

Shijun Liao

List of Publications by Year in descending order

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281
papers

13,958
citations

22099

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281
docs citations

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times ranked

15669
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced low-humidity performance of proton-exchange membrane fuel cell by introducing hydrophilic CNTs in membrane electrode assembly. Progress in Natural Science: Materials International, 2022, 32, 150-156.	1.8	5
2	Methods for Remit Voltage Reversal of Proton Exchange Membrane Fuel Cells. Frontiers in Energy Research, 2022, 10, .	1.2	1
3	Optimizing the Electronic Structure of Ordered Pt-Co-Ti Ternary Intermetallic Catalyst to Boost Acidic Oxygen Reduction. ACS Catalysis, 2022, 12, 7571-7578.	5.5	31
4	Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. Applied Energy, 2021, 283, 116376.	5.1	50
5	Accurate predictions of chaotic motion of a free fall disk. Physics of Fluids, 2021, 33, .	1.6	9
6	Steady-state harmonic resonance of periodic interfacial waves with free-surface boundary conditions based on the homotopy analysis method. Journal of Fluid Mechanics, 2021, 916, .	1.4	10
7	Hexyl-modified series-connected bipyridine and DABCO di-cations functionalized anion exchange membranes for electrodialysis desalination. Separation and Purification Technology, 2021, 265, 118526.	3.9	18
8	Metallic cobalt encapsulated in N-doped carbon nanowires: a highly active bifunctional catalyst for oxygen reduction and evolution. Ionics, 2021, 27, 3501-3509.	1.2	2
9	Heterostructured Pd/Ti/Pd Thin Films as Highly Efficient Catalysts for Methanol and Formic Acid Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 31725-31732.	4.0	9
10	Advanced Atomically Dispersed Metal-Nitrogen-Carbon Catalysts Toward Cathodic Oxygen Reduction in PEM Fuel Cells. Advanced Energy Materials, 2021, 11, 2101222.	10.2	109
11	Nodal PtNi nanowires with Pt skin and controllable Near-Surface composition for enhanced oxygen reduction electrocatalysis in fuel cells. Chemical Engineering Journal, 2021, 418, 129322.	6.6	36
12	Nitrogen and atomic Fe dual-doped porous carbon nanocubes as superior electrocatalysts for acidic H ₂ -O ₂ PEMFC and alkaline Zn-air battery. Journal of Energy Chemistry, 2021, 59, 388-395.	7.1	27
13	Biogelatin-Derived and N,S-Codoped 3D Network Carbon Materials Anchored with RuO ₂ as an Efficient Cathode for Rechargeable Li-O ₂ Batteries. Journal of Physical Chemistry C, 2021, 125, 21914-21921.	1.5	7
14	Influence of hydrophobic components tuning of poly (aryl ether sulfone)s ionomers based anion exchange membranes on diffusion dialysis for acid recovery. Journal of Membrane Science, 2021, 636, 119562.	4.1	23
15	Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithium-oxygen batteries. Journal of Materials Chemistry A, 2021, 9, 10747-10757.	5.2	31
16	UIO-66-NH ₂ -derived mesoporous carbon used as a high-performance anode for the potassium-ion battery. RSC Advances, 2021, 11, 1039-1049.	1.7	10
17	Highly conductive and permselective anion exchange membranes for electrodialysis desalination with series-connected dications appending flexible hydrophobic tails. Desalination, 2020, 474, 114184.	4.0	29
18	Efficient hydrogen peroxide synthesis by metal-free polyterthiophene photoelectrocatalytic dioxygen reduction. Energy and Environmental Science, 2020, 13, 238-245.	15.6	146

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19	Design of ultralong-life Li ⁺ /CO ₂ batteries with IrO ₂ nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3763-3770.	5.2	58
20	A mesoporous carbon derived from 4,4'-dipyridyl iron as an efficient catalyst for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2439-2444.	5.2	12
21	Methanol-tolerant Se ⁺ Pt/C: effects of Se content on the structure and electrocatalytic performance for oxygen reduction reaction. <i>Ionics</i> , 2020, 26, 1315-1323.	1.2	9
22	A comparative study on the catalytic activities and stabilities of atomic-layered platinum on dispersed Ti _{0.9} Cu _{0.1} N nanoparticles supported by N-doped carbon nanotubes (N-CNTs) and reduced graphene oxide (N-rGO). <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1857-1866.	3.8	2
23	Enhanced low-humidity performance in a proton exchange membrane fuel cell by developing a novel hydrophilic gas diffusion layer. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 937-944.	3.8	34
24	Mono-disperse PdO nanoparticles prepared via microwave-assisted thermo-hydrolyzation with unexpectedly high activity for formic acid oxidation. <i>Electrochimica Acta</i> , 2020, 329, 135166.	2.6	11
25	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 513-533.	9.5	36
26	Applications of M/N/C analogue catalysts in PEM fuel cells and metal-air/oxygen batteries: Status quo, challenges and perspectives. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 807-814.	1.8	15
27	Steady-state multiple near resonances of periodic interfacial waves with rigid boundary. <i>Physics of Fluids</i> , 2020, 32, .	1.6	12
28	Recent advances in nanostructured transition metal nitrides for fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20803-20818.	5.2	45
29	Robust InNCo ₃ Mn Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 5293-5300.	2.5	13
30	Two-Dimensional Bimetallic Zn/Fe-Metal-Organic Framework (MOF)-Derived Porous Carbon Nanosheets with a High Density of Single/Paired Fe Atoms as High-Performance Oxygen Reduction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13878-13887.	4.0	100
31	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15822-15828.	5.2	58
32	Rationally Designed Three-Dimensional N-Doped Graphene Architecture Mounted with Ru Nanoclusters as a High-Performance Air Cathode for Lithium-Oxygen Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6109-6117.	3.2	28
33	Coupling hollow Fe ₃ O ₄ nanoparticles with oxygen vacancy on mesoporous carbon as a high-efficiency ORR electrocatalyst for Zn-air battery. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 410-418.	5.0	75
34	Hierarchically open-porous carbon networks enriched with exclusive Fe-Nx active sites as efficient oxygen reduction catalysts towards acidic H ₂ -O ₂ PEM fuel cell and alkaline Zn-air battery. <i>Chemical Engineering Journal</i> , 2020, 390, 124479.	6.6	61
35	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11737-11744.	4.0	37
36	In-situ formation of N doped hollow graphene Nanospheres/CNTs architecture with encapsulated Fe ₃ C@C nanoparticles as efficient bifunctional oxygen electrocatalysts. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154238.	2.8	16

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37	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , 2020, 12, 21.	14.4	159
38	Highly permselective tadpole-type ionic anion exchange membranes for electrodialysis desalination. <i>Journal of Membrane Science</i> , 2020, 600, 117861.	4.1	19
39	MOF-Templated sword-like Co ₃ O ₄ @NiCo ₂ O ₄ sheet arrays on carbon cloth as highly efficient Li-O ₂ battery cathode. <i>Journal of Power Sources</i> , 2020, 450, 227725.	4.0	62
40	In-situ grown vanadium nitride coated with thin layer of nitrogen-doped carbon as a highly durable binder-free cathode for Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2020, 460, 228109.	4.0	6
41	A strategy to unlock the potential of CrN as a highly active oxygen reduction reaction catalyst. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8575-8585.	5.2	38
42	Effects of Co doping sites on the electrochemical performance of LiNi _{0.5} Mn _{1.5} O ₄ as a cathode material. <i>Ionics</i> , 2020, 26, 3777-3783.	1.2	9
43	Yucca-like CoO-CoN Nanoarray with Abundant Oxygen Vacancies as a High-Performance Cathode for Lithium-Oxygen Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 12000-12008.	2.5	8
44	Enhanced performance of LiNi _{0.03} Mo _{0.01} Mn _{1.96} O ₄ cathode materials coated with biomass-derived carbon layer. <i>Ionics</i> , 2019, 25, 917-925.	1.2	2
45	Improving Potassium-Ion Batteries by Optimizing the Composition of Prussian Blue Cathode. <i>ACS Applied Energy Materials</i> , 2019, 2, 6528-6535.	2.5	65
46	Enhancing membrane electrode assembly performance by improving the porous structure and hydrophobicity of the cathode catalyst layer. <i>Journal of Power Sources</i> , 2019, 443, 227284.	4.0	29
47	Rechargeable Zinc-Air Battery with Ultrahigh Power Density Based on Uniform N, Co Codoped Carbon Nanospheres. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44153-44160.	4.0	20
48	Antiperovskite Nitrides Cu ₃ NCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. <i>Nano Letters</i> , 2019, 19, 7457-7463.	4.5	62
49	Prussian Blue [K ₂ FeFe(CN) ₆] Doped with Nickel as a Superior Cathode: An Efficient Strategy To Enhance Potassium Storage Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16659-16667.	3.2	52
50	g-C ₃ N ₄ promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5020-5030.	5.2	152
51	Glucose-derived carbon supported well-dispersed CrN as competitive oxygen reduction catalysts in acidic medium. <i>Electrochimica Acta</i> , 2019, 314, 202-211.	2.6	12
52	Dendrite-Free Composite Li Anode Assisted by Ag Nanoparticles in a Wood-Derived Carbon Frame. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18361-18367.	4.0	33
53	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1900015.	7.8	68
54	Uniform Nitrogen and Sulfur Co-doped Carbon Bowls for the Electrocatalyzation of Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7148-7154.	3.2	13

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55	Atomic Fe-Doped MOF-Derived Carbon Polyhedrons with High Active-Center Density and Ultra-High Performance toward PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802856.	10.2	196
56	Highly effective and stable doped carbon catalyst with three-dimensional porous structure and well-covered Fe ₃ C nanoparticles prepared with C ₃ N ₄ and tannic acid as template/precursors. <i>Journal of Power Sources</i> , 2019, 417, 117-124.	4.0	19
57	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie</i> , 2019, 131, 2648-2652.	1.6	116
58	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2622-2626.	7.2	494
59	UIO-66-NH ₂ -Derived Mesoporous Carbon Catalyst Co-Doped with Fe/N/S as Highly Efficient Cathode Catalyst for PEMFCs. <i>Small</i> , 2019, 15, e1803520.	5.2	73
60	Spinel LiMn ₂ O ₄ Nanoparticles Grown in Situ on Nitrogen-Doped Reduced Graphene Oxide as an Efficient Cathode for a Li-O ₂ /Li-Ion Twin Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 430-439.	3.2	11
61	Effects of preparation conditions on the morphology and performance of palladium nanostructures. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1525-1533.	3.8	1
62	MOF-Derived Carbon Materials Mounted with Highly Dispersed Ru and MoO ₃ for Rechargeable Li-O ₂ Cathode Yield Enhanced Cyclability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2296-2303.	3.2	9
63	High-Performance 3D Pinecone-Like LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800769.	1.8	8
64	Pt/graphene with intercalated carbon nanotube spacers introduced by electrostatic self-assembly for fuel cells. <i>Materials Chemistry and Physics</i> , 2019, 225, 371-378.	2.0	23
65	Series-connected hexacations cross-linked anion exchange membranes for diffusion dialysis in acid recovery. <i>Journal of Membrane Science</i> , 2019, 570-571, 120-129.	4.1	50
66	Biomass-derived 3D hierarchical N-doped porous carbon anchoring cobalt-iron phosphide nanodots as bifunctional electrocatalysts for Li O ₂ batteries. <i>Journal of Power Sources</i> , 2019, 412, 433-441.	4.0	23
67	Influence of the ions distribution of anion-exchange membranes on electro dialysis. <i>Desalination</i> , 2018, 437, 34-44.	4.0	22
68	Faraday waves in a Hele-Shaw cell. <i>Physics of Fluids</i> , 2018, 30, .	1.6	13
69	High porosity nitrogen and phosphorous Co-doped carbon nanosheets as an efficient catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9749-9756.	3.8	12
70	Observation of two coupled Faraday waves in a vertically vibrating Hele-Shaw cell with one of them oscillating horizontally. <i>Physics of Fluids</i> , 2018, 30, 012108.	1.6	22
71	Synthesis and Properties of Symmetric Side-Chain Quaternized Poly(Arylene Ether Sulfone)s for Anion Exchange Membrane Fuel Cells. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700416.	1.1	4
72	Enhanced cyclability of Li-O ₂ batteries with cathodes of Ir and MnO ₂ supported on well-defined TiN arrays. <i>Nanoscale</i> , 2018, 10, 2983-2989.	2.8	44

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73	Highly Selective TiN-Supported Highly Dispersed Pt Catalyst: Ultra Active toward Hydrogen Oxidation and Inactive toward Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3530-3537.	4.0	48
74	Tuning hydrophobic-hydrophilic balance of cathode catalyst layer to improve cell performance of proton exchange membrane fuel cell (PEMFC) by mixing polytetrafluoroethylene (PTFE). <i>Electrochimica Acta</i> , 2018, 277, 110-115.	2.6	47
75	On the limiting Stokes wave of extreme height in arbitrary water depth. <i>Journal of Fluid Mechanics</i> , 2018, 843, 653-679.	1.4	28
76	DFT study of high performance Pt ₃ Sn alloy catalyst in oxygen reduction reaction. <i>Computational Materials Science</i> , 2018, 149, 107-114.	1.4	26
77	High oxygen reduction activity of TM ₁₃ @Pt ₁₃₄ and TM _{12N} @Pt ₁₃₄ (TM=Ti, V, Mn, Fe, Co, Ni, and Cu) core-shell electrocatalysts studied by first-principles theory. <i>Materials Chemistry and Physics</i> , 2018, 212, 378-384.	2.0	8
78	Template-Free Preparation of 3D Porous Co-Doped VN Nanosheet-Assembled Microflowers with Enhanced Oxygen Reduction Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11604-11612.	4.0	47
79	Nitrogen, Sulfur Co-doped Carbon Derived from Naphthalene-Based Covalent Organic Framework as an Efficient Catalyst for Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2018, 1, 161-166.	2.5	36
80	A bi-functional WO ₃ -based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. <i>Energy Storage Materials</i> , 2018, 12, 79-84.	9.5	18
81	Enhancement of Oxygen Reduction Performance of Biomass-Derived Carbon through Co-Doping with Early Transition Metal. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3148-J3156.	1.3	11
82	Three-Dimensional Biocarbon Framework Coupled with Uniformly Distributed FeSe Nanoparticles Derived from Pollen as Bifunctional Electrocatalysts for Oxygen Electrode Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32133-32141.	4.0	29
83	Organic-phase synthesis of Li ₃ V ₂ (PO ₄) ₃ @Carbon nanocrystals and their lithium storage properties. <i>RSC Advances</i> , 2018, 8, 19335-19340.	1.7	6
84	A renewable wood-derived cathode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14291-14298.	5.2	38
85	Core-Shell-Structured Low-Platinum Electrocatalysts for Fuel Cell Applications. <i>Electrochemical Energy Reviews</i> , 2018, 1, 324-387.	13.1	72
86	Cobalt and Nitrogen Co-Doped Graphene-Carbon Nanotube Aerogel as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions. <i>Catalysts</i> , 2018, 8, 275.	1.6	24
87	Enhanced durability and self-humidification of platinum catalyst through decoration with SnSi binary oxide. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 1163-1173.	1.5	5
88	Influence of Oxygen Contents on the Microstructure, High Temperature Oxidation and Corrosion Resistance Properties of Cr-Si-O-N Coatings. <i>Coatings</i> , 2018, 8, 19.	1.2	3
89	Formation of a Tubular Assembly by Ultrathin Ti _{0.8} Co _{0.2} N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogen-Air Fuel Cells. <i>ACS Catalysis</i> , 2018, 8, 8970-8975.	5.5	147
90	In-situ IR monitoring to probe the formation of structural defects in Zr-fumarate metal-organic framework (MOF). <i>Polyhedron</i> , 2018, 153, 205-212.	1.0	11

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91	Nanoconfined Nitrogen-Doped Carbon-Coated Hierarchical TiCoN Composites with Enhanced ORR Performance. <i>ChemElectroChem</i> , 2018, 5, 2041-2049.	1.7	19
92	Design of a Multispherical Cavity Carbon with In Situ Silica Modifications and Its Self-Humidification Application on Fuel Cell Anode Support. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800314.	1.9	6
93	A high-performance composite ORR catalyst based on the synergy between binary transition metal nitride and nitrogen-doped reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5829-5837.	5.2	93
94	Well-Defined ZIF-Derived Fe-N Codoped Carbon Nanoframes as Efficient Oxygen Reduction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9699-9709.	4.0	196
95	In situ growth of cobalt sulfide hollow nanospheres embedded in nitrogen and sulfur co-doped graphene nanoholes as a highly active electrocatalyst for oxygen reduction and evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12354-12360.	5.2	93
96	Binary Fe, Cu-doped bamboo-like carbon nanotubes as efficient catalyst for the oxygen reduction reaction. <i>Nano Energy</i> , 2017, 37, 187-194.	8.2	125
97	In situ construction of Ir@Pt/C nanoparticles in the cathode layer of membrane electrode assemblies with ultra-low Pt loading and high Pt exposure. <i>Journal of Power Sources</i> , 2017, 355, 83-89.	4.0	45
98	High-Performance Core-Shell Catalyst with Nitride Nanoparticles as a Core: Well-Defined Titanium Copper Nitride Coated with an Atomic Pt Layer for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2017, 7, 3810-3817.	5.5	84
99	A Co-doped porous niobium nitride nanogrid as an effective oxygen reduction catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14278-14285.	5.2	51
100	Synthesis of Core-shell Structured Ru@Pd/C Catalysts for the Electrooxidation of Formic Acid. <i>Electrochimica Acta</i> , 2017, 238, 194-201.	2.6	27
101	Current research trends and perspectives on materials-based hydrogen storage solutions: A critical review. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 289-311.	3.8	440
102	Uniform nitrogen and sulphur co-doped hollow carbon nanospheres as efficient metal-free electrocatalysts for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1742-1748.	5.2	51
103	Uniformly dispersed carbon-supported bimetallic ruthenium-platinum electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Science</i> , 2017, 52, 3457-3466.	1.7	16
104	Review on the current practices and efforts towards pilot-scale production of metal-organic frameworks (MOFs). <i>Coordination Chemistry Reviews</i> , 2017, 352, 187-219.	9.5	190
105	Formic acid as additive for the preparation of high-performance FePO ₄ materials by spray drying method. <i>Ceramics International</i> , 2017, 43, 16652-16658.	2.3	14
106	Platinum-decorated palladium-nanoflowers as high efficient low platinum catalyst towards oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22909-22914.	3.8	12
107	From <i>Chlorella</i> to Nestlike Framework Constructed with Doped Carbon Nanotubes: A Biomass-Derived, High-Performance, Bifunctional Oxygen Reduction/Evolution Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32168-32178.	4.0	63
108	Structural defects in metal-organic frameworks (MOFs): Formation, detection and control towards practices of interests. <i>Coordination Chemistry Reviews</i> , 2017, 349, 169-197.	9.5	200

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109	Enhanced performance of proton exchange membrane fuel cell by introducing nitrogen-doped CNTs in both catalyst layer and gas diffusion layer. <i>Electrochimica Acta</i> , 2017, 253, 142-150.	2.6	26
110	IrO ₂ nanoparticles highly dispersed on nitrogen-doped carbon nanotubes as an efficient cathode catalyst for high-performance Li-O ₂ batteries. <i>Ceramics International</i> , 2017, 43, 14082-14089.	2.3	46
111	Atomic platinum layer coated titanium copper nitride supported on carbon nanotubes for the methanol oxidation reaction. <i>Electrochimica Acta</i> , 2017, 248, 349-355.	2.6	19
112	Methanol tolerant core-shell RuFeSe@Pt/C catalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20658-20668.	3.8	24
113	Influence of 2,2',6,6'-tetramethyl biphenol-based anion-exchange membranes on the diffusion dialysis of hydrochloride acid. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45333.	1.3	19
114	Enhancing the cyclability of Li-O ₂ batteries using PdM alloy nanoparticles anchored on nitrogen-doped reduced graphene as the cathode catalyst. <i>Journal of Power Sources</i> , 2017, 337, 173-179.	4.0	43
115	Design and Fabrication of a Dual-Photoelectrode Fuel Cell towards Cost-Effective Electricity Production from Biomass. <i>ChemSusChem</i> , 2017, 10, 99-105.	3.6	51
116	Platinum Nanoparticles on Interconnected Ni ₃ P/Carbon Nanotube@Carbon Nanofiber Hybrid Supports with Enhanced Catalytic Activity for Fuel Cells. <i>ChemElectroChem</i> , 2017, 4, 109-114.	1.7	7
117	Biomass-derived porous heteroatom-doped carbon spheres as a high-performance catalyst for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14101-14110.	3.8	54
118	Enhanced Li-O ₂ battery performance, using graphene-like nori-derived carbon as the cathode and adding Lil in the electrolyte as a promoter. <i>Electrochimica Acta</i> , 2016, 200, 231-238.	2.6	55
119	Multi-block copolymers with fluorene-containing hydrophilic segments densely functionalized by side-chain quaternary ammonium groups as anion exchange membranes. <i>RSC Advances</i> , 2016, 6, 41453-41464.	1.7	13
120	A hollow spherical doped carbon catalyst derived from zeolitic imidazolate framework nanocrystals impregnated/covered with iron phthalocyanines. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7859-7868.	5.2	37
121	Highly stable and efficient platinum nanoparticles supported on TiO ₂ @Ru-C: investigations on the promoting effects of the interpenetrated TiO ₂ . <i>Electrochimica Acta</i> , 2016, 216, 8-15.	2.6	7
122	High porosity and surface area self-doped carbon derived from polyacrylonitrile as efficient electrocatalyst towards oxygen reduction. <i>Journal of Power Sources</i> , 2016, 324, 134-141.	4.0	31
123	Limitations and Improvement Strategies for Early-Transition-Metal Nitrides as Competitive Catalysts toward the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2016, 6, 6165-6174.	5.5	130
124	Effect of confinement of TiO ₂ nanotubes over the Ru nanoparticles on Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2016, 526, 45-52.	2.2	31
125	Cobalt and Nitrogen Codoped Graphene with Inserted Carbon Nanospheres as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4131-4136.	3.2	101
126	Photoassisted Oxygen Reduction Reaction in H ₂ @O ₂ Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14748-14751.	7.2	81

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127	Construction of a high-performance air-breathing cathode using platinum catalyst supported by carbon black and carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9191-9196.	3.8	8
128	Lithium-rich layered nickel–manganese oxides as high-performance cathode materials: the effects of composition and PEG on performance. <i>Ionics</i> , 2016, 22, 2067-2073.	1.2	0
129	High-performance membrane electrode assembly with multi-functional Pt/SnO ₂ –SiO ₂ /C catalyst for proton exchange membrane fuel cell operated under low-humidity conditions. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9197-9203.	3.8	20
130	Transition Metal Nitride Coated with Atomic Layers of Pt as a Low-Cost, Highly Stable Electrocatalyst for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 1575-1583.	6.6	348
131	A core–shell Pd ₁ Ru ₁ Ni ₂ @Pt/C catalyst with a ternary alloy core and Pt monolayer: enhanced activity and stability towards the oxygen reduction reaction by the addition of Ni. <i>Journal of Materials Chemistry A</i> , 2016, 4, 847-855.	5.2	40
132	Effects of tailoring and dehydrated cross-linking on morphology evolution of ordered mesoporous carbons. <i>RSC Advances</i> , 2016, 6, 19515-19521.	1.7	9
133	Doped reduced graphene oxide mounted with IrO ₂ nanoparticles shows significantly enhanced performance as a cathode catalyst for Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2016, 192, 431-438.	2.6	20
134	Nitrogen self-doped carbon nanoparticles derived from spiral seaweeds for oxygen reduction reaction. <i>RSC Advances</i> , 2016, 6, 27535-27541.	1.7	21
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275	MNi _{4.8} Sn _{0.2} (M=La, Nd)-supported multi-walled carbon nanotube composites as hydrogen storage materials. <i>Science Bulletin</i> , 2007, 52, 1616-1622.	1.7	2
276	High Performance PtRu Catalysts Supported on Carbon Nanotubes for the Anodic Oxidation of Methanol. <i>Journal of the American Chemical Society</i> , 2006, 128, 3504-3505.	6.6	280
277	Hydrogen storage of multiwalled carbon nanotubes coated with Pd-Ni nanoparticles under moderate conditions. <i>Science Bulletin</i> , 2006, 51, 2959-2963.	1.7	17
278	Anodic oxidation of ethanol on inorganic membrane-based electrodes. <i>Applied Catalysis A: General</i> , 2004, 258, 183-188.	2.2	6
279	Preparation and characterization of ZnO/TiO ₂ , SO ₄ ²⁻ /ZnO/TiO ₂ photocatalyst and their photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 168, 7-13.	2.0	167
280	Electrooxidation of methanol over a membrane-based electrode and effect of tungsten and molybdenum on the activity. <i>Applied Catalysis A: General</i> , 2002, 235, 149-155.	2.2	7
281	Alkylation of isobutane with butenes over solid acid catalysts. <i>Applied Catalysis A: General</i> , 1994, 107, 239-248.	2.2	24