Shijun Liao

List of Publications by Citations

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	High Performance Fe- and N- Doped Carbon Catalyst with Graphene Structure for Oxygen Reduction. *Scientific Reports*, **2013**, 3,	4.9	454
275	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 2622-2626	16.4	292
274	Transition Metal Nitride Coated with Atomic Layers of Pt as a Low-Cost, Highly Stable Electrocatalyst for the Oxygen Reduction Reaction. *Journal of the American Chemical Society*, **2016**, 138, 1575-83	16.4	279
273	Effect of Transition Metals on the Structure and Performance of the Doped Carbon Catalysts Derived From Polyaniline and Melamine for ORR Application. *ACS Catalysis*, **2014**, 4, 3797-3805	13.1	275
272	Controlled-access hollow mechanized silica nanocontainers. *Journal of the American Chemical Society*, **2009**, 131, 15136-42	16.4	263
271	High performance PtRuIr catalysts supported on carbon nanotubes for the anodic oxidation of methanol. *Journal of the American Chemical Society*, **2006**, 128, 3504-5	16.4	259
270	Current research trends and perspectives on materials-based hydrogen storage solutions: A critical review. *International Journal of Hydrogen Energy*, **2017**, 42, 289-311	6.7	257
269	Base-Free Oxidation of Alcohols to Esters at Room Temperature and Atmospheric Conditions using Nanoscale Co-Based Catalysts. *ACS Catalysis*, **2015**, 5, 1850-1856	13.1	247
268	Selective Oxidation of Saturated Hydrocarbons Using AuPd Alloy Nanoparticles Supported on Metal–Organic Frameworks. *ACS Catalysis*, **2013**, 3, 647-654	13.1	185
267	High-performance Pd–Au bimetallic catalyst with mesoporous silica nanoparticles as support and its catalysis of cinnamaldehyde hydrogenation. *Journal of Catalysis*, **2012**, 291, 36-43	7.3	178
266	Preparation of nitrogen-doped carbon nanotube arrays and their catalysis towards cathodic oxygen reduction in acidic and alkaline media. *Carbon*, **2012**, 50, 2620-2627	10.4	156
265	Preparation and characterization of ZnO/TiO2, SO42−/ZnO/TiO2 photocatalyst and their photocatalysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **2004**, 168, 7-13	4.7	156
264	Novel functionalized nano-TiO2 loading electrocatalytic membrane for oily wastewater treatment. *Environmental Science & Technology*, **2012**, 46, 6815-21	10.3	154
263	High performance Pd-based catalysts for oxidation of formic acid. *Journal of Power Sources*, **2008**, 180, 205-208	8.9	142
262	Atomic Fe-Doped MOF-Derived Carbon Polyhedrons with High Active-Center Density and Ultra-High Performance toward PEM Fuel Cells. *Advanced Energy Materials*, **2019**, 9, 1802856	21.8	142
261	Well-Defined ZIF-Derived Fe-N Codoped Carbon Nanoframes as Efficient Oxygen Reduction Catalysts. *ACS Applied Materials & Interfaces*, **2017**, 9, 9699-9709	9.5	134
260	Review on the current practices and efforts towards pilot-scale production of metal-organic frameworks (MOFs). *Coordination Chemistry Reviews*, **2017**, 352, 187-219	23.2	125

259	Tuning the Catalytic Activity of Core–Shell Nanoparticles for the Oxygen Reduction Reaction by Varying the Shell Thickness. *Journal of Physical Chemistry C*, **2013**, 117, 1748-1753	3.8	120
258	Formation of a Tubular Assembly by Ultrathin Ti0.8Co0.2N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogen–Metal–Air Fuel Cells. *ACS Catalysis*, **2018**, 8, 8970-8975	13.1	115
257	Metal-organic framework as a host for synthesis of nanoscale Co3O4 as an active catalyst for CO oxidation. *Catalysis Communications*, **2011**, 12, 875-879	3.2	112
256	Structural defects in metal–organic frameworks (MOFs): Formation, detection and control towards practices of interests. *Coordination Chemistry Reviews*, **2017**, 349, 169-197	23.2	109
255	g-C3N4 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. *Journal of Materials Chemistry A*, **2019**, 7, 5020-5030	13	102
254	Binary Fe, Cu-doped bamboo-like carbon nanotubes as efficient catalyst for the oxygen reduction reaction. *Nano Energy*, **2017**, 37, 187-194	17.1	100
253	Uniform nitrogen and sulfur co-doped carbon nanospheres as catalysts for the oxygen reduction reaction. *Carbon*, **2014**, 69, 294-301	10.4	98
252	Photo- and thermally induced coloration of a crystalline MOF accompanying electron transfer and long-lived charge separation in a stable host-guest system. *Chemical Communications*, **2012**, 48, 8114-6	5.8	98
251	Nitrogen-doped graphene prepared by a transfer doping approach for the oxygen reduction reaction application. *Journal of Power Sources*, **2014**, 245, 801-807	8.9	90
250	Binary transition metal nitrides with enhanced activity and durability for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2015**, 3, 16801-16809	13	87
249	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. *Journal of Materials Chemistry A*, **2017**, 5, 12354-12360	13	84
248	Cobalt and Nitrogen Codoped Graphene with Inserted Carbon Nanospheres as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4131-4136	8.3	84
247	Phosphorus and Nitrogen Dual Doped and Simultaneously Reduced Graphene Oxide with High Surface Area as Efficient Metal-Free Electrocatalyst for Oxygen Reduction. *Catalysts*, **2015**, 5, 981-991	4	84
246	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. *Nano-Micro Letters*, **2020**, 12, 21	19.5	83
245	Limitations and Improvement Strategies for Early-Transition-Metal Nitrides as Competitive Catalysts toward the Oxygen Reduction Reaction. *ACS Catalysis*, **2016**, 6, 6165-6174	13.1	81
244	An Isolated Zinc–Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. *Angewandte Chemie*, **2019**, 131, 2648-2652	3.6	78
243	Fluorescent and photochromic bifunctional molecular switch based on a stable crystalline metal-viologen complex. *Chemical Communications*, **2012**, 48, 11641-3	5.8	75
242	High-Performance Doped Carbon Catalyst Derived from Nori Biomass with Melamine Promoter. *Electrochimica Acta*, **2014**, 138, 353-359	6.7	72

241	Assessing the influence of side-chain and main-chain aromatic benzyltrimethyl ammonium on anion exchange membranes. *ACS Applied Materials & Interfaces*, **2014**, 6, 7585-95	9.5	71
240	Efficient hydrogen peroxide synthesis by metal-free polyterthiophene via photoelectrocatalytic dioxygen reduction. *Energy and Environmental Science*, **2020**, 13, 238-245	35.4	71
239	A high-performance composite ORR catalyst based on the synergy between binary transition metal nitride and nitrogen-doped reduced graphene oxide. *Journal of Materials Chemistry A*, **2017**, 5, 5829-5837	13	70
238	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. *ACS Catalysis*, **2017**, 7, 3810-3817	13.1	65
237	Correlation between the photoactive character and the structures of two novel metal organic frameworks. *Journal of Materials Chemistry*, **2011**, 21, 7895		65
236	Pd nanoparticles decorating flower-like Co3O4 nanowire clusters to form an efficient, carbon/binder-free cathode for Li–O2 batteries. *Journal of Materials Chemistry A*, **2015**, 3, 15626-15632	13	63
235	Photoassisted Oxygen Reduction Reaction in H -O Fuel Cells. *Angewandte Chemie - International Edition*, **2016**, 55, 14748-14751	16.4	63
234	Pt nanoparticles entrapped in titanate nanotubes (TNT) for phenol hydrogenation: the confinement effect of TNT. *Chemical Communications*, **2014**, 50, 2794-6	5.8	62
233	Alkali resistant cross-linked poly(arylene ether sulfone)s membranes containing aromatic side-chain quaternary ammonium groups. *Journal of Membrane Science*, **2015**, 474, 187-195	9.6	59
232	Core–Shell-Structured Low-Platinum Electrocatalysts for Fuel Cell Applications. *Electrochemical Energy Reviews*, **2018**, 1, 324-387	29.3	58
231	Ruthenium nanoparticles mounted on multielement co-doped graphene: an ultra-high-efficiency cathode catalyst for Li–O2 batteries. *Journal of Materials Chemistry A*, **2015**, 3, 11224-11231	13	57
230	Effects of Pt/C, Pd/C and PdPt/C anode catalysts on the performance and stability of air breathing direct formic acid fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 8518-8524	6.7	57
229	Preparation of anatase F doped TiO2 sol and its performance for photodegradation of formaldehyde. *Journal of Materials Science*, **2007**, 42, 8193-8202	4.3	56
228	Anodic oxidation of ethanol on core-shell structured Ru@PtPd/C catalyst in alkaline media. *Journal of Power Sources*, **2011**, 196, 6138-6143	8.9	55
227	Hydrogen storage in Zr-fumarate MOF. *International Journal of Hydrogen Energy*, **2015**, 40, 10542-10546	6.7	51
226	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. *ACS Applied Materials & Interfaces*, **2020**, 12, 13878-13887	9.5	50
225	Enhanced Li-O2 battery performance, using graphene-like nori-derived carbon as the cathode and adding LiI in the electrolyte as a promoter. *Electrochimica Acta*, **2016**, 200, 231-238	6.7	50
224	Pd nano-particles (NPs) confined in titanate nanotubes (TNTs) for hydrogenation of cinnamaldehyde. *Catalysis Communications*, **2015**, 59, 184-188	3.2	49

223	A hybrid metal phosphate□phosphite material grafted with electron deficient organic components showing interesting fluorescent and photosensitive properties. *Journal of Materials Chemistry A*, **2013**, 1, 4945	13	49
222	Conversion of polystyrene foam to a high-performance doped carbon catalyst with ultrahigh surface area and hierarchical porous structures for oxygen reduction. *Journal of Materials Chemistry A*, **2014**, 2, 12240-12246	13	48
221	From Chlorella to Nestlike Framework Constructed with Doped Carbon Nanotubes: A Biomass-Derived, High-Performance, Bifunctional Oxygen Reduction/Evolution Catalyst. *ACS Applied Materials & Interfaces*, **2017**, 9, 32168-32178	9.5	47
220	An effective Pd-promoted gold catalyst supported on mesoporous silica particles for the oxidation of benzyl alcohol. *Applied Catalysis B: Environmental*, **2013**, 140-141, 419-425	21.8	47
219	UIO-66-NH -Derived Mesoporous Carbon Catalyst Co-Doped with Fe/N/S as Highly Efficient Cathode Catalyst for PEMFCs. *Small*, **2019**, 15, e1803520	11	47
218	Simultaneous doping of nitrogen and fluorine into reduced graphene oxide: A highly active metal-free electrocatalyst for oxygen reduction. *Carbon*, **2016**, 99, 272-279	10.4	46
217	Synthesis and characterization of visible light responsive N□TiO2 mixed crystal by a modified hydrothermal process. *Journal of Non-Crystalline Solids*, **2008**, 354, 3965-3972	3.9	45
216	Uniform nitrogen and sulphur co-doped hollow carbon nanospheres as efficient metal-free electrocatalysts for oxygen reduction. *Journal of Materials Chemistry A*, **2017**, 5, 1742-1748	13	44
215	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. *Advanced Functional Materials*, **2019**, 29, 1900015	15.6	44
214	Nitrogen, phosphorus and iron doped carbon nanospheres with high surface area and hierarchical porous structure for oxygen reduction. *Journal of Power Sources*, **2015**, 288, 253-260	8.9	44
213	Highly stable photochromic crystalline material based on a close-packed layered metal□viologen coordination polymer. *Journal of Materials Chemistry*, **2012**, 22, 17452		44
212	High-performance gold-promoted palladium catalyst towards the hydrogenation of phenol with mesoporous hollow spheres as support. *Catalysis Communications*, **2012**, 17, 29-33	3.2	44
211	Ordered hierarchical mesoporous anatase TiO2 from yeast biotemplates. *Colloids and Surfaces B: Biointerfaces*, **2009**, 74, 274-8	6	44
210	Biomass-derived porous heteroatom-doped carbon spheres as a high-performance catalyst for the oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 14101-14110	6.7	44
209	Ultra-high-performance doped carbon catalyst derived from o-phenylenediamine and the probable roles of Fe and melamine. *Applied Catalysis B: Environmental*, **2014**, 158-159, 60-69	21.8	43
208	High-performance PdRu bimetallic catalyst supported on mesoporous silica nanoparticles for phenol hydrogenation. *Applied Surface Science*, **2014**, 315, 138-143	6.7	43
207	High-performance doped carbon electrocatalyst derived from soybean biomass and promoted by zinc chloride. *International Journal of Hydrogen Energy*, **2014**, 39, 10128-10134	6.7	43
206	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. *ACS Catalysis*, **2015**, 5, 4318-4324	13.1	42

205	Cross-linked multiblock copoly(arylene ether sulfone) ionomer/nano-ZrO2 composite anion exchange membranes for alkaline fuel cells. *RSC Advances*, **2014**, 4, 41398-41410	3.7	41
204	Self-humidification of a PEM fuel cell using a novel Pt/SiO2/C anode catalyst. *International Journal of Hydrogen Energy*, **2010**, 35, 7874-7880	6.7	41
203	MOF-Templated sword-like Co3O4@NiCo2O4 sheet arrays on carbon cloth as highly efficient Li□O2 battery cathode. *Journal of Power Sources*, **2020**, 450, 227725	8.9	40
202	Heteroatom-doped carbon nanorods with improved electrocatalytic activity toward oxygen reduction in an acidic medium. *Carbon*, **2014**, 69, 132-141	10.4	40
201	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. *Journal of Power Sources*, **2017**, 355, 83-89	8.9	39
200	Molecular packing, crystal to crystal transformation, electron transfer behaviour, and photochromic and fluorescent properties of three hydrogen-bonded supramolecular complexes containing benzenecarboxylate donors and viologen acceptors. *RSC Advances*, **2014**, 4, 42983-42990	3.7	39
199	Design and Fabrication of a Dual-Photoelectrode Fuel Cell towards Cost-Effective Electricity Production from Biomass. *ChemSusChem*, **2017**, 10, 99-105	8.3	39
198	Copper based metal-organic molecular ring with inserted Keggin-type polyoxometalate: a stable photofunctional host-guest molecular system. *Chemical Communications*, **2012**, 48, 6154-6	5.8	39
197	Tin and Silicon Binary Oxide on the Carbon Support of a Pt Electrocatalyst with Enhanced Activity and Durability. *ACS Catalysis*, **2015**, 5, 2242-2249	13.1	38
196	Hierarchically open-porous carbon networks enriched with exclusive FeNx active sites as efficient oxygen reduction catalysts towards acidic H2□O2 PEM fuel cell and alkaline Zn□air battery. *Chemical Engineering Journal*, **2020**, 390, 124479	14.7	38
195	IrO2 nanoparticles highly dispersed on nitrogen-doped carbon nanotubes as an efficient cathode catalyst for high-performance Li-O2 batteries. *Ceramics International*, **2017**, 43, 14082-14089	5.1	38
194	Preparation and characterization of core□shell structured catalysts using PtxPdy as active shell and nano-sized Ru as core for potential direct formic acid fuel cell application. *Electrochimica Acta*, **2011**, 56, 2024-2030	6.7	38
193	A mesoporous hollow silica sphere (MHSS): Synthesis through a facile emulsion approach and application of support for high performance Pd/MHSS catalyst for phenol hydrogenation. *Applied Surface Science*, **2011**, 257, 4472-4477	6.7	38
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190	Enhanced water management in the cathode of an air-breathing PEMFC using a dual catalyst layer and optimizing the gas diffusion and microporous layers. *International Journal of Hydrogen Energy*, **2015**, 40, 3961-3967	6.7	36
189	Enhanced cyclability of Li-O batteries with cathodes of Ir and MnO supported on well-defined TiN arrays. *Nanoscale*, **2018**, 10, 2983-2989	7.7	35
188	Improving Potassium-Ion Batteries by Optimizing the Composition of Prussian Blue Cathode. *ACS Applied Energy Materials*, **2019**, 2, 6528-6535	6.1	35

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185	Coupling hollow FeO nanoparticles with oxygen vacancy on mesoporous carbon as a high-efficiency ORR electrocatalyst for Zn-air battery. *Journal of Colloid and Interface Science*, **2020**, 567, 410-418	9.3	34
184	High performance LiFePO4 microsphere composed of nanofibers with an alcohol-thermal approach. *Journal of Materials Chemistry A*, **2013**, 1, 4546	13	34
183	Enhancing the cyclability of Li□ 2 batteries using PdM alloy nanoparticles anchored on nitrogen-doped reduced graphene as the cathode catalyst. *Journal of Power Sources*, **2017**, 337, 173-179	8.9	34
182	Design, fabrication and performance evaluation of a miniature air breathing direct formic acid fuel cell based on printed circuit board technology. *Journal of Power Sources*, **2010**, 195, 7332-7337	8.9	34
181	Platinum free ternary electrocatalysts prepared via organic colloidal method for oxygen reduction. *Electrochemistry Communications*, **2008**, 10, 523-526	5.1	34
180	Prussian Blue [K2FeFe(CN)6] Doped with Nickel as a Superior Cathode: An Efficient Strategy To Enhance Potassium Storage Performance. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16659-16667	8.3	33
179	Synthesis of a 3D photochromic coordination polymer with an interpenetrating arrangement: crystal engineering for electron transfer between donor and acceptor units. *CrystEngComm*, **2012**, 14, 5137	3.3	33
178	Advanced Atomically Dispersed Metal□Nitrogen□Carbon Catalysts Toward Cathodic Oxygen Reduction in PEM Fuel Cells. *Advanced Energy Materials*, **2021**, 11, 2101222	21.8	33
177	Template-Free Preparation of 3D Porous Co-Doped VN Nanosheet-Assembled Microflowers with Enhanced Oxygen Reduction Activity. *ACS Applied Materials & Interfaces*, **2018**, 10, 11604-11612	9.5	32
176	A core□shell Pd1Ru1Ni2@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. *Journal of Materials Chemistry A*, **2016**, 4, 847-855	13	32
175	Hybrid PdAg alloy-Au nanorods: Controlled growth, optical properties and electrochemical catalysis. *Nano Research*, **2013**, 6, 571-580	10	32
174	A Co-doped porous niobium nitride nanogrid as an effective oxygen reduction catalyst. *Journal of Materials Chemistry A*, **2017**, 5, 14278-14285	13	31
173	Fog-like fluffy structured N-doped carbon with a superior oxygen reduction reaction performance to a commercial Pt/C catalyst. *Nanoscale*, **2015**, 7, 3780-5	7.7	31
172	A biocompatible drug delivery nanovalve system on the surface of mesoporous nanoparticles. *Microporous and Mesoporous Materials*, **2012**, 147, 200-204	5.3	31
171	Selenium-Functionalized Carbon as a Support for Platinum Nanoparticles with Improved Electrochemical Properties for the Oxygen Reduction Reaction and CO Tolerance. *Journal of the Electrochemical Society*, **2013**, 160, H266-H270	3.9	31
170	Oxygen reduction reaction operated on magnetically-modified PtFe/C electrocatalyst. *International Journal of Hydrogen Energy*, **2010**, 35, 942-948	6.7	31

169	Design of ultralong-life Li□O2 batteries with IrO2 nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. *Journal of Materials Chemistry A*, **2020**, 8, 3763-3770	13	31
168	A hollow spherical doped carbon catalyst derived from zeolitic imidazolate framework nanocrystals impregnated/covered with iron phthalocyanines. *Journal of Materials Chemistry A*, **2016**, 4, 7859-7868	13	30
167	Effects of Metal Ions and Ligand Functionalization on Hydrogen Storage in Metal□Organic Frameworks by Spillover. *Journal of Physical Chemistry C*, **2011**, 115, 13829-13836	3.8	29
166	High porosity and surface area self-doped carbon derived from polyacrylonitrile as efficient electrocatalyst towards oxygen reduction. *Journal of Power Sources*, **2016**, 324, 134-141	8.9	29
165	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2020**, 8, 15822-15828	13	28
164	Tuning hydrophobic-hydrophilic balance of cathode catalyst layer to improve cell performance of proton exchange membrane fuel cell (PEMFC) by mixing polytetrafluoroethylene (PTFE). *Electrochimica Acta*, **2018**, 277, 110-115	6.7	27
163	Series-connected hexacations cross-linked anion exchange membranes for diffusion dialysis in acid recovery. *Journal of Membrane Science*, **2019**, 570-571, 120-129	9.6	27
162	Effect of confinement of TiO 2 nanotubes over the Ru nanoparticles on Fischer-Tropsch synthesis. *Applied Catalysis A: General*, **2016**, 526, 45-52	5.1	26
161	Two-step oxalate approach for the preparation of high performance LiNi0.5Mn1.5O4 cathode material with high voltage. *Journal of Power Sources*, **2014**, 247, 437-443	8.9	25
160	Nitrogen, Sulfur Co-doped Carbon Derived from Naphthalene-Based Covalent Organic Framework as an Efficient Catalyst for Oxygen Reduction. *ACS Applied Energy Materials*, **2018**, 1, 161-166	6.1	25
159	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. *ACS Applied Materials & Interfaces*, **2020**, 12, 11737-11744	9.5	24
158	Pulse electrodeposition to prepare core□shell structured AuPt@Pd/C catalyst for formic acid fuel cell application. *Journal of Power Sources*, **2014**, 246, 659-666	8.9	24
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156	Synthesis of Core-shell Structured Ru@Pd/C Catalysts for the Electrooxidation of Formic Acid. *Electrochimica Acta*, **2017**, 238, 194-201	6.7	23
155	Dendrite-Free Composite Li Anode Assisted by Ag Nanoparticles in a Wood-Derived Carbon Frame. *ACS Applied Materials & Interfaces*, **2019**, 11, 18361-18367	9.5	23
154	Facile one-pot approach to the synthesis of spherical mesoporous silica nanoflowers with hierarchical pore structure. *Applied Surface Science*, **2014**, 314, 7-14	6.7	23
153	Preparation and characterizations of highly dispersed carbon supported PdxPty/C catalysts by a modified citrate reduction method for formic acid electrooxidation. *Journal of Power Sources*, **2014**, 254, 183-189	8.9	23
152	Effect of the structure of Ni nanoparticles on the electrocatalytic activity of Ni@Pd/C for formic acid oxidation. *International Journal of Hydrogen Energy*, **2013**, 38, 13125-13131	6.7	22

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150	Self-humidifying membrane electrode assembly prepared by adding PVA as hygroscopic agent in anode catalyst layer. *International Journal of Hydrogen Energy*, **2012**, 37, 12860-12867	6.7	22
149	Anion exchange membranes by bromination of benzylmethyl-containing poly(arylene ether)s for alkaline membrane fuel cells. *RSC Advances*, **2014**, 4, 29682-29693	3.7	21
148	A one-pot method to synthesize high performance multielement co-doped reduced graphene oxide catalysts for oxygen reduction. *Electrochemistry Communications*, **2014**, 47, 49-53	5.1	21
147	A pulse electrochemical deposition method to prepare membrane electrode assemblies with ultra-low anode Pt loadings through in situ construction of active core□shell nanoparticles on an electrode. *Journal of Power Sources*, **2014**, 260, 27-33	8.9	21
146	Nitrogen and Fluorine co-doped carbon catalyst with high oxygen reduction performance, prepared by pyrolyzing a mixture of melamine and PTFE. *Electrochimica Acta*, **2015**, 182, 963-970	6.7	21
145	Electrostatic interaction based hollow Pt and Ru assemblies toward methanol oxidation. *RSC Advances*, **2012**, 2, 7479	3.7	21
144	The Effect of PtRuIr Nanoparticle Crystallinity in Electrocatalytic Methanol Oxidation. *Materials*, **2013**, 6, 1621-1631	3.5	21
143	Tuning the morphology of mesoporous silica by using various template combinations. *Applied Surface Science*, **2009**, 255, 9365-9370	6.7	21
142	Platinum decorated Ru/C: Effects of decorated platinum on catalyst structure and performance for the methanol oxidation reaction. *Journal of Power Sources*, **2011**, 196, 54-61	8.9	21
141	A magnetic-field-assisted solution-phase route to cobalt thin film composed of cobalt nanosheets. *Journal of Materials Chemistry*, **2009**, 19, 5207		21
140	Photoassisted Oxygen Reduction Reaction in H2□O2 Fuel Cells. *Angewandte Chemie*, **2016**, 128, 14968-14971	3.6	21
139	Platinum nanoparticles on carbon-nanotube support prepared by room-temperature reduction with H2 in ethylene glycol/water mixed solvent as catalysts for polymer electrolyte membrane fuel cells. *Journal of Power Sources*, **2016**, 306, 448-453	8.9	20
138	From Interwoven to Noninterpenetration: Crystal Structural Motifs of Two New Manganese□Organic Frameworks Mediated by the Substituted Group of the Bridging Ligand. *European Journal of Inorganic Chemistry*, **2008**, 2008, 628-634	2.3	20
137	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. *Energy Storage Materials*, **2020**, 26, 513-533	19.4	20
136	Biomass-derived 3D hierarchical N-doped porous carbon anchoring cobalt-iron phosphide nanodots as bifunctional electrocatalysts for Li O2 batteries. *Journal of Power Sources*, **2019**, 412, 433-441	8.9	20
135	Preparation and characterizations of platinum electrocatalysts supported on thermally treated CeO2□ composite support for polymer electrolyte membrane fuel cells. *Electrochimica Acta*, **2014**, 139, 308-314	6.7	19
134	Synthesis of flower-like Co microcrystals composed of Co nanoplates in water/ethanol mixed solvent. *Journal Physics D: Applied Physics*, **2008**, 41, 065004	3	19

133	DFT study of high performance Pt3Sn alloy catalyst in oxygen reduction reaction. *Computational Materials Science*, **2018**, 149, 107-114	3.2	18
132	High-performance self-humidifying membrane electrode assembly prepared by simultaneously adding inorganic and organic hygroscopic materials to the anode catalyst layer. *Journal of Power Sources*, **2013**, 241, 367-372	8.9	18
131	Highly stable and active Pt electrocatalysts on TiO 2 -Co 3 O 4 -C composite support for polymer exchange membrane fuel cells. *Electrochimica Acta*, **2015**, 154, 266-272	6.7	18
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129	Synthesis of Co submicrospheres self-assembled by Co nanosheets via a complexant-assisted hydrothermal approach. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 30-35	2.8	18
128	Three-Dimensional Biocarbon Framework Coupled with Uniformly Distributed FeSe Nanoparticles Derived from Pollen as Bifunctional Electrocatalysts for Oxygen Electrode Reactions. *ACS Applied Materials & Interfaces*, **2018**, 10, 32133-32141	9.5	18
127	Electrochemical Behavior of Spherical LiFePO 4 /C Nanomaterial in Aqueous Electrolyte, and Novel Aqueous Rechargeable Lithium Battery with LiFePO 4 /C anode. *Electrochimica Acta*, **2015**, 177, 277-282	6.7	17
126	Ultra-high-performance core-shell structured Ru@Pt/C catalyst prepared by a facile pulse electrochemical deposition method. *Scientific Reports*, **2015**, 5, 11604	4.9	17
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