

Jinli Qiao

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175
ext. papers

13,363
ext. citations

10.2
avg, IF

6.85
L-index

#	Paper	IF	Citations
168	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 7484-539	58.5	2002
167	A review of catalysts for the electroreduction of carbon dioxide to produce low-carbon fuels. <i>Chemical Society Reviews</i> , 2014 , 43, 631-75	58.5	1890
166	Alkaline polymer electrolyte membranes for fuel cell applications. <i>Chemical Society Reviews</i> , 2013 , 42, 5768-87	58.5	473
165	A Review of Graphene-Based Nanostructural Materials for Both Catalyst Supports and Metal-Free Catalysts in PEM Fuel Cell Oxygen Reduction Reactions. <i>Advanced Energy Materials</i> , 2014 , 4, 1301523	21.8	365
164	A review of high temperature co-electrolysis of H ₂ O and CO to produce sustainable fuels using solid oxide electrolysis cells (SOECs): advanced materials and technology. <i>Chemical Society Reviews</i> , 2017 , 46, 1427-1463	58.5	332
163	A review on water balance in the membrane electrode assembly of proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9461-9478	6.7	278
162	A flexible solid-state electrolyte for wide-scale integration of rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 663-670	35.4	194
161	New highly proton-conducting membrane poly(vinylpyrrolidone)(PVP) modified poly(vinyl alcohol)/2-acrylamido-2-methyl-1-propanesulfonic acid (PVABAMPS) for low temperature direct methanol fuel cells (DMFCs). <i>Polymer</i> , 2005 , 46, 10809-10816	3.9	186
160	Harvesting the Vibration Energy of BiFeO ₃ Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11779-11784	16.4	145
159	Nitrogen-Doped Carbon Nanotube and Graphene Materials for Oxygen Reduction Reactions. <i>Catalysts</i> , 2015 , 5, 1574-1602	4	145
158	3-Dimensional porous N-doped graphene foam as a non-precious catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3343-3350	13	142
157	Application of phosphoric acid and phytic acid-doped bacterial cellulose as novel proton-conducting membranes to PEMFC. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9182-9192	6.7	133
156	Alkaline solid polymer electrolyte membranes based on structurally modified PVA/PVP with improved alkali stability. <i>Polymer</i> , 2010 , 51, 4850-4859	3.9	133
155	Degradation of Perfluorinated Ionomer Membranes for PEM Fuel Cells during Processing with H ₂ O ₂ . <i>Journal of the Electrochemical Society</i> , 2006 , 153, A967	3.9	117
154	Chemically Modified Poly(vinyl alcohol)/Poly(2-acrylamido-2-methyl-1-propanesulfonic acid) as a Novel Proton-Conducting Fuel Cell Membrane. <i>Chemistry of Materials</i> , 2005 , 17, 2413-2421	9.6	114
153	Efficient quantum dots anchored nanocomposite for highly active ORR/OER electrocatalyst of advanced metal-air batteries. <i>Nano Energy</i> , 2019 , 57, 176-185	17.1	108
152	Proton exchange membrane fuel cell degradation under close to open-circuit conditions: Part I: In situ diagnosis. <i>Journal of Power Sources</i> , 2010 , 195, 1171-1176	8.9	92

151	Highly Efficient Porous Carbon Electrocatalyst with Controllable N-Species Content for Selective CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3244-3251	16.4	88
150	PEM fuel cell electrocatalysts based on transition metal macrocyclic compounds. <i>Coordination Chemistry Reviews</i> , 2016 , 315, 153-177	23.2	87
149	Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. <i>Nano Energy</i> , 2019 , 61, 86-95	17.1	82
148	New highly proton conductive polymer membranes poly(vinyl alcohol)-acrylamido-2-methyl-1-propanesulfonic acid (PVA/AMPS). <i>Journal of Materials Chemistry</i> , 2005 , 15, 4414		82
147	Free-Standing Functionalized Graphene Oxide Solid Electrolytes in Electrochemical Gas Sensors. <i>Advanced Functional Materials</i> , 2016 , 26, 1729-1736	15.6	81
146	Enhancing CO ₂ electrolysis to formate on facilely synthesized Bi catalysts at low overpotential. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 46-50	21.8	80
145	More is Different: Synergistic Effect and Structural Engineering in Double-Atom Catalysts. <i>Advanced Functional Materials</i> , 2021 , 31, 2007423	15.6	74
144	CoO/MnO/Hierarchically Porous Carbon as Superior Bifunctional Electrodes for Liquid and All-Solid-State Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15591-15601	9.5	73
143	Highly active electrocatalysts for oxygen reduction from carbon-supported copper-phthalocyanine synthesized by high temperature treatment. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14103-14113	6.7	73
142	Novel hierarchical SnO ₂ microsphere catalyst coated on gas diffusion electrode for enhancing energy efficiency of CO ₂ reduction to formate fuel. <i>Applied Energy</i> , 2016 , 175, 536-544	10.7	71
141	Fe/Co Double Hydroxide/Oxide Nanoparticles on N-Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasi-Solid-State Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801836	21.8	70
140	Formation of Cu nanostructured electrode surfaces by an annealing-electroreduction procedure to achieve high-efficiency CO ₂ electroreduction. <i>Electrochemistry Communications</i> , 2014 , 38, 8-11	5.1	69
139	Scalable synthesis of hierarchical macropore-rich activated carbon microspheres assembled by carbon nanoparticles for high rate performance supercapacitors. <i>Journal of Power Sources</i> , 2017 , 342, 363-370	8.9	66
138	Cross-linked poly(vinyl alcohol)/poly (diallyldimethylammonium chloride) as anion-exchange membrane for fuel cell applications. <i>Journal of Power Sources</i> , 2013 , 240, 359-367	8.9	66
137	Alkali doped poly(vinyl alcohol) for potential fuel cell applications. <i>Synthetic Metals</i> , 2010 , 160, 193-199	3.6	64
136	Highly stable hydroxyl anion conducting membranes poly(vinyl alcohol)/poly(acrylamide-co-diallyldimethylammonium chloride) (PVA/PAADDA) for alkaline fuel cells: Effect of cross-linking. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4580-4589	6.7	63
135	A large-scale synthesis of heteroatom (N and S) co-doped hierarchically porous carbon (HPC) derived from polyquaternium for superior oxygen reduction reactivity. <i>Green Chemistry</i> , 2016 , 18, 2699-2709	10	61
134	Facile synthesis of NiCo ₂ O ₄ nanosphere-carbon nanotubes hybrid as an efficient bifunctional electrocatalyst for rechargeable Zn-air batteries. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9211-9218	6.7	61

133	Hydroxide ion conducting polymer electrolytes and their applications in solid supercapacitors: A review. <i>Energy Storage Materials</i> , 2020 , 24, 6-21	19.4	61
132	A review of radiation-grafted polymer electrolyte membranes for alkaline polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2015 , 293, 946-975	8.9	59
131	Effects of transition metal precursors (Co, Fe, Cu, Mn, or Ni) on pyrolyzed carbon supported metal-aminopyrine electrocatalysts for oxygen reduction reaction. <i>RSC Advances</i> , 2015 , 5, 6195-6206	3.7	55
130	Morphology controlled La ₂ O ₃ /Co ₃ O ₄ /MnO ₂ -CNTs hybrid nanocomposites with durable bi-functional air electrode in high-performance zinc-air energy storage. <i>Applied Energy</i> , 2016 , 175, 495-504	10.7	55
129	Preparation of Nitrogen and Sulfur dual-doped Mesoporous Carbon for Supercapacitor Electrodes with Long Cycle Stability. <i>Electrochimica Acta</i> , 2015 , 177, 327-334	6.7	53
128	3D core-shell porous-structured Cu@Sn hybrid electrodes with unprecedented selective CO ₂ -into-formate electroreduction achieving 100%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3197-3205	5.3	52
127	Rational Design and Synthesis of SnO _x Electrocatalysts with Coralline Structure for Highly Improved Aqueous CO ₂ Reduction to Formate. <i>ChemElectroChem</i> , 2016 , 3, 1618-1628	4.3	52
126	Nitrogen and Sulfur Co-doped Mesoporous Carbon Materials as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2014 , 145, 259-269	6.7	52
125	N/S-Me (Fe, Co, Ni) doped hierarchical porous carbons for fuel cell oxygen reduction reaction with high catalytic activity and long-term stability. <i>Applied Energy</i> , 2016 , 175, 468-478	10.7	52
124	Using pyridine as nitrogen-rich precursor to synthesize Co-N-S/C non-noble metal electrocatalysts for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2012 , 125, 197-205	21.8	49
123	Hierarchical porous N-doped graphene foams with superior oxygen reduction reactivity for polymer electrolyte membrane fuel cells. <i>Applied Energy</i> , 2016 , 175, 459-467	10.7	49
122	High durable poly(vinyl alcohol)/Quaterized hydroxyethylcellulose ethoxylate anion exchange membranes for direct methanol alkaline fuel cells. <i>Journal of Power Sources</i> , 2013 , 227, 291-299	8.9	48
121	Controllable Hortensia-like MnO ₂ Synergized with Carbon Nanotubes as an Efficient Electrocatalyst for Long-Term Metal-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 578-587	9.5	48
120	Aqueous CO ₂ reduction on morphology controlled Cu _x O nanocatalysts at low overpotential. <i>RSC Advances</i> , 2014 , 4, 44583-44591	3.7	47
119	Self-assembly formation of Bi-functional Co ₃ O ₄ /MnO ₂ -CNTs hybrid catalysts for achieving both high energy/power density and cyclic ability of rechargeable zinc-air battery. <i>Scientific Reports</i> , 2016 , 6, 33590	4.9	46
118	CoFe ₂ O ₄ nanoparticles decorated carbon nanotubes: Air-cathode bifunctional catalysts for rechargeable zinc-air batteries. <i>Catalysis Today</i> , 2018 , 318, 144-149	5.3	45
117	Highly-active copper oxide/copper electrocatalysts induced from hierarchical copper oxide nanospheres for carbon dioxide reduction reaction. <i>Electrochimica Acta</i> , 2015 , 153, 559-565	6.7	44
116	Polybenzimidazoles with pendant quaternary ammonium groups as potential anion exchange membranes for fuel cells. <i>Journal of Membrane Science</i> , 2012 , 390-391, 152-159	9.6	44

115	Free-radical-initiated strategy aiming for pitch-based dual-doped carbon nanosheets engaged into high-energy asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2020 , 26, 119-128	19.4	43
114	High-performing rechargeable/flexible zinc-air batteries by coordinated hierarchical Bi-metallic electrocatalyst and heterostructure anion exchange membrane. <i>Nano Energy</i> , 2019 , 65, 104021	17.1	42
113	High molecular weight PVA-modified PVA/PAMPS proton-conducting membranes with increased stability and their application in DMFCs. <i>Solid State Ionics</i> , 2009 , 180, 1318-1323	3.3	42
112	Self-growing Cu/Sn bimetallic electrocatalysts on nitrogen-doped porous carbon cloth with 3D-hierarchical honeycomb structure for highly active carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118447	21.8	42
111	Template-free synthesis of hierarchical yolk-shell Co and N codoped porous carbon microspheres with enhanced performance for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015 , 288, 128-135	8.9	41
110	A self-supported electrode as a high-performance binder- and carbon-free cathode for rechargeable hybrid zinc batteries. <i>Energy Storage Materials</i> , 2020 , 24, 272-280	19.4	41
109	Heteroatom (B, N and P) doped porous graphene foams for efficient oxygen reduction reaction electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12661-12670	6.7	41
108	3D hollow sphere Co ₃ O ₄ /MnO ₂ -CNTs: Its high-performance bi-functional cathode catalysis and application in rechargeable zinc-air battery. <i>Green Energy and Environment</i> , 2017 , 2, 316-328	5.7	38
107	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118953	21.8	38
106	High-performance binary cross-linked alkaline anion polymer electrolyte membranes for all-solid-state supercapacitors and flexible rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11257-11264	13	35
105	Simultaneous formation of nitrogen and sulfur-doped transition metal catalysts for oxygen reduction reaction through pyrolyzing carbon-supported copper phthalocyanine tetrasulfonic acid tetrasodium salt. <i>Journal of Power Sources</i> , 2014 , 266, 88-98	8.9	35
104	In situ growth of CoP nanoparticles anchored on (N,P) co-doped porous carbon engineered by MOFs as advanced bifunctional oxygen catalyst for rechargeable Zn-air battery. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19043-19049	13	35
103	Rational Surface Tailoring Oxygen Functional Groups on Carbon Spheres for Capacitive Mechanistic Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13214-13224	9.5	34
102	Electrochemical Reduction of CO by SnO Nanosheets Anchored on Multiwalled Carbon Nanotubes with Tunable Functional Groups. <i>ChemSusChem</i> , 2019 , 12, 1443-1450	8.3	34
101	The design of Fe, N-doped hierarchically porous carbons as highly active and durable electrocatalysts for a Zn-air battery. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18665-9	3.6	34
100	Template-free synthesis of three-dimensional nanoporous N-doped graphene for high performance fuel cell oxygen reduction reaction in alkaline media. <i>Applied Energy</i> , 2016 , 175, 405-413	10.7	34
99	Anion conducting poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) membranes with high durable alkaline stability for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2013 , 237, 1-4	8.9	34
98	Kinetics and electrocatalytic activity of nanostructured Ir/C for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2010 , 55, 8490-8497	6.7	34

97	Graphitic-shell encapsulated FeNi alloy/nitride nanocrystals on biomass-derived N-doped carbon as an efficient electrocatalyst for rechargeable Zn-air battery 2021 , 3, 176-187		34
96	Fe/N/S-composited hierarchically porous carbons with optimized surface functionality, composition and nanoarchitecture as electrocatalysts for oxygen reduction reaction. <i>Journal of Catalysis</i> , 2017 , 352, 208-217	7.3	33
95	Novel Alkaline Anion-exchange Membranes Based on Chitosan/Ethenylmethylimidazoliumchloride Polymer with Ethenylpyrrolidone Composites for Low Temperature Polymer Electrolyte Fuel Cells. <i>Electrochimica Acta</i> , 2015 , 177, 137-144	6.7	33
94	Electrochemical Performance of Carbon-Supported Co-Phthalocyanine Modified with Co-Added Metals (M = Fe, Co, Ni, V) for Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F577-F584	3.9	32
93	A novel composite (FMC) to serve as a durable 3D-clam-shaped bifunctional cathode catalyst for both primary and rechargeable zinc-air batteries. <i>Science Bulletin</i> , 2017 , 62, 1216-1226	10.6	31
92	Polyethylene glycol induced reconstructing Bi nanoparticle size for stabilized CO ₂ electroreduction to formate. <i>Journal of Catalysis</i> , 2018 , 365, 63-70	7.3	31
91	Small mesopore engineering of pitch-based porous carbons toward enhanced supercapacitor performance. <i>Chemical Engineering Journal</i> , 2020 , 399, 125818	14.7	30
90	Alkaline Exchange Polymer Membrane Electrolyte for High Performance of All-Solid-State Electrochemical Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29593-29598	9.5	30
89	Harvesting honeycomb-like carbon nanosheets with tunable mesopores from mild-modified coal tar pitch for high-performance flexible all-solid-state supercapacitors. <i>Journal of Power Sources</i> , 2020 , 448, 227446	8.9	30
88	Ultrafine porous carbon fiber and its supported platinum catalyst for enhancing performance of proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2015 , 177, 174-180	6.7	29
87	Uncovering the nature of electroactive sites in nano architected dendritic Bi for highly efficient CO ₂ electroreduction to formate. <i>Applied Catalysis B: Environmental</i> , 2020 , 274, 119031	21.8	29
86	Metal-Organic-Framework-Derived Co Nanoparticles Deposited on N-Doped Bimodal Mesoporous Carbon Nanorods as Efficient Bifunctional Catalysts for Rechargeable Zinc-Air Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1868-1873	4.3	29
85	Electrochemical behavior of nanostructured nickel phthalocyanine (NiPc/C) for oxygen reduction reaction in alkaline media. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 43-51	2.6	29
84	Novel proton-conducting polymer electrolyte membranes based on PVA/PAMPS/PEG400 blend. <i>Journal of Power Sources</i> , 2006 , 156, 311-314	8.9	29
83	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. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2639-2648	6.7	28
82	Self-assembly formation of hollow Ni-Fe-O nanocage architectures by metal-organic frameworks with high-performance lithium storage. <i>Scientific Reports</i> , 2015 , 5, 13310	4.9	28
81	Bismuth Anchored on MWCNTs with Controlled Ultrafine Nanosize Enables High-Efficient Electrochemical Reduction of Carbon Dioxide to Formate Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4871-4876	8.3	27
80	Achieving high-powered Zn/air fuel cell through N and S co-doped hierarchically porous carbons with tunable active-sites as oxygen electrocatalysts. <i>Journal of Power Sources</i> , 2017 , 365, 348-353	8.9	27

79	Proton conducting behavior of a novel polymeric gel membrane based on poly(ethylene oxide)-grafted-poly(methacrylate). <i>Journal of Power Sources</i> , 2002 , 105, 45-51	8.9	27
78	Harvesting the Vibration Energy of BiFeO ₃ Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 11905-11910	3.6	26
77	Synthesis and properties of chemically cross-linked poly(vinyl alcohol)/poly(acrylamide-co-diallyldimethylammonium chloride) (PVAAADDA) for anion-exchange membranes. <i>Solid State Ionics</i> , 2012 , 214, 6-12	3.3	26
76	Superior stability of a bifunctional oxygen electrode for primary, rechargeable and flexible Zn-air batteries. <i>Nanoscale</i> , 2018 , 10, 13626-13637	7.7	25
75	Carbon-supported co-pyridine as non-platinum cathode catalyst for alkaline membrane fuel cells. <i>Electrochimica Acta</i> , 2013 , 96, 298-305	6.7	25
74	Hydroxyl anion conducting membranes poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) for alkaline fuel cell applications: Effect of molecular weight. <i>Electrochimica Acta</i> , 2013 , 111, 351-358	6.7	24
73	A facile one-step preparation of a Pd/Co bimetallic hollow nanosphere electrocatalyst for ethanol oxidation. <i>Catalysis Science and Technology</i> , 2013 , 3, 2843	5.5	23
72	Design and engineering of urchin-like nanostructured SnO ₂ catalysts via controlled facial hydrothermal synthesis for efficient electro-reduction of CO ₂ . <i>Electrochimica Acta</i> , 2017 , 248, 123-132	6.7	23
71	Effect of metal particle size and Nafion content on performance of MEA using Ir-V/C as anode catalyst. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 5528-5538	6.7	23
70	Selective formation of C ₂ products from the electrochemical conversion of CO ₂ on CuO-derived copper electrodes comprised of nanoporous ribbon arrays. <i>Catalysis Today</i> , 2017 , 288, 18-23	5.3	21
69	Metal-Organic-Frameworks-Derived Cu/Cu ₂ O Catalyst with Ultrahigh Current Density for Continuous-Flow CO ₂ Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15739-15746	8.3	21
68	Poly(ethylene glycol) plasticized poly(vinyl alcohol)/poly(acrylamide-co-diallyldimethylammonium chloride) as alkaline anion-exchange membrane for potential fuel cell applications. <i>Synthetic Metals</i> , 2013 , 167, 43-50	3.6	21
67	Proton conductance and spectroscopic characteristics of acid-doped polymer gels based on poly(ethylene oxide)-modified polymethacrylate. <i>Solid State Ionics</i> , 2003 , 156, 415-424	3.3	20
66	Separated growth of Bi-Cu bimetallic electrocatalysts on defective copper foam for highly converting CO ₂ to formate with alkaline anion-exchange membrane beyond KHCO ₃ electrolyte. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 120003	21.8	20
65	Hierarchical Porous Carbon Derived from Coal Tar Pitch Containing Discrete Co/Nx Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8587-8596	8.3	19
64	Imidazolium-Functionalized Anion Exchange Polymer Electrolytes with High Tensile Strength and Stability for Alkaline Membrane Fuel Cells. <i>Electrochimica Acta</i> , 2015 , 177, 201-208	6.7	19
63	Carbon-supported Ir/V nanoparticle as novel platinum-free anodic catalysts in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 5144-5151	6.7	19
62	Lattice reconstruction of La-incorporated CsPbI ₂ Br with suppressed phase transition for air-processed all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3351-3358	7.1	19

61	Synthesis of a highly active carbon-supported Ir ₃ /C catalyst for the hydrogen oxidation reaction in PEMFC. <i>Electrochimica Acta</i> , 2009 , 54, 5614-5620	6.7	18
60	Exploiting a High-Performance "Double-Carbon" Structure CoS/GN Bifunctional Catalysts for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38202-38210	9.5	18
59	Continuous electroreduction of carbon dioxide to formate on Tin nanoelectrode using alkaline membrane cell configuration in aqueous medium. <i>Catalysis Today</i> , 2018 , 318, 32-38	5.3	17
58	A Proton Conductor Based on a Polymeric Complex of Poly(Ethylene Oxide)-Modified Poly(Methacrylate) with Anhydrous H ₃ PO ₄ . <i>Chemistry of Materials</i> , 2003 , 15, 2005-2010	9.6	17
57	Novel composite Nafion membranes modified with copper phthalocyanine tetrasulfonic acid tetrasodium salt for fuel cell application. <i>Journal of Materiomics</i> , 2019 , 5, 252-257	6.7	16
56	Dual-active-sites design of CoS _x anchored on nitrogen-doped carbon with tunable mesopore enables efficient Bi-Functional oxygen catalysis for ultra-stable zinc-air batteries. <i>Journal of Power Sources</i> , 2019 , 438, 226953	8.9	16
55	Highly Durable, Proton-Conducting Semi-interpenetrating Polymer Networks from PVA/PAMPS Composites by Incorporating Plasticizer Variants. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A379		16
54	Metal-Nitrogen-Carbon Catalysts of Specifically Coordinated Configurations toward Typical Electrochemical Redox Reactions. <i>Advanced Materials</i> , 2021 , 33, e2100997	24	15
53	Rational fabrication of thin-layered NiCo ₂ S ₄ loaded graphene as bifunctional non-oxide catalyst for rechargeable zinc-air batteries. <i>Electrochimica Acta</i> , 2020 , 342, 136108	6.7	14
52	Highly Stabilized Zinc-Air Batteries Based on Nanostructured Co ₃ O ₄ Composites as Efficient Bifunctional Electrocatalyst. <i>ChemElectroChem</i> , 2018 , 5, 1976-1984	4.3	14
51	High PEMFC performance by applying Ir-V nanoparticles as a cathode catalyst. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 198-203	21.8	14
50	Carbon-based metal-free catalysts for electrochemical CO ₂ reduction: Activity, selectivity, and stability 2021 , 3, 24-49		14
49	Investigation of polyacrylamide based hydroxide ion-conducting electrolyte and its application in all-solid electrochemical capacitors. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1580-1587	5.8	13
48	Morphology-controlled construction of hierarchical hollow hybrid SnO ₂ @TiO ₂ nanocapsules with outstanding lithium storage. <i>Scientific Reports</i> , 2015 , 5, 15252	4.9	13
47	Bimetallic Sulfide with Controllable Mg Substitution Anchored on CNTs as Hierarchical Bifunctional Catalyst toward Oxygen Catalytic Reactions for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37164-37172	9.5	13
46	Nitrogen and sulfur co-doped mesoporous carbon as cathode catalyst for H ₂ /O ₂ alkaline membrane fuel cell Effect of catalyst/bonding layer loading. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9159-9166	6.7	13
45	Unravelling the origin of bifunctional OER/ORR activity for single-atom catalysts supported on C ₂ N by DFT and machine learning. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16860-16867	13	13
44	Poly(vinyl alcohol)/Poly(diallyldimethylammonium chloride) anion-exchange membrane modified with multiwalled carbon nanotubes for alkaline fuel cells. <i>Journal of Materiomics</i> , 2019 , 5, 286-295	6.7	12

43	In-situ growth of CuO/Cu nanocomposite electrode for efficient CO ₂ electroreduction to CO with bacterial cellulose as support. <i>Journal of CO₂ Utilization</i> , 2020 , 37, 188-194	7.6	12
42	Highly Efficient Porous Carbon Electrocatalyst with Controllable N-Species Content for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 3270-3277	3.6	12
41	Aqueous-phase electrochemical reduction of CO ₂ based on SnO ₂ CuO nanocomposites with improved catalytic activity and selectivity. <i>Catalysis Today</i> , 2018 , 318, 2-9	5.3	11
40	Carbon-Supported IrM (M=V, Mn, Fe, Co, and Ni) Binary Alloys as Anode Catalysts for Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B436	3.9	11
39	Atomically Dispersed Transition Metal-Nitrogen-Carbon Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries: Recent Advances and Future Perspectives.. <i>Nano-Micro Letters</i> , 2021 , 14, 36	19.5	11
38	Hierarchical bifunctional catalysts with tailored catalytic activity for high-energy rechargeable Zn-air batteries. <i>Applied Energy</i> , 2020 , 279, 115876	10.7	11
37	Evaluation of carbon-supported copper phthalocyanine (CuPc/C) as a cathode catalyst for fuel cells using Nafion as an electrolyte. <i>Ionics</i> , 2013 , 19, 1415-1422	2.7	10
36	Electro-conversion of methane to alcohols on capsule-like binary metal oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119572	21.8	10
35	Promoter Effects of Functional Groups of Hydroxide-Conductive Membranes on Advanced CO Electroreduction to Formate. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6881-6889	9.5	9
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