electrolyte and its application in all-solid electrochemical capacitors. Sustainable Energy and Fuels, 2017, 1, 1580-1587.	2.5	16
133	Insert Zn²⁺ in Tetrahedral Sites of Bi-metal Zn-Co Spinel Oxides with High Oxygen Catalytic Performance for Liquid and Flexible Zinc-Air Batteries. Journal of the Electrochemical Society, 2020, 167, 050512.	1.3	16
134	Ultrafine Mo₂C nanoparticles embedded in an MOF derived N and P co-doped carbon matrix for an efficient electrocatalytic oxygen reduction reaction in zincâ€“air batteries. Nanoscale, 2022, 14, 2065-2073.	2.8	16
135	Fabricating hydroxyl anion conducting membranes based on poly(vinyl alcohol) and bis(2-chloroethyl) ether-1,3-bis[3-(dimethylamino)propyl] urea copolymer with linear anion-exchange sites for polymer electrolyte membrane fuel cell. Solid State Ionics, 2017, 308, 112-120.	1.3	15
136	Multi-wall carbon nanotube-supported palladiumâ€“cobalt oxide nanoparticle as efficient catalyst for oxygen reduction reaction. Ionics, 2019, 25, 5929-5937.	1.2	15
137	Cu/S-Occupation Bifunctional Oxygen Catalysts for Advanced Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 52836-52844.	4.0	15
138	High PEMFC performance by applying Ir-V nanoparticles as a cathode catalyst. Applied Catalysis B: Environmental, 2009, 91, 198-203.	10.8	14
139	Aqueous-phase electrochemical reduction of CO2 based on SnO2CuO nanocomposites with improved catalytic activity and selectivity. Catalysis Today, 2018, 318, 2-9.	2.2	14
140	Carbon-Supported IrM (M=V, Mn, Fe, Co, and Ni) Binary Alloys as Anode Catalysts for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2009, 156, B436.	1.3	13
141	Morphology-controlled construction of hierarchical hollow hybrid SnO2@TiO2 nanocapsules with outstanding lithium storage. Scientific Reports, 2015, 5, 15252.	1.6	13
142	Advantageous Configurative Heteroatoms-Doped Carbon Foams Design and Application for Ultrahigh-Powered Znâ€“Air Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 731-738.	3.2	13
143	Application of a novel PUB enhanced semiâ€interpenetrating chitosanâ€based anion exchange membrane. International Journal of Energy Research, 2020, 44, 1607-1623.	2.2	12
144	Iron-tetracyanobenzene complex derived non-precious catalyst for oxygen reduction reaction. Electrochimica Acta, 2015, 162, 224-229.	2.6	11

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146	Evaluation of carbon-supported copper phthalocyanine (CuPc/C) as a cathode catalyst for fuel cells using Nafion as an electrolyte. Ionics, 2013, 19, 1415-1422.	1.2	10
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