

# Shijun Liao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

276  
papers

10,589  
citations

50  
h-index

89  
g-index

281  
ext. papers

12,271  
ext. citations

8  
avg. IF

6.56  
L-index

#	Paper	IF	Citations
276	Accurate predictions of chaotic motion of a free fall disk. <i>Physics of Fluids</i> , <b>2021</b> , 33, 037111	4.4	2
275	Steady-state harmonic resonance of periodic interfacial waves with free-surface boundary conditions based on the homotopy analysis method. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 916,	3.7	3
274	Hexyl-modified series-connected bipyridine and DABCO di-cations functionalized anion exchange membranes for electrodialysis desalination. <i>Separation and Purification Technology</i> , <b>2021</b> , 265, 118526	8.3	6
273	Metallic cobalt encapsulated in N-doped carbon nanowires: a highly active bifunctional catalyst for oxygen reduction and evolution. <i>Ionics</i> , <b>2021</b> , 27, 3501-3509	2.7	0
272	Heterostructured Pd/Ti/Pd Thin Films as Highly Efficient Catalysts for Methanol and Formic Acid Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31725-31732	9.5	1
271	Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. <i>Applied Energy</i> , <b>2021</b> , 283, 116376	10.7	14
270	Advanced Atomically Dispersed Metal-Nitrogen-Carbon Catalysts Toward Cathodic Oxygen Reduction in PEM Fuel Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101222	21.8	33
269	Nodal PtNi nanowires with Pt skin and controllable Near-Surface composition for enhanced oxygen reduction electrocatalysis in fuel cells. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129322	14.7	15
268	Nitrogen and atomic Fe dual-doped porous carbon nanocubes as superior electrocatalysts for acidic H <sub>2</sub> -O <sub>2</sub> PEMFC and alkaline Zn-air battery. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 59, 388-395	12	10
267	Influence of hydrophobic components tuning of poly (aryl ether sulfone)s ionomers based anion exchange membranes on diffusion dialysis for acid recovery. <i>Journal of Membrane Science</i> , <b>2021</b> , 636, 119562	9.6	2
266	Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10747-10757	7.3	73
265	Robust In <sub>2</sub> Co <sub>3</sub> N <sub>4</sub> Mn <sub>x</sub> Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5293-5300	6.1	8
264	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 &amp; Interfaces</i> , <b>2020</b> , 12, 13878-13887	9.5	50
263	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15822-15828	13	28
262	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> , <b>2020</b> , 8, 6109-6117	8.3	13
261	Coupling hollow FeO 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> , <b>2020</b> , 567, 410-418	9.3	34
260	Hierarchically open-porous carbon networks enriched with exclusive Fe <sub>2</sub> N <sub>x</sub> active sites as efficient oxygen reduction catalysts towards acidic H <sub>2</sub> O <sub>2</sub> PEM fuel cell and alkaline Zn-air battery. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124479	14.7	38

259	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11737-11744	9.5	24
258	In-situ formation of N doped hollow graphene Nanospheres/CNTs architecture with encapsulated Fe <sub>3</sub> C@C nanoparticles as efficient bifunctional oxygen electrocatalysts. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 828, 154238	5.7	7
257	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 21	19.5	83
256	Highly permselective tadpole-type ionic anion exchange membranes for electrodialysis desalination. <i>Journal of Membrane Science</i> , <b>2020</b> , 600, 117861	9.6	9
255	MOF-Templated sword-like Co <sub>3</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> sheet arrays on carbon cloth as highly efficient LiO <sub>2</sub> battery cathode. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227725	8.9	40
254	In-situ grown vanadium nitride coated with thin layer of nitrogen-doped carbon as a highly durable binder-free cathode for LiO <sub>2</sub> batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 460, 228109	8.9	3
253	A strategy to unlock the potential of CrN as a highly active oxygen reduction reaction catalyst. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8575-8585	13	16
252	Yucca-like CoO <sub>x</sub> /N Nanoarray with Abundant Oxygen Vacancies as a High-Performance Cathode for LithiumOxygen Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12000-12008	6.1	1
251	Effects of Co doping sites on the electrochemical performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> as a cathode material. <i>Ionics</i> , <b>2020</b> , 26, 3777-3783	2.7	5
250	Highly conductive and permselective anion exchange membranes for electrodialysis desalination with series-connected dications appending flexible hydrophobic tails. <i>Desalination</i> , <b>2020</b> , 474, 114184	10.3	12
249	Efficient hydrogen peroxide synthesis by metal-free polyterthiophene via photoelectrocatalytic dioxygen reduction. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 238-245	35.4	71
248	Design of ultralong-life LiO <sub>2</sub> batteries with IrO <sub>2</sub> nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3763-3770	13	31
247	A mesoporous carbon derived from 4,4'-dipyridyl iron as an efficient catalyst for oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2439-2444	13	7
246	Methanol-tolerant Se <sup>+</sup> Pt/C: effects of Se content on the structure and electrocatalytic performance for oxygen reduction reaction. <i>Ionics</i> , <b>2020</b> , 26, 1315-1323	2.7	4
245	A comparative study on the catalytic activities and stabilities of atomic-layered platinum on dispersed Ti <sub>0.9</sub> Cu <sub>0.1</sub> N nanoparticles supported by N-doped carbon nanotubes (N-CNTs) and reduced graphene oxide (N-rGO). <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 1857-1866	6.7	1
244	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> , <b>2020</b> , 45, 937-944	6.7	13
243	Mono-disperse PdO nanoparticles prepared via microwave-assisted thermo-hydrolyzation with unexpectedly high activity for formic acid oxidation. <i>Electrochimica Acta</i> , <b>2020</b> , 329, 135166	6.7	8
242	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 513-533	19.4	20

241	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> , <b>2020</b> , 30, 807-814	3.6	4
240	Steady-state multiple near resonances of periodic interfacial waves with rigid boundary. <i>Physics of Fluids</i> , <b>2020</b> , 32, 087104	4.4	5
239	Recent advances in nanostructured transition metal nitrides for fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20803-20818	13	14
238	UIO-66-NH-derived mesoporous carbon used as a high-performance anode for the potassium-ion battery.. <i>RSC Advances</i> , <b>2020</b> , 11, 1039-1049	3.7	4
237	Antiperovskite Nitrides CuNCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. <i>Nano Letters</i> , <b>2019</b> , 19, 7457-7463	11.5	37
236	Prussian Blue [K <sub>2</sub> FeFe(CN) <sub>6</sub> ] Doped with Nickel as a Superior Cathode: An Efficient Strategy To Enhance Potassium Storage Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16659-16667	8.2	33
235	g-C <sub>3</sub> N <sub>4</sub> 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> , <b>2019</b> , 7, 5020-5030	13	102
234	Glucose-derived carbon supported well-dispersed CrN as competitive oxygen reduction catalysts in acidic medium. <i>Electrochimica Acta</i> , <b>2019</b> , 314, 202-211	6.7	7
233	Dendrite-Free Composite Li Anode Assisted by Ag Nanoparticles in a Wood-Derived Carbon Frame. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18361-18367	9.5	23
232	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900015	15.6	44
231	Uniform Nitrogen and Sulfur Co-doped Carbon Bowls for the Electrocatalyzation of Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7148-7154	8.3	9
230	Enhanced performance of LiNi <sub>0.03</sub> Mo <sub>0.01</sub> Mn <sub>1.96</sub> O <sub>4</sub> cathode materials coated with biomass-derived carbon layer. <i>Ionics</i> , <b>2019</b> , 25, 917-925	2.7	2
229	Improving Potassium-Ion Batteries by Optimizing the Composition of Prussian Blue Cathode. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6528-6535	6.1	35
228	Enhancing membrane electrode assembly performance by improving the porous structure and hydrophobicity of the cathode catalyst layer. <i>Journal of Power Sources</i> , <b>2019</b> , 443, 227284	8.9	14
227	Rechargeable Zinc-Air Battery with Ultrahigh Power Density Based on Uniform N, Co Codoped Carbon Nanospheres. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44153-44160	9.5	13
226	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> , <b>2019</b> , 9, 1802856	21.8	142
225	Highly effective and stable doped carbon catalyst with three-dimensional porous structure and well-covered Fe <sub>3</sub> C nanoparticles prepared with C <sub>3</sub> N <sub>4</sub> and tannic acid as template/precursors. <i>Journal of Power Sources</i> , <b>2019</b> , 417, 117-124	8.9	13
224	An Isolated ZincCobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2648-2652	3.6	78

223	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2622-2626	16.4	292
222	UIO-66-NH <sub>2</sub> -Derived Mesoporous Carbon Catalyst Co-Doped with Fe/N/S as Highly Efficient Cathode Catalyst for PEMFCs. <i>Small</i> , <b>2019</b> , 15, e1803520	11	47
221	Spinel LiMn <sub>2</sub> O <sub>4</sub> Nanoparticles Grown in Situ on Nitrogen-Doped Reduced Graphene Oxide as an Efficient Cathode for a Li-O <sub>2</sub> /Li-Ion Twin Battery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 430-439	8.3	5
220	Effects of preparation conditions on the morphology and performance of palladium nanostructures. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1525-1533	6.7	1
219	MOF-Derived Carbon Materials Mounted with Highly Dispersed Ru and MoO <sub>3</sub> for Rechargeable Li-O <sub>2</sub> Cathode Yield Enhanced Cyclability. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2296-2303	8.3	6
218	High-Performance 3D Pinecone-Like LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathode for Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2019</b> , 7, 1800769	3.5	6
217	Pt/graphene with intercalated carbon nanotube spacers introduced by electrostatic self-assembly for fuel cells. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 225, 371-378	4.4	17
216	Series-connected hexacations cross-linked anion exchange membranes for diffusion dialysis in acid recovery. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 120-129	9.6	27
215	Biomass-derived 3D hierarchical N-doped porous carbon anchoring cobalt-iron phosphide nanodots as bifunctional electrocatalysts for Li O <sub>2</sub> batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 433-441	8.9	20
214	Influence of the ions distribution of anion-exchange membranes on electrodialysis. <i>Desalination</i> , <b>2018</b> , 437, 34-44	10.3	16
213	Faraday waves in a Hele-Shaw cell. <i>Physics of Fluids</i> , <b>2018</b> , 30, 042106	4.4	6
212	High porosity nitrogen and phosphorous Co-doped carbon nanosheets as an efficient catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 9749-9756	6.7	11
211	Observation of two coupled Faraday waves in a vertically vibrating Hele-Shaw cell with one of them oscillating horizontally. <i>Physics of Fluids</i> , <b>2018</b> , 30, 012108	4.4	11
210	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> , <b>2018</b> , 219, 1700416	2.6	4
209	Enhanced cyclability of Li-O <sub>2</sub> batteries with cathodes of Ir and MnO <sub>2</sub> supported on well-defined TiN arrays. <i>Nanoscale</i> , <b>2018</b> , 10, 2983-2989	7.7	35
208	Highly Selective TiN-Supported Highly Dispersed Pt Catalyst: Ultra Active toward Hydrogen Oxidation and Inactive toward Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3530-3537	9.5	37
207	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> , <b>2018</b> , 277, 110-115	6.7	27
206	On the limiting Stokes wave of extreme height in arbitrary water depth. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 843, 653-679	3.7	15

205	DFT study of high performance Pt <sub>3</sub> Sn alloy catalyst in oxygen reduction reaction. <i>Computational Materials Science</i> , <b>2018</b> , 149, 107-114	3.2	18
204	High oxygen reduction activity of TM <sub>13</sub> @Pt <sub>134</sub> and TM <sub>12</sub> N@Pt <sub>134</sub> (TM=Ti, V, Mn, Fe, Co, Ni, and Cu) core-shell electrocatalysts studied by first-principles theory. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 212, 378-384	4.4	5
203	Template-Free Preparation of 3D Porous Co-Doped VN Nanosheet-Assembled Microflowers with Enhanced Oxygen Reduction Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11604-11612	9.5	32
202	Core-Shell-Structured Low-Platinum Electrocatalysts for Fuel Cell Applications. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 324-387	29.3	58
201	Cobalt and Nitrogen Co-Doped Graphene-Carbon Nanotube Aerogel as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions. <i>Catalysts</i> , <b>2018</b> , 8, 275	4	15
200	Enhanced durability and self-humidification of platinum catalyst through decoration with SnSi binary oxide. <i>Journal of Applied Electrochemistry</i> , <b>2018</b> , 48, 1163-1173	2.6	1
199	Influence of Oxygen Contents on the Microstructure, High Temperature Oxidation and Corrosion Resistance Properties of CrSiO <sub>2</sub> Coatings. <i>Coatings</i> , <b>2018</b> , 8, 19	2.9	3
198	Formation of a Tubular Assembly by Ultrathin Ti <sub>0.8</sub> Co <sub>0.2</sub> N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogen/Metal-Air Fuel Cells. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8970-8975	13.1	115
197	In-situ IR monitoring to probe the formation of structural defects in Zr-fumarate metal-organic framework (MOF). <i>Polyhedron</i> , <b>2018</b> , 153, 205-212	2.7	6
196	Nanoconfined Nitrogen-Doped Carbon-Coated Hierarchical TiCoN Composites with Enhanced ORR Performance. <i>ChemElectroChem</i> , <b>2018</b> , 5, 2041-2049	4.3	10
195	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> , <b>2018</b> , 5, 1800314	4.6	5
194	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> , <b>2018</b> , 1, 161-166	6.1	25
193	A bi-functional WO <sub>3</sub> -based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 79-84	19.4	8
192	Enhancement of Oxygen Reduction Performance of Biomass-Derived Carbon through Co-Doping with Early Transition Metal. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, J3148-J3156	3.9	9
191	Three-Dimensional Biocarbon Framework Coupled with Uniformly Distributed FeSe Nanoparticles Derived from Pollen as Bifunctional Electrocatalysts for Oxygen Electrode Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32133-32141	9.5	18
190	Organic-phase synthesis of LiV(PO) <sub>4</sub> @Carbon nanocrystals and their lithium storage properties.. <i>RSC Advances</i> , <b>2018</b> , 8, 19335-19340	3.7	4
189	A renewable wood-derived cathode for LiO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14291-14298	14.9	24
188	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> , <b>2017</b> , 5, 5829-5837	13	70

187	Well-Defined ZIF-Derived Fe-N Codoped Carbon Nanoframes as Efficient Oxygen Reduction Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9699-9709	9.5	134
186	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> , <b>2017</b> , 5, 12354-12360	13	84
185	Binary Fe, Cu-doped bamboo-like carbon nanotubes as efficient catalyst for the oxygen reduction reaction. <i>Nano Energy</i> , <b>2017</b> , 37, 187-194	17.1	100
184	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> , <b>2017</b> , 355, 83-89	8.9	39
183	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> , <b>2017</b> , 7, 3810-3817	13.1	65
182	A Co-doped porous niobium nitride nanogrid as an effective oxygen reduction catalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14278-14285	13	31
181	Synthesis of Core-shell Structured Ru@Pd/C Catalysts for the Electrooxidation of Formic Acid. <i>Electrochimica Acta</i> , <b>2017</b> , 238, 194-201	6.7	23
180	Current research trends and perspectives on materials-based hydrogen storage solutions: A critical review. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 289-311	6.7	257
179	Uniform nitrogen and sulphur co-doped hollow carbon nanospheres as efficient metal-free electrocatalysts for oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1742-1748	13	44
178	Uniformly dispersed carbon-supported bimetallic ruthenium-platinum electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3457-3466	4.3	14
177	Review on the current practices and efforts towards pilot-scale production of metal-organic frameworks (MOFs). <i>Coordination Chemistry Reviews</i> , <b>2017</b> , 352, 187-219	23.2	125
176	Formic acid as additive for the preparation of high-performance FePO <sub>4</sub> materials by spray drying method. <i>Ceramics International</i> , <b>2017</b> , 43, 16652-16658	5.1	10
175	Platinum-decorated palladium-nanoflowers as high efficient low platinum catalyst towards oxygen reduction. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 22909-22914	6.7	9
174	From Chlorella to Nestlike Framework Constructed with Doped Carbon Nanotubes: A Biomass-Derived, High-Performance, Bifunctional Oxygen Reduction/Evolution Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32168-32178	9.5	47
173	Structural defects in metal-organic frameworks (MOFs): Formation, detection and control towards practices of interests. <i>Coordination Chemistry Reviews</i> , <b>2017</b> , 349, 169-197	23.2	109
172	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> , <b>2017</b> , 253, 142-150	6.7	14
171	IrO <sub>2</sub> nanoparticles highly dispersed on nitrogen-doped carbon nanotubes as an efficient cathode catalyst for high-performance Li-O <sub>2</sub> batteries. <i>Ceramics International</i> , <b>2017</b> , 43, 14082-14089	5.1	38
170	Atomic platinum layer coated titanium copper nitride supported on carbon nanotubes for the methanol oxidation reaction. <i>Electrochimica Acta</i> , <b>2017</b> , 248, 349-355	6.7	14

169	Methanol tolerant core-shell RuFeSe@Pt/C catalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 20658-20668	6.7	22
168	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> , <b>2017</b> , 134, 45333	2.9	11
167	Enhancing the cyclability of Li-O <sub>2</sub> batteries using PdM alloy nanoparticles anchored on nitrogen-doped reduced graphene as the cathode catalyst. <i>Journal of Power Sources</i> , <b>2017</b> , 337, 173-179	8.9	34
166	Design and Fabrication of a Dual-Photoelectrode Fuel Cell towards Cost-Effective Electricity Production from Biomass. <i>ChemSusChem</i> , <b>2017</b> , 10, 99-105	8.3	39
165	Platinum Nanoparticles on Interconnected Ni <sub>3</sub> P/Carbon Nanotube/Carbon Nanofiber Hybrid Supports with Enhanced Catalytic Activity for Fuel Cells. <i>ChemElectroChem</i> , <b>2017</b> , 4, 109-114	4.3	7
164	Effect of confinement of TiO <sub>2</sub> nanotubes over the Ru nanoparticles on Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , <b>2016</b> , 526, 45-52	5.1	26
163	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> , <b>2016</b> , 4, 4131-4136	8.3	84
162	Photoassisted Oxygen Reduction Reaction in H <sub>2</sub> -O <sub>2</sub> Fuel Cells. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14748-14751	16.4	63
161	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> , <b>2016</b> , 41, 9191-9196	6.7	4
160	Lithium-rich layered nickel-manganese oxides as high-performance cathode materials: the effects of composition and PEG on performance. <i>Ionics</i> , <b>2016</b> , 22, 2067-2073	2.7	
159	High-performance membrane electrode assembly with multi-functional Pt/SnO <sub>2</sub> /BiO <sub>2</sub> /C catalyst for proton exchange membrane fuel cell operated under low-humidity conditions. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 9197-9203	6.7	12
158	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> , <b>2016</b> , 138, 1575-83	16.4	279
157	A core-shell Pd <sub>1</sub> Ru <sub>1</sub> Ni <sub>2</sub> @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> , <b>2016</b> , 4, 847-855	13	32
156	Effects of tailoring and dehydrated cross-linking on morphology evolution of ordered mesoporous carbons. <i>RSC Advances</i> , <b>2016</b> , 6, 19515-19521	3.7	8
155	Doped reduced graphene oxide mounted with IrO <sub>2</sub> nanoparticles shows significantly enhanced performance as a cathode catalyst for Li-O <sub>2</sub> batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 192, 431-438	6.7	16
154	Nitrogen self-doped carbon nanoparticles derived from spiral seaweeds for oxygen reduction reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 27535-27541	3.7	15
153	Simultaneous doping of nitrogen and fluorine into reduced graphene oxide: A highly active metal-free electrocatalyst for oxygen reduction. <i>Carbon</i> , <b>2016</b> , 99, 272-279	10.4	46
152	Platinum nanoparticles on carbon-nanotube support prepared by room-temperature reduction with H <sub>2</sub> in ethylene glycol/water mixed solvent as catalysts for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 448-453	8.9	20



151	Biomass-derived porous heteroatom-doped carbon spheres as a high-performance catalyst for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 14101-14110	6.7	44
150	Enhanced Li-O <sub>2</sub> battery performance, using graphene-like nori-derived carbon as the cathode and adding Lil in the electrolyte as a promoter. <i>Electrochimica Acta</i> , <b>2016</b> , 200, 231-238	6.7	50
149	Multi-block copolymers with fluorene-containing hydrophilic segments densely functionalized by side-chain quaternary ammonium groups as anion exchange membranes. <i>RSC Advances</i> , <b>2016</b> , 6, 41453-41464	2.7	11
148	A hollow spherical doped carbon catalyst derived from zeolitic imidazolate framework nanocrystals impregnated/covered with iron phthalocyanines. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7859-7868	13	30
147	Highly stable and efficient platinum nanoparticles supported on TiO <sub>2</sub> @Ru-C: investigations on the promoting effects of the interpenetrated TiO <sub>2</sub> . <i>Electrochimica Acta</i> , <b>2016</b> , 216, 8-15	6.7	7
146	High porosity and surface area self-doped carbon derived from polyacrylonitrile as efficient electrocatalyst towards oxygen reduction. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 134-141	8.9	29
145	Limitations and Improvement Strategies for Early-Transition-Metal Nitrides as Competitive Catalysts toward the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6165-6174	13.1	81
144	Photoassisted Oxygen Reduction Reaction in H <sub>2</sub> O <sub>2</sub> Fuel Cells. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14968-14971	9.1	21
143	Fog-like fluffy structured N-doped carbon with a superior oxygen reduction reaction performance to a commercial Pt/C catalyst. <i>Nanoscale</i> , <b>2015</b> , 7, 3780-5	7.7	31
142	Electrochemical Behavior of Spherical LiFePO <sub>4</sub> /C Nanomaterial in Aqueous Electrolyte, and Novel Aqueous Rechargeable Lithium Battery with LiFePO <sub>4</sub> /C anode. <i>Electrochimica Acta</i> , <b>2015</b> , 177, 277-282	6.7	17
141	Hydrogen storage in Zr-fumarate MOF. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 10542-10546	6.7	51
140	Ultra-high-performance core-shell structured Ru@Pt/C catalyst prepared by a facile pulse electrochemical deposition method. <i>Scientific Reports</i> , <b>2015</b> , 5, 11604	4.9	17
139	Facile synthesis of high dispersion Fe <sub>2</sub> O <sub>3</sub> @Au nanoparticles within mesoporous silica spheres. <i>RSC Advances</i> , <b>2015</b> , 5, 49914-49919	3.7	2
138	High-Performance, Ultralow Platinum Membrane Electrode Assembly Fabricated by In Situ Deposition of a Pt Shell Layer on Carbon-Supported Pd Nanoparticles in the Catalyst Layer Using a Facile Pulse Electrodeposition Approach. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4318-4324	13.1	42
137	Pd nanoparticles decorating flower-like Co <sub>3</sub> O <sub>4</sub> nanowire clusters to form an efficient, carbon/binder-free cathode for Li-O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15626-15632	13	63
136	Synthesis and characterizations of palladium catalysts with high activity and stability for formic acid oxidation by hydrogen reduction in ethylene glycol at room temperature. <i>Journal of Power Sources</i> , <b>2015</b> , 294, 556-561	8.9	8
135	Binary transition metal nitrides with enhanced activity and durability for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16801-16809	13	87
134	Highly active carbon supported palladium catalysts decorated by a trace amount of platinum by an in-situ galvanic displacement reaction for formic acid oxidation. <i>Journal of Power Sources</i> , <b>2015</b> , 278, 332-339	8.9	11

133	Nitrogen, phosphorus and iron doped carbon nanospheres with high surface area and hierarchical porous structure for oxygen reduction. <i>Journal of Power Sources</i> , <b>2015</b> , 288, 253-260	8.9	44
132	Ruthenium nanoparticles mounted on multielement co-doped graphene: an ultra-high-efficiency cathode catalyst for LiO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11224-11231	13	57
131	An ultra high performance multi-element doped mesoporous carbon catalyst derived from poly(4-vinylpyridine). <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23512-23519	13	12
130	Mesoporous silica nanoparticle supported PdIr bimetal catalyst for selective hydrogenation, and the significant promotional effect of Ir. <i>Applied Surface Science</i> , <b>2015</b> , 357, 558-563	6.7	14
129	Three dimensional palladium nanoflowers with enhanced electrocatalytic activity towards the anodic oxidation of formic acid. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 973-977	13	13
128	Tin and Silicon Binary Oxide on the Carbon Support of a Pt Electrocatalyst with Enhanced Activity and Durability. <i>ACS Catalysis</i> , <b>2015</b> , 5, 2242-2249	13.1	38
127	Alkali resistant cross-linked poly(arylene ether sulfone)s membranes containing aromatic side-chain quaternary ammonium groups. <i>Journal of Membrane Science</i> , <b>2015</b> , 474, 187-195	9.6	59
126	Pd nano-particles (NPs) confined in titanate nanotubes (TNTs) for hydrogenation of cinnamaldehyde. <i>Catalysis Communications</i> , <b>2015</b> , 59, 184-188	3.2	49
125	Improvement of proton exchange membrane fuel cell performance in low-humidity conditions by adding hygroscopic agarose powder to the catalyst layer. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 168-173	8.9	9
124	Enhanced low-humidity performance in a proton exchange membrane fuel cell by the insertion of microcrystalline cellulose between the gas diffusion layer and the anode catalyst layer. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 15613-15621	6.7	16
123	Phosphorus and Nitrogen Dual Doped and Simultaneously Reduced Graphene Oxide with High Surface Area as Efficient Metal-Free Electrocatalyst for Oxygen Reduction. <i>Catalysts</i> , <b>2015</b> , 5, 981-991	4	84
122	A Platinum Monolayer Core-Shell Catalyst with a Ternary Alloy Nanoparticle Core and Enhanced Stability for the Oxygen Reduction Reaction. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-11	3.2	7
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118	Base-Free Oxidation of Alcohols to Esters at Room Temperature and Atmospheric Conditions using Nanoscale Co-Based Catalysts. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1850-1856	13.1	247
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116	Ultra-high-performance doped carbon catalyst derived from o-phenylenediamine and the probable roles of Fe and melamine. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 158-159, 60-69	21.8	43

115	Anion exchange membranes by bromination of benzylmethyl-containing poly(arylene ether)s for alkaline membrane fuel cells. <i>RSC Advances</i> , <b>2014</b> , 4, 29682-29693	3.7	21
114	Assessing the influence of side-chain and main-chain aromatic benzyltrimethyl ammonium on anion exchange membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7585-95	9.5	71
113	Conversion of polystyrene foam to a high-performance doped carbon catalyst with ultrahigh surface area and hierarchical porous structures for oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12240-12246	13	48
112	Pt nanoparticles entrapped in titanate nanotubes (TNT) for phenol hydrogenation: the confinement effect of TNT. <i>Chemical Communications</i> , <b>2014</b> , 50, 2794-6	5.8	62
111	Cross-linked multiblock copoly(arylene ether sulfone) ionomer/nano-ZrO <sub>2</sub> composite anion exchange membranes for alkaline fuel cells. <i>RSC Advances</i> , <b>2014</b> , 4, 41398-41410	3.7	41
110	High performance of core-shell structured Ir@Pt/C catalyst prepared by a facile pulse electrochemical deposition. <i>Electrochemistry Communications</i> , <b>2014</b> , 46, 115-119	5.1	13
109	Facile one-pot approach to the synthesis of spherical mesoporous silica nanoflowers with hierarchical pore structure. <i>Applied Surface Science</i> , <b>2014</b> , 314, 7-14	6.7	23
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107	High-performance PdRu bimetallic catalyst supported on mesoporous silica nanoparticles for phenol hydrogenation. <i>Applied Surface Science</i> , <b>2014</b> , 315, 138-143	6.7	43
106	A one-pot method to synthesize high performance multielement co-doped reduced graphene oxide catalysts for oxygen reduction. <i>Electrochemistry Communications</i> , <b>2014</b> , 47, 49-53	5.1	21
105	Self-humidifying membrane electrode assembly prepared by adding microcrystalline cellulose in anode catalyst layer as preserve moisture. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 12842-12848	6.7	7
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93	High performance Pd catalyst using silica modified titanate nanotubes (STNT) as support and its catalysis toward hydrogenation of cinnamaldehyde at ambient temperature. <i>RSC Advances</i> , <b>2014</b> , 4, 63062-63069	3.7	11
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89	Pulse electrodeposition to prepare core-shell structured AuPt@Pd/C catalyst for formic acid fuel cell application. <i>Journal of Power Sources</i> , <b>2014</b> , 246, 659-666	8.9	24
88	Hybrid PdAg alloy-Au nanorods: Controlled growth, optical properties and electrochemical catalysis. <i>Nano Research</i> , <b>2013</b> , 6, 571-580	10	32
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33	Synthesis of Co submicrospheres self-assembled by Co nanosheets via a complexant-assisted hydrothermal approach. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 30-35	2.8	18
32	Oxygen reduction reaction operated on magnetically-modified PtFe/C electrocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 942-948	6.7	31
31	Self-humidification of a PEM fuel cell using a novel Pt/SiO <sub>2</sub> /C anode catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7874-7880	6.7	41
30	Recent Development of Anode Electrocatalysts for Direct Methanol Fuel Cells. <i>Chinese Journal of Catalysis</i> , <b>2010</b> , 31, 141-149	11.3	5
29	A new 3-D microporous Ln(III)Cu(I) framework constructed by pyridine-3,5-dicarboxylate. <i>Journal of Coordination Chemistry</i> , <b>2009</b> , 62, 2290-2298	1.6	15
28	A novel cesium hydrogen sulfate-zeolite inorganic composite electrolyte membrane for polymer electrolyte membrane fuel cell application. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 483-487	8.9	12
27	Porous grape-like spherical silica with hydrogen storage capability, synthesized using neutral dual surfactants as templates. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3810-3815	6.7	5
26	Theoretical study of proton transfer in triflic acid/water, imidazole and pyrazole clusters. <i>Computational and Theoretical Chemistry</i> , <b>2009</b> , 897, 66-68		12

25	Preparation of large Co nanosheets with enhanced coercivity by a magnetic-field-assisted solvothermal approach free of surfactants, complexants or templates. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 2566-2570	2.8	4
24	Ordered hierarchical mesoporous anatase TiO <sub>2</sub> from yeast biotemplates. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2009</b> , 74, 274-8	6	44
23	Tuning the morphology of mesoporous silica by using various template combinations. <i>Applied Surface Science</i> , <b>2009</b> , 255, 9365-9370	6.7	21
22	Theoretical study on sulfonated and phosphonated poly[(aryloxy)phosphazenes] as proton-conducting membranes for fuel cell applications. <i>European Polymer Journal</i> , <b>2009</b> , 45, 2391-2394 <sup>5-2</sup>		8
21	A magnetic-field-assisted solution-phase route to cobalt thin film composed of cobalt nanosheets. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5207		21
20	Controlled-access hollow mechanized silica nanocontainers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15136-42	16.4	263
19	Synthesis and characterization of visible light responsive NiTiO <sub>2</sub> mixed crystal by a modified hydrothermal process. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 3965-3972	3.9	45
18	Synthesis of flower-like Co microcrystals composed of Co nanoplates in water/ethanol mixed solvent. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 065004	3	19
17	Method of evaluation of electron transfer kinetics of a surface-confined redox system by means of Fourier transformed square wave voltammetry. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 5666-70	7.8	10
16	From Interwoven to Noninterpenetration: Crystal Structural Motifs of Two New Manganese Organic Frameworks Mediated by the Substituted Group of the Bridging Ligand. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 628-634	2.3	20
15	A novel hollow sphere mesoporous material synthesized by using DADD template and embedding Nd into framework simultaneously. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 113, 261-267	5.3	6
14	High performance Pd-based catalysts for oxidation of formic acid. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 205-208	8.9	142
13	Organic colloid method to prepare ultrafine cobalt nanoparticles with the size of 2 nm. <i>Solid State Communications</i> , <b>2008</b> , 145, 118-121	1.6	12
12	Platinum free ternary electrocatalysts prepared via organic colloidal method for oxygen reduction. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 523-526	5.1	34
11	Diethylammonium ethyl (4-methylanilino)phosphonate chloroform solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2007</b> , 63, o3955-o3955		
10	Bis(phenylammonium) tetrachloridozincate(II) monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2007</b> , 63, m2571-m2571		6
9	Preparation of anatase F doped TiO <sub>2</sub> sol and its performance for photodegradation of formaldehyde. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 8193-8202	4.3	56
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7	Hydrogen storage of multiwalled carbon nanotubes coated with Pd-Ni nanoparticles under moderate conditions. <i>Science Bulletin</i> , <b>2006</b> , 51, 2959-2963		14
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1	Biogelatin-Derived and N,S-Codoped 3D Network Carbon Materials Anchored with RuO <sub>2</sub> as an Efficient Cathode for Rechargeable LiO <sub>2</sub> Batteries. <i>Journal of Physical Chemistry C</i> ,	3.8	3