Zhen-Bo Wang

List of Publications by Citations

249 papers	8,895 citations	51 h-index	82 g-index
257 ext. papers	10,496 ext. citations	8.5 avg, IF	6.49 L-index

#	Paper	IF	Citations
249	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. *Nature Catalysis*, **2018**, 1, 935-945	36.5	691
248	Proton exchange membrane fuel cell from low temperature to high temperature: Material challenges. *Journal of Power Sources*, **2007**, 167, 235-242	8.9	425
247	Effect of carbon black support corrosion on the durability of Pt/C catalyst. *Journal of Power Sources* , **2007**, 171, 331-339	8.9	343
246	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN Sites for Oxygen Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 18971-18980	16.4	207
245	A novel structural design of a Pt/C-CeO2 catalyst with improved performance for methanol electro-oxidation by □-cyclodextrin carbonization. *Advanced Materials*, **2011**, 23, 3100-4	24	186
244	Ultrahigh stable carbon riveted Pt/TiO2□ catalyst prepared by in situ carbonized glucose for proton exchange membrane fuel cell. *Energy and Environmental Science*, **2011**, 4, 728-735	35.4	170
243	A high energy density aqueous hybrid supercapacitor with widened potential window through multi approaches. *Nano Energy*, **2019**, 59, 41-49	17.1	146
242	Super long-life all solid-state asymmetric supercapacitor based on NiO nanosheets and □-Fe 2 O 3 nanorods. *Chemical Engineering Journal*, **2016**, 306, 193-203	14.7	136
241	Investigation of Further Improvement of Platinum Catalyst Durability with Highly Graphitized Carbon Nanotubes Support. *Journal of Physical Chemistry C*, **2008**, 112, 5784-5789	3.8	120
240	Electrochemical impedance studies on carbon supported PtRuNi and PtRu anode catalysts in acid medium for direct methanol fuel cell. *Journal of Power Sources*, **2007**, 165, 9-15	8.9	109
239	Supramolecular assembly promoted synthesis of three-dimensional nitrogen doped graphene frameworks as efficient electrocatalyst for oxygen reduction reaction and methanol electrooxidation. *Applied Catalysis B: Environmental*, **2018**, 231, 224-233	21.8	102
238	Studies on stability and capacity for long-life cycle performance of Li(Ni 0.5 Co 0.2 Mn 0.3)O 2 by Mo modification for lithium-ion battery. *Journal of Power Sources*, **2017**, 358, 1-12	8.9	99
237	Carbon riveted microcapsule Pt/MWCNTs-TiO2catalyst prepared by in situ carbonized glucose with ultrahigh stability for proton exchange membrane fuel cell. *Energy and Environmental Science*, **2011**, 4, 2558	35.4	94
236	Template-guided synthesis of Co nanoparticles embedded in hollow nitrogen doped carbon tubes as a highly efficient catalyst for rechargeable Zn-air batteries. *Nano Energy*, **2020**, 71, 104592	17.1	92
235	Methanol oxidation on Pt/CeO2□ electrocatalyst prepared by microwave-assisted ethylene glycol process. *Applied Catalysis B: Environmental*, **2011**, 102, 9-18	21.8	92
234	Effect of Ni on PtRu/C Catalyst Performance for Ethanol Electrooxidation in Acidic Medium. *Journal of Physical Chemistry C*, **2008**, 112, 6582-6587	3.8	90
233	Metal-Organic Frameworks and Their Derived Materials as Electrocatalysts and Photocatalysts for CO Reduction: Progress, Challenges, and Perspectives. *Chemistry - A European Journal*, **2018**, 24, 18137-18157	4.8	90

232	Investigation of ethanol electrooxidation on a PtRuNi/C catalyst for a direct ethanol fuel cell. *Journal of Power Sources*, **2006**, 160, 37-43	8.9	89
231	Durability studies on performance degradation of Pt/C catalysts of proton exchange membrane fuel cell. *International Journal of Hydrogen Energy*, **2009**, 34, 4387-4394	6.7	85
230	Synthesis and characterization of PtRuMo/C nanoparticle electrocatalyst for direct ethanol fuel cell. *Journal of Power Sources*, **2007**, 170, 242-250	8.9	84
229	Ethanol-assisted hydrothermal synthesis of LiNi0.5Mn1.5O4 with excellent long-term cyclability at high rate for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 4185-4191	13	80
228	Electrochemical studies of Pt/IrO2 electrocatalyst as a bifunctional oxygen electrode. *International Journal of Hydrogen Energy*, **2012**, 37, 59-67	6.7	80
227	Pt/porous-IrO2 nanocomposite as promising electrocatalyst for unitized regenerative fuel cell. *Electrochemistry Communications*, **2012**, 14, 63-66	5.1	77
226	Investigation of PtNi/C anode electrocatalysts for direct borohydride fuel cell. *Journal of Power Sources*, **2010**, 195, 185-189	8.9	77
225	Investigation on CTiO2 nanotubes composite as Pt catalyst support for methanol electrooxidation. *Journal of Power Sources*, **2014**, 255, 43-51	8.9	76
224	Effects of ozone treatment of carbon support on PtRu/C catalysts performance for direct methanol fuel cell. *Carbon*, **2006**, 44, 133-140	10.4	76
223	Self-assembling hierarchical NiCo2O4/MnO2 nanosheets and MoO3/PPy core-shell heterostructured nanobelts for supercapacitor. *Chemical Engineering Journal*, **2017**, 312, 296-305	14.7	74
222	Honeycomb-like mesoporous nitrogen-doped carbon supported Pt catalyst for methanol electrooxidation. *Carbon*, **2015**, 93, 1050-1058	10.4	73
221	3D Hierarchical Pt-Nitrogen-Doped-Graphene-Carbonized Commercially Available Sponge as a Superior Electrocatalyst for Low-Temperature Fuel Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 16026-34	9.5	73
220	Multiwall-carbon nanotube modified by N-doped carbon quantum dots as Pt catalyst support for methanol electrooxidation. *Journal of Power Sources*, **2015**, 289, 63-70	8.9	73
219	Pseudocapacitance of TiO /CNT Anodes for High-Performance Quasi-Solid-State Li-Ion and Na-Ion Capacitors. *Small*, **2018**, 14, e1704508	11	65
218	Layered-spinel capped nanotube assembled 3D Li-rich hierarchitectures for high performance Li-ion battery cathodes. *Journal of Materials Chemistry A*, **2016**, 4, 18416-18425	13	65
217	Facile one-pot synthesis of Pt/graphene-TiO2 hybrid catalyst with enhanced methanol electrooxidation performance. *Journal of Power Sources*, **2015**, 279, 210-217	8.9	63
216	Robust and Conductive Na2Ti2O5 Nanowire Arrays for High-Performance Flexible Sodium-Ion Capacitor. *Chemistry of Materials*, **2017**, 29, 9133-9141	9.6	62
215	Dual conductive surface engineering of Li-Rich oxides cathode for superior high-energy-density Li-Ion batteries. *Nano Energy*, **2019**, 59, 527-536	17.1	61

214	Performance of Pt/C catalysts prepared by microwave-assisted polyol process for methanol electrooxidation. *Journal of Power Sources*, **2010**, 195, 1799-1804	8.9	61
213	Controllable synthesis of hierarchical ball-in-ball hollow microspheres for a high performance layered Li-rich oxide cathode material. *Journal of Materials Chemistry A*, **2017**, 5, 9365-9376	13	60
212	In Situ Growth of Free-Standing All Metal Oxide Asymmetric Supercapacitor. *ACS Applied Materials & Interfaces*, **2016**, 8, 26019-26029	9.5	59
211	The influence of anode gas diffusion layer on the performance of low-temperature DMFC. *Journal of Power Sources*, **2007**, 168, 453-458	8.9	59
210	3D ultralong nanowire arrays with a tailored hydrogen titanate phase as binder-free anodes for Li-ion capacitors. *Journal of Materials Chemistry A*, **2016**, 4, 8716-8723	13	59
209	Local electronic structure modulation enhances operating voltage in Li-rich cathodes. *Nano Energy*, **2019**, 66, 104102	17.1	58
208	Elastic soft hydrogel supercapacitor for energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 24942-24950	13	58
207	Carbon riveted Pt/C catalyst with high stability prepared by in situ carbonized glucose. *Chemical Communications*, **2010**, 46, 6998-7000	5.8	58
206	High energy and power lithium-ion capacitors based on Mn3O4/3D-graphene as anode and activated polyaniline-derived carbon nanorods as cathode. *Chemical Engineering Journal*, **2019**, 370, 1485-1492	14.7	57
205	Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. *Advanced Materials*, **2020**, 32, e2000151	24	56
204	Facile synthesis of hollow spherical sandwich PtPd/C catalyst by electrostatic self-assembly in polyol solution for methanol electrooxidation. *Journal of Power Sources*, **2012**, 203, 17-25	8.9	56
203	1D N-doped hierarchically porous hollow carbon tubes derived from a supramolecular template as metal-free electrocatalysts for a highly efficient oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 6212-6219	13	55
202	A novel Pt/Au/C cathode catalyst for direct methanol fuel cells with simultaneous methanol tolerance and oxygen promotion. *Electrochemistry Communications*, **2008**, 10, 831-834	5.1	52
201	Hybrid of carbon-supported Pt nanoparticles and three dimensional graphene aerogel as high stable electrocatalyst for methanol electrooxidation. *Electrochimica Acta*, **2016**, 189, 175-183	6.7	51
200	Effects of hot pressing conditions on the performances of MEAs for direct methanol fuel cells. *Journal of Power Sources*, **2007**, 165, 73-81	8.9	51
199	Single-site pyrrolic-nitrogen-doped sp-hybridized carbon materials and their pseudocapacitance. *Nature Communications*, **2020**, 11, 3884	17.4	51
198	A newly-designed sandwich-structured graphene□Pt□graphene catalyst with improved electrocatalytic performance for fuel cells. *Journal of Materials Chemistry A*, **2015**, 3, 5313-5320	13	50
197	Preparation of Pt/Irx(IrO2)10□ bifunctional oxygen catalyst for unitized regenerative fuel cell. *Journal of Power Sources*, **2012**, 210, 321-326	8.9	48

196	Effect of a Carbon Support Containing Large Mesopores on the Performance of a PtRuNi/C Catalyst for Direct Methanol Fuel Cells. *Journal of Physical Chemistry C*, **2010**, 114, 672-677	3.8	47
195	Effects of MEA preparation on the performance of a direct methanol fuel cell. *Journal of Power Sources*, **2006**, 160, 1035-1040	8.9	47
194	A sponge-templated sandwich-like cobalt-embedded nitrogen-doped carbon polyhedron/graphene composite as a highly efficient catalyst for Zn-air batteries. *Nanoscale*, **2020**, 12, 973-982	7.7	47
193	Self-Templated Hierarchically Porous Carbon Nanorods Embedded with Atomic Fe-N4 Active Sites as Efficient Oxygen Reduction Electrocatalysts in Zn-Air Batteries. *Advanced Functional Materials*, **2021**, 31, 2008085	15.6	47
192	Synergistic effects of ion doping and surface-modifying for lithium transition-metal oxide: Synthesis and characterization of La 2 O 3 -modified LiNi 1/3 Co 1/3 Mn 1/3 O 2. *Electrochimica Acta* , **2018**, 272, 11-21	6.7	46
191	Investigation on performance of Li(Ni0.5Co0.2Mn0.3)1TixO2 cathode materials for lithium-ion battery. *Ceramics International*, **2015**, 41, 9069-9077	5.1	45
190	Nitrogen-doped carbon nanotubes for high-performance platinum-based catalysts in methanol oxidation reaction. *Carbon*, **2016**, 108, 561-567	10.4	45
189	Effect of multiwalled carbon nanotubes with different specific surface areas on the stability of supported Pt catalysts. *Journal of Power Sources*, **2014**, 245, 637-643	8.9	44
188	Investigation on performance of Pd/Al2O3 catalyst synthesized by microwave assisted polyol process for electrooxidation of formic acid. *RSC Advances*, **2012**, 2, 344-350	3.7	44
187	Growth of ZnO nanostructures on metallic and semiconducting substrates by pulsed laser deposition technique. *Journal Physics D: Applied Physics*, **2009**, 42, 045415	3	44
186	Crystal structure and multicomponent effects in Li1+xMn2AlyO4 cathode materials for Li-ion batteries. *Journal of Power Sources*, **2014**, 262, 104-111	8.9	43
185	Ultrathin graphitic carbon nitride nanosheets and graphene composite material as high-performance PtRu catalyst support for methanol electro-oxidation. *Carbon*, **2015**, 93, 105-115	10.4	43
184	Electrochemical durability investigation of single-walled and multi-walled carbon nanotubes under potentiostatic conditions. *Journal of Power Sources*, **2008**, 176, 128-131	8.9	41
183	Investigation of the PtNiPb/C ternary alloy catalysts for methanol electrooxidation. *Electrochemistry Communications*, **2008**, 10, 443-446	5.1	41
182	Investigations of Compositions and Performance of PtRuMo/C Ternary Catalysts for Methanol Electrooxidation. *Fuel Cells*, **2009**, 9, 106-113	2.9	40
181	Binder-free VO/CNT paper electrode for high rate performance zinc ion battery. *Nanoscale*, **2019**, 11, 19723-19728	7.7	40
180	Graphitic carbon nitride nanosheet coated carbon black as a high-performance PtRu catalyst support material for methanol electrooxidation. *Journal of Materials Chemistry A*, **2014**, 2, 20139-20146	13	39
179	3D N-doped graphene nanomesh foam for long cycle life lithium-sulfur battery. *Chemical Engineering Journal*, **2017**, 326, 265-272	14.7	38

178	Investigation on electrochemical performance of LiNi0.8Co0.15Al0.05O2 coated by heterogeneous layer of TiO2. *Journal of Alloys and Compounds*, **2018**, 739, 961-971	5.7	38
177	Advanced deformable all-in-one hydrogel supercapacitor based on conducting polymer: Toward integrated mechanical and capacitive performance. *Journal of Alloys and Compounds*, **2019**, 805, 1044-1051	5.7	38
176	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN4 Sites for Oxygen Reduction. *Angewandte Chemie*, **2019**, 131, 19147-19156	3.6	38
175	Investigation on preparation and performance of spinel LiNi0.5Mn1.5O4 with different microstructures for lithium-ion batteries. *Scientific Reports*, **2015**, 5, 13299	4.9	38
174	A lightweight, compressible and portable sponge-based supercapacitor for future power supply. *Chemical Engineering Journal*, **2018**, 349, 509-521	14.7	37
173	Hierarchical carbon coated molybdenum dioxide nanotubes as a highly active and durable electrocatalytic support for methanol oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 4067-4074	13	36
172	Preparation of submicrocrystal LiMn2O4 used Mn3O4 as precursor and its electrochemical performance for lithium ion battery. *Journal of Alloys and Compounds*, **2015**, 622, 902-907	5.7	36
171	Ascorbic acid-assisted solvothermal synthesis of LiMn 0.9 Fe 0.1 PO 4 /C nanoplatelets with enhanced electrochemical performance for lithium ion batteries. *Journal of Power Sources*, **2013**, 243, 872-879	8.9	36
170	Studies of performance decay of Pt/C catalysts with working time of proton exchange membrane fuel cell. *Journal of Power Sources*, **2008**, 184, 245-250	8.9	36
169	Pt/Tin Oxide/Carbon Nanocomposites as Promising Oxygen Reduction Electrocatalyst with Improved Stability and Activity. *Electrochimica Acta*, **2014**, 117, 413-419	6.7	35
168	A low-cost wearable yarn supercapacitor constructed by a highly bended polyester fiber electrode and flexible film. *Journal of Materials Chemistry A*, **2017**, 5, 15144-15153	13	34
167	Investigation of the performance decay of anodic PtRu catalyst with working time of direct methanol fuel cells. *Journal of Power Sources*, **2008**, 181, 93-100	8.9	34
166	Fabrication and theoretical investigation of cobaltosic sulfide nanosheets for flexible aqueous Zn/Co batteries. *Nano Energy*, **2020**, 68, 104314	17.1	34
165	Ultra-fine Pt nanoparticles supported on 3D porous N-doped graphene aerogel as a promising electro-catalyst for methanol electrooxidation. *Catalysis Communications*, **2016**, 86, 46-50	3.2	34
164	NiMoO4 nanowire arrays and carbon nanotubes film as advanced electrodes for high-performance supercapacitor. *Applied Surface Science*, **2018**, 458, 478-488	6.7	33
163	High performance Na3V2(PO4)3 cathode prepared by a facile solution evaporation method for sodium-ion batteries. *Ceramics International*, **2017**, 43, 4950-4956	5.1	32
162	Catalyst failure analysis of a direct methanol fuel cell membrane electrode assembly. *Journal of Power Sources*, **2008**, 177, 386-392	8.9	32
161	Advanced non-noble materials in bifunctional catalysts for ORR and OER toward aqueous metal-air batteries. *Nanoscale*, **2020**, 12, 21534-21559	7.7	32

160	Co-regulating the surface and bulk structure of Li-rich layered oxides by a phosphor doping strategy for high-energy Li-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 8302-8314	13	31
159	Structural, morphological and electrochemical investigation of LiNi0.6Co0.2Mn0.2O2 cathode material synthesized in different sintering conditions. *Ceramics International*, **2015**, 41, 11815-11823	5.1	31
158	Influence of cathode oxygen transport on the discharging time of passive DMFC. *Journal of Power Sources*, **2008**, 175, 458-463	8.9	31
157	Carbon riveted PtRu/C catalyst from glucose in-situ carbonization through hydrothermal method for direct methanol fuel cell. *Journal of Power Sources*, **2013**, 238, 283-289	8.9	30
156	Enhanced electrochemical performance by size-dependent SEI layer reactivation of NiCo2O4 anodes for lithium ion batteries. *Electrochimica Acta*, **2019**, 297, 1011-1017	6.7	30
155	Facile one-step carbothermal reduction synthesis of Na3V2(PO4)2F3/C serving as cathode for sodium ion batteries. *Electrochimica Acta*, **2019**, 298, 459-467	6.7	30
154	High sulfur content microporous carbon coated sulfur composites synthesized via in situ oxidation of metal sulfide for high-performance Li/S batteries. *Journal of Materials Chemistry A*, **2017**, 5, 6052-6059	13	29
153	Phosphotungstic acid immobilized nanofibers-Nafion composite membrane with low vanadium permeability and high selectivity for vanadium redox flow battery. *Journal of Colloid and Interface Science*, **2019**, 542, 177-186	9.3	29
152	Effect of different structures of carbon supports for cathode catalyst on performance of direct methanol fuel cell. *International Journal of Hydrogen Energy*, **2016**, 41, 1859-1870	6.7	29
151	Carbon-riveted Pt catalyst supported on nanocapsule MWCNTs-Al2O3 with ultrahigh stability for high-temperature proton exchange membrane fuel cells. *Nanoscale*, **2012**, 4, 7411-8	7.7	29
150	Materializing efficient methanol oxidation via electron delocalization in nickel hydroxide nanoribbon. *Nature Communications*, **2020**, 11, 4647	17.4	29
149	Hierarchical Heterostructured Mo2C/Mo3Co3C Bouquet-like Nanowire Arrays: An Efficient Electrocatalyst for Hydrogen Evolution Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7294-7303	8.3	28
148	Multiphase sodium titanate/titania composite nanostructures as Pt-based catalyst supports for methanol oxidation. *Journal of Materials Chemistry A*, **2015**, 3, 840-846	13	28
147	Metal-free amino acid glycine-derived nitrogen-doped carbon aerogel with superhigh surface area for highly efficient Zn-Air batteries. *Carbon*, **2020**, 167, 75-84	10.4	27
146	Effects of anatase TiO2 with different particle sizes and contents on the stability of supported Pt catalysts. *Journal of Power Sources*, **2011**, 196, 8207-8215	8.9	27
145	Thermal-induced interlayer defect engineering toward super high-performance sodium ion capacitors. *Nano Energy*, **2019**, 59, 17-25	17.1	26
144	Tuning lattice spacing in titanate nanowire arrays for enhanced sodium storage and long-term stability. *Nano Energy*, **2018**, 45, 337-345	17.1	26
143	Effect of anode current collector on the performance of passive direct methanol fuel cells. *International Journal of Energy Research*, **2009**, 33, 719-727	4.5	25

142	Effect of W on activity of PtRu/C catalyst for methanol electrooxidation in acidic medium. *Journal of Alloys and Compounds*, **2009**, 479, 395-400	5.7	25
141	Platinum Deposition on Multiwalled Carbon Nanotubes by Ion-Exchange Method as Electrocatalysts for Oxygen Reduction. *Journal of the Electrochemical Society*, **2007**, 154, B687	3.9	25
140	Effects of precursor particle size on the performance of LiNi0.5Co0.2Mn0.3O2 cathode material. *Ceramics International*, **2015**, 41, 15185-15192	5.1	24
139	Mesoporous g-C3N4 derived nano-titanium nitride modified carbon black as ultra-fine PtRu catalyst support for Methanol electro-oxidation. *International Journal of Hydrogen Energy*, **2018**, 43, 5153-5162	6.7	24
138	In-situ surface chemical and structural self-reconstruction strategy enables high performance of Li-rich cathode. *Nano Energy*, **2021**, 79, 105459	17.1	24
137	Tungsten doped CoSe nanocomposites as an efficient non precious metal catalyst for oxygen reduction. *Electrochimica Acta*, **2013**, 91, 179-184	6.7	23
136	Improvement of cycle performance for silicon/carbon composite used as anode for lithium ion batteries. *Materials Chemistry and Physics*, **2009**, 115, 757-760	4.4	23
135	Three-dimensional hybrid aerogels built from graphene and polypyrrole-derived nitrogen-doped carbon nanotubes as a high-efficiency Pt-based catalyst support. *Carbon*, **2017**, 121, 518-526	10.4	22
134	Hierarchical CoP3/NiMoO4 heterostructures on Ni foam as an efficient bifunctional electrocatalyst for overall water splitting. *Ceramics International*, **2019**, 45, 17128-17136	5.1	22
133	Effect of pH value on H2Ti2O5/TiO2 composite nanotubes as Pt catalyst support for methanol oxidation. *Journal of Power Sources*, **2014**, 272, 196-202	8.9	22
132	NiCo2O4 nanosheets and nanocones as additive-free anodes for high-performance Li-ion batteries. *Ceramics International*, **2017**, 43, 13710-13716	5.1	22
131	An efficient antimony doped tin oxide and carbon nanotubes hybrid support of Pd catalyst for formic acid electrooxidation. *International Journal of Hydrogen Energy*, **2014**, 39, 5678-5688	6.7	22
130	Electro-oxidation of dimethyl ether on platinum nanocubes with preferential {100} surfaces. *Electrochemistry Communications*, **2009**, 11, 1596-1598	5.1	22
129	Cobalt and Nitrogen Codoped Carbon Nanosheets Templated from NaCl as Efficient Oxygen Reduction Electrocatalysts. *Chemistry - an Asian Journal*, **2018**, 13, 3057-3062	4.5	21
128	Electrochemical impedance studies of electrooxidation of methanol and formic acid on Pt/C catalyst in acid medium. *Journal of Power Sources*, **2009**, 190, 336-340	8.9	21
127	The influence of acidic and alkaline precursors on PtRu/C catalyst performance for a direct methanol fuel cell. *Journal of Power Sources*, **2007**, 163, 688-694	8.9	21
126	One-pot synthesis of a three-dimensional graphene aerogel supported Pt catalyst for methanol electrooxidation. *RSC Advances*, **2015**, 5, 98160-98165	3.7	20
125	Facile strategy of NCA cation mixing regulation and its effect on electrochemical performance. *RSC Advances*, **2016**, 6, 108558-108565	3.7	20

124	Optimizing the Structural Evolution of Li-Rich Oxide Cathode Materials via Microwave-Assisted Pre-Activation. *ACS Applied Energy Materials*, **2018**, 1, 4158-4168	6.1	20
123	High stability and high activity Pd/ITO-CNTs electrocatalyst for direct formic acid fuel cell. *Electrochimica Acta*, **2014**, 137, 676-684	6.7	20
122	Boosting ion/el□transfer of Ti3C2 via interlayered and interfacial co-modification for high-performance Li-ion capacitors. *Chemical Engineering Journal*, **2021**, 404, 127116	14.7	20
121	Recent advances in cathode materials for Li□ battery: structure and performance. *Rare Metals*, **2017**, 36, 365-380	5.5	19
120	Ce0.8Sn0.2O2□ composite as a co-catalytic support for Pt catalysts toward methanol electrooxidation. *Journal of Power Sources*, **2014**, 265, 335-344	8.9	19
119	Synthesis and characterization of carbon riveted Pt/MWCNTs@TiO2□iC catalyst with high durability for PEMFCs application. *Applied Catalysis B: Environmental*, **2012**, 123-124, 214-220	21.8	19
118	Effect of Mg content on discharge behavior of Al-0.05Ga-0.05Sn-0.05Pb-xMg alloy anode for aluminum-air battery. *Journal of Solid State Electrochemistry*, **2019**, 23, 53-62	2.6	19
117	Functional Differentiation of Three Pores for Effective Sulfur Confinement in Li-S Battery. *Small*, **2018**, 14, e1703279	11	18
116	Electrochemical properties of high-voltage LiNi0.5Mn1.5O4 synthesized by a solid-state method. *RSC Advances*, **2014**, 4, 26022-26029	3.7	17
115	CeO 2 nanowires stretch-embedded in reduced graphite oxide nanocomposite support for Pt nanoparticles as potential electrocatalyst for methanol oxidation reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 20549-20559	6.7	17
114	Spinel (Ni0.4Co0.4Mn0.2)3O4 nanoparticles as conversion-type anodes for Li- and Na-ion batteries. *Ceramics International*, **2019**, 45, 7552-7559	5.1	16
113	Flower-like nitrogen-oxygen-doped carbon encapsulating sulfur composite synthesized via in-situ oxidation approach. *Chemical Engineering Journal*, **2018**, 345, 271-279	14.7	16
112	Graphitic-C3N4 quantum dots modified carbon nanotubes as a novel support material for a low Pt loading fuel cell catalyst. *RSC Advances*, **2016**, 6, 32290-32297	3.7	16
111	A novel synthetic route to cathode materials for Li□ batteries: from organic sulfides to sulfur/nitrogenous carbon composites. *Journal of Materials Chemistry A*, **2017**, 5, 16796-16802	13	16
110	Boosted electrochemical performance of LiNi0.5Mn1.5O4 via synergistic modification of Li+-Conductive Li2ZrO3 coating layer and superficial Zr-doping. *Electrochimica Acta*, **2020**, 343, 136105	6.7	16
109	Cu(PO): Novel Anion Convertor for Aqueous Dual-Ion Battery. *Nano-Micro Letters*, **2021**, 13, 41	19.5	16
108	Improving Electrochemical Performance of High-Voltage Spinel LiNi0.5Mn1.5O4 Cathode by Cobalt Surface Modification. *ACS Applied Energy Materials*, **2019**, 2, 2982-2989	6.1	15
107	A rapid synthesis of TiO2 nanotubes in an ethylene glycol system by anodization as a Pt-based catalyst support for methanol electrooxidation. *RSC Advances*, **2015**, 5, 35518-35523	3.7	15

106	Porous Na3V2(PO4)3 prepared by freeze-drying method as high performance cathode for sodium-ion batteries. *Ceramics International*, **2018**, 44, 9880-9886	5.1	15
105	3D NiCo2S4 nanorod arrays as electrode materials for electrochemical energy storage application. *Ceramics International*, **2016**, 42, 18173-18180	5.1	15
104	Improved electrochemical performance of LiNi0.4Ti0.1Mn1.5O4 as cathode of lithium ion battery by carbon-coating. *RSC Advances*, **2014**, 4, 57041-57047	3.7	15
103	Titanium compounds TiC and TiO2 supported Pd catalysts for formic acid electrooxidation. *International Journal of Hydrogen Energy*, **2012**, 37, 15096-15104	6.7	15
102	Na3V2(PO4)3 with specially designed carbon framework as high performance cathode for sodium-ion batteries. *Ceramics International*, **2019**, 45, 4637-4644	5.1	15
101	Intercalation-pseudocapacitance hybrid anode for high rate and energy lithium-ion capacitors. *Journal of Energy Chemistry*, **2021**, 55, 459-467	12	15
100	A highly proton-/vanadium-selective perfluorosulfonic acid membrane for vanadium redox flow batteries. *New Journal of Chemistry*, **2019**, 43, 11374-11381	3.6	14
99	One-step synthesis of 3D N-doped graphene supported metal oxide for high performance Li-S battery. *Ceramics International*, **2018**, 44, 13419-13425	5.1	14
98	WO3/C supported Pd catalysts for formic acid electro-oxidation activity. *International Journal of Hydrogen Energy*, **2018**, 43, 407-416	6.7	14
97	Effect of core/shell structured TiO2@C nanowire support on the Pt catalytic performance for methanol electrooxidation. *Catalysis Science and Technology*, **2016**, 6, 3767-3775	5.5	14
96	Biology-inspired polydopamine-assisted strategy for high-performance supercapacitor. *Chemical Engineering Journal*, **2019**, 375, 122056	14.7	14
95	Pseudocapacitive Crystalline MnCoO and Amorphous MnCoS Core/Shell Heterostructure with Graphene for High-Performance K-Ion Hybrid Capacitors. *ACS Applied Materials & Interfaces*, **2020**, 12, 54773-54781	9.5	14
94	High proton conductivity polybenzimidazole proton exchange membrane based on phosphotungstic acid-anchored nano-Kevlar fibers. *Journal of Materials Science*, **2019**, 54, 1640-1653	4.3	14
93	Hierarchical Hydrogen Titanate Nanowire Arrays/Anatase TiO2 Heterostructures as Binder-Free Anodes for Li-ion Capacitors. *Electrochimica Acta*, **2016**, 222, 27-35	6.7	13
92	Electrochemical investigation of silicon/carbon composite as anode material for lithium ion batteries. *Journal of Materials Science*, **2008**, 43, 3149-3152	4.3	13
91	Durability studies of unsupported Pt cathodic catalyst with working time of direct methanol fuel cells. *Journal of Power Sources*, **2008**, 185, 1066-1072	8.9	13
90	Enhancing metal–support interaction by in situ ion-exchanging strategy for high performance Pt catalysts in hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 16582-16589	13	13
89	Ultra-High Ion Selectivity of a Modified Nafion Composite Membrane for Vanadium Redox Flow Battery by Incorporation of Phosphotungstic Acid Coupled UiO-66-NH2. *ChemistrySelect*, **2019**, 4, 4633-4641	1.8	12

88	Controlling the surface roughness of chain-like Pd nanowires by pH values as excellent catalysts for oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 6551-6559	6.7	12
87	A simple method for industrialization to enhance the tap density of LiNi0.5Co0.2Mn0.3O2 cathode material for high-specific volumetric energy lithium-ion batteries. *RSC Advances*, **2016**, 6, 65941-65949	3.7	12
86	Investigation of a novel MEA for direct dimethyl ether fuel cell. *Electrochemistry Communications*, **2008**, 10, 238-241	5.1	12
85	Facile synthesis of flower-like dual-metal (Co/Zn) MOF-derived 3D porous Co@Co-NPC as reversible oxygen electrocatalyst for rechargeable zinc-air batteries. *Ionics*, **2020**, 26, 1913-1922	2.7	12
84	A Gas-Phase Migration Strategy to Synthesize Atomically Dispersed Mn-N-C Catalysts for Zn-Air Batteries.. *Small Methods*, **2021**, 5, e2100024	12.8	12
83	Surface modification by fluorine doping to increase discharge capacity of Li1.2Ni0.2Mn0.6O2 cathode materials. *Ionics*, **2020**, 26, 151-161	2.7	12
82	Soft X-ray Ptychography Chemical Imaging of Degradation in a Composite Surface-Reconstructed Li-Rich Cathode. *ACS Nano*, **2021**, 15, 1475-1485	16.7	12
81	Nitrogen-doped graphene aerogel with an open structure assisted by in-situ hydrothermal restructuring of ZIF-8 as excellent Pt catalyst support for methanol electro-oxidation. *International Journal of Hydrogen Energy*, **2018**, 43, 21899-21907	6.7	12
80	Simple Water Treatment Strategy To Optimize the Li2MnO3 Activation of Lithium-Rich Cathode Materials. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 12825-12837	8.3	11
79	Electrocatalytic oxidation of dimethyl ether on ruthenium modified platinum single crystal electrodes. *Catalysis Communications*, **2009**, 10, 971-974	3.2	11
78	Hybrid of molybdenum trioxide and carbon as high performance platinum catalyst support for methanol electrooxidation. *International Journal of Hydrogen Energy*, **2017**, 42, 2045-2053	6.7	10
77	Synthesis and performance of hollow LiNi0.5Mn1.5O4 with different particle sizes for lithium-ion batteries. *RSC Advances*, **2015**, 5, 100730-100735	3.7	10
76	Nitrogen-doped carbon with mesoporous structure as high surface area catalyst support for methanol oxidation reaction. *RSC Advances*, **2016**, 6, 39310-39316	3.7	10
75	Improving rate performance of high-voltage spinel cathode by changing structural evolution from two-phase to solid-solution reactions. *Electrochimica Acta*, **2018**, 281, 24-30	6.7	10
74	A simple one-step molten salt method for synthesis of micron-sized single primary particle LiNi0.8Co0.1Mn0.1O2 cathode material for lithium-ion batteries. *Ionics*, **2020**, 26, 1635-1643	2.7	9
73	Synthesis and electrochemical properties of LiNi0.5Mn1.5O4 as a 5 V cathode material for lithium ion batteries. *RSC Advances*, **2012**, 2, 11988	3.7	9
72	Stable PtNiPb/WC Catalyst for Direct Methanol Fuel Cells. *Electrochemical and Solid-State Letters*, **2009**, 12, A13		9
71	The journey of lithium ions in the lattice of PNb9O25. *Materials Chemistry Frontiers*, **2020**, 4, 631-637	7.8	9

70	UV-curable-based plastic crystal polymer electrolyte for high-performance all-solid-state Li-ion batteries. *Ionics*, **2019**, 25, 1607-1615	2.7	9
69	Design of synergistic-coated layer of La2O3/Al2O3 in LiNi0.5Mn1.5O4 cathode for enhanced cycling stability and rate capability. *Ionics*, **2019**, 25, 2459-2468	2.7	9
68	Crystallization evoked surface defects in layered titanates for high-performance sodium storage. *Energy Storage Materials*, **2020**, 25, 537-546	19.4	9
67	How to appropriately assess the oxygen reduction reaction activity of platinum group metal catalysts with rotating disk electrode. *IScience*, **2021**, 24, 103024	6.1	9
66	Investigation on Spinel LiNi0.5Mn1.5O4 Synthesized by MnCO3 Prepared under Different Conditions for Lithium-Ion Batteries. *ChemistrySelect*, **2017**, 2, 4325-4331	1.8	8
65	Supramolecular Assembly Templated Nitrogen-Doped Hollow Carbon Tubes as Highly Active and Durable Catalytic Support for Methanol Electrooxidation. *ACS Applied Energy Materials*, **2018**, 1, 4096-4105	6.1	8
64	Clustered-Microcapsule-Shaped Microporous Carbon-Coated Sulfur Composite Synthesized via in Situ Oxidation. *ACS Applied Materials & Interfaces*, **2017**, 9, 44512-44518	9.5	8
63	Influence of different buffer solutions on the performance of anodic Pt-Ru/C nanoparticle electrocatalysts for a direct methanol fuel cell. *Journal of Power Sources*, **2007**, 166, 317-323	8.9	8
62	Advanced Support Materials and Interactions for Atomically Dispersed Noble-Metal Catalysts: From Support Effects to Design Strategies. *Advanced Energy Materials*, **2022**, 12, 2102556	21.8	8
61	Enhanced Potassium Storage Performance for K-Te Batteries Electrode Design and Electrolyte Salt Chemistry. *ACS Applied Materials & Interfaces*, **2021**, 13, 16345-16354	9.5	8
60	Three-dimensional TiO2@C nano-network with high porosity as a highly efficient Pt-based catalyst support for methanol electrooxidation. *RSC Advances*, **2016**, 6, 79254-79262	3.7	8
59	Fabrication of C@MoxTi1−xO2−δ nanocrystalline with functionalized interface as efficient and robust PtRu catalyst support for methanol electrooxidation. *Journal of Energy Chemistry*, **2020**, 40, 7-14	12	8
58	Recent advances in high-loading catalysts for low-temperature fuel cells: From nanoparticle to single atom. *SusMat*, **2021**, 1, 569-592		8
57	Investigation on the durability of direct dimethyl ether fuel cell. Part I: Anode degradation. *Journal of Power Sources*, **2012**, 198, 170-175	8.9	7
56	Sensing performances of ZnO nanostructures grown under different oxygen pressures to hydrogen. *Materials Research Bulletin*, **2012**, 47, 4420-4426	5.1	7
55	Effect of N-doped carbon quantum dots/multiwall-carbon nanotube composite support on Pt catalytic performance for methanol electrooxidation. *RSC Advances*, **2016**, 6, 67096-67101	3.7	7
54	Investigation on performances of Li1.2Co0.4Mn0.4O2 prepared by self-combustion reaction as stable cathode for lithium-ion batteries. *Ceramics International*, **2016**, 42, 14818-14825	5.1	7
53	Hollow-sphere iron oxides exhibiting enhanced cycling performance as lithium-ion battery anodes. *Chemical Communications*, **2019**, 55, 11638-11641	5.8	6

52	3D MnCo□O□ Nanorod Arrays on Ni Foam as Binder-Free Anodes for Li-Ion Batteries. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 1965-1969	1.3	6
51	A membrane electrode assembly with high fuel coulombic efficiency for passive direct borohydride fuel cells. *Electrochemistry Communications*, **2010**, 12, 1070-1073	5.1	6
50	Revealing the Thermodynamics and Kinetics of In-Plane Disordered Li2MnO3 Structure in Li-Rich Cathodes. *ACS Energy Letters*,3836-3843	20.1	6
49	Nitrogen doped carbon coated Mo modified TiO2 nanowires (NC@MTNWs-FI) with functionalized interfacial as advanced PtRu catalyst support for methanol electrooxidation. *Electrochimica Acta*, **2020**, 331, 135410	6.7	6
48	Engineering sulphur vacancy in VS2 as high performing zinc-ion batteries with high cyclic stability. *New Journal of Chemistry*, **2020**, 44, 15951-15957	3.6	6
47	Study on Prelithiation Technology of Hard Carbon Electrode Using Stable Metal Lithium Powder. *Journal of Electrochemical Energy Conversion and Storage*, **2019**, 16,	2	6
46	The effect of hydrothermal treatment time and level of carbon coating on the performance of PtRu/C catalysts in a direct methanol fuel cell. *RSC Advances*, **2014**, 4, 63922-63932	3.7	5
45	The effects of sodium fluoride as the electrolyte additive on the electrochemical performances of magnesium□lithium□.5zinc electrode in sodium chloride solution. *RSC Advances*, **2014**, 4, 63182-63188	3.7	5
44	Effects of carbon sources and carbonized carbon contents during carbon riveting process on the stability of Pt/C catalyst. *International Journal of Hydrogen Energy*, **2012**, 37, 10276-10285	6.7	5
43	Effects of Small Molecule Interlayer Engineering in Vanadium Oxide for Zinc Ion Battery. *ChemistrySelect*, **2020**, 5, 8951-8958	1.8	5
42	Investigation on LiNi0.5Mn1.5O4 cathode material based on the precursor of nickel-manganese compound for lithium-ion battery. *Ionics*, **2017**, 23, 35-41	2.7	4
41	Electrochemical properties of citric acid-assisted combustion synthesis of Li4Ti5O12 adopting Cr by the solid-state reaction process. *Ionics*, **2015**, 21, 1545-1551	2.7	4
40	Vacuum vapor migration strategy for atom□anoparticle composite catalysts boosting bifunctional oxygen catalysis and rechargeable Zn□ir batteries. *Journal of Materials Chemistry A*, **2022**, 10, 3112-3121	13	4
39	Correlative imaging of ionic transport and electronic structure in nano LiFePO electrodes. *Chemical Communications*, **2020**, 56, 984-987	5.8	4
38	Enhancing Na-Ion Storage at Subzero Temperature via Interlayer Confinement of Sn. *ACS Nano*, **2020**, 14, 13765-13774	16.7	4
37	Materials Engineering toward Durable Electrocatalysts for Proton Exchange Membrane Fuel Cells. *Advanced Energy Materials*, **2022**, 12, 2102665	21.8	4
36	Interface Functionalized MoxTi1□O2□Composite via a Postgrowth Modification Approach as High Performance PtRu Catalyst Support for Methanol Electrooxidation. *ACS Applied Energy Materials*, **2019**, 2, 4882-4889	6.1	3
35	Study on LixNi0.5Mn1.5O4 (x = 0.8, 0.9, 1, 1.1, and 1.2) high-voltage cathode for lithium-ion batteries. *Ionics*, **2018**, 24, 3317-3323	2.7	3

34	Core-shell structure LiNi1/3Mn1/3Co1/3O2@ ultrathin □MnO2 nanoflakes cathode material with high electrochemical performance for lithium-ion batteries. *Ionics*, **2019**, 25, 5249-5258	2.7	3
33	Highly Durable Direct Methanol Fuel Cell with Double-Layered Catalyst Cathode. *Journal of Nanomaterials*, **2015**, 2015, 1-8	3.2	3
32	The influence of anode diffusion layer on the performance of direct dimethyl ether fuel cell. *International Journal of Energy Research*, **2012**, 36, 886-890	4.5	3
31	Suppressed phase separation in spinel LiNi0.5Mn1.5O4 cathode via interstitial sites modulation. *Nano Energy*, **2022**, 91, 106636	17.1	3
30	Hierarchical Mn1.5Co1.5O4 microspheres constructed from one-dimensional nanorods as high-performance anode material for lithium-ion battery. *Ionics*, **2017**, 23, 1067-1074	2.7	2
29	Ultrathin Graphitic Carbon Coated Molybdenum Phosphide as Noble-Metal-Free Electrocatalyst for Hydrogen Evolution. *ChemistrySelect*, **2019**, 4, 846-852	1.8	2
28	A Collaboration of Surface Protection and Bulk Doping for High-performance Li-rich Cathode Materials. *ChemistrySelect*, **2019**, 4, 6256-6264	1.8	2
27	Compositing SrLi2Ti6O14 with chemical deposited silver for enhancing lithium ion storage. *Ceramics International*, **2019**, 45, 6885-6890	5.1	2
26	Carbon-Coated and Interfacial-Functionalized Mixed-Phase Mo Ti O Nanotubes as Highly Active and Durable PtRu Catalyst Support for Methanol Electrooxidation. *Chemistry - an Asian Journal*, **2019**, 14, 1549-1556	4.5	2
25	The effect of sodium stannate as the electrolyte additive on the electrochemical performance of the Mg□Li□Y electrode in NaCl solution. *RSC Advances*, **2014**, 4, 18074-18079	3.7	2
24	The electrochemical behaviors of the Mg-7.5Li-3.5Al and Mg-7.5Li-3.5Al-1Y electrodes in sodium chloride solution. *Ionics*, **2015**, 21, 429-435	2.7	2
23	Influence of hot-pressing temperature on physical and electrochemical performance of catalyst coated membranes for direct methanol fuel cells. *Journal of Applied Electrochemistry*, **2009**, 39, 859-866	2.6	2
22	Dehydration-triggered electronic structure modulation enables high-performance quasi-solid-state Li-ion capacitors. *Chemical Engineering Journal*, **2020**, 392, 123795	14.7	2
21	High-performance ternary metal oxide anodes for lithium storage. *Ceramics International*, **2020**, 46, 28914-28921	5.1	2
20	Effect of polytetrafluoroethylene (PTFE) in current collecting layer on the performance of zinc-air battery. *Progress in Natural Science: Materials International*, **2020**, 30, 861-867	3.6	2
19	Simple co-precipitation synthesis of high-voltage spinel cathodes with different Ni/Mn ratios for lithium-ion batteries. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	2
18	Absence of a Relationship between Surface Conductivity and Electrochemical Rates: Redox-Active Monolayers on Si(211), Si(111), and Si(110). *Journal of Physical Chemistry C*, **2021**, 125, 18197-18203	3.8	2
17	Preparation of BiFeO3 and its photoelectric performance as photoanode of DSSC. *Ceramics International*, **2021**, 47, 27565-27570	5.1	2

16	Enhanced VRLA deep cycling performance via lattice modification using Bi doping. *Ionics*, **2020**, 26, 3989-3995	2.7	1
15	Coupling fine Pt nanoparticles and Co-N moiety as a synergistic bi-active site catalyst for oxygen reduction reaction in acid media.. *Journal of Colloid and Interface Science*, **2022**, 613, 276-284	9.3	1
14	3D Nano-heterostructure of ZnMnO@Graphene-Carbon Microtubes for High-Performance Li-Ion Capacitors. *ACS Applied Materials & Interfaces*, **2021**,	9.5	1
13	Achieving fast and durable alkali-ion storage by designing gradient interface with low charge transfer barrier. *Nano Energy*, **2021**, 85, 106022	17.1	1
12	Understanding Li roles in chemical reversibility of O2-type Li-rich layered cathode materials. *Journal of Energy Chemistry*, **2021**, 66, 666-666	12	1
11	Trigger Na+-solvent co-intercalation to achieve high-performance sodium-ion batteries at subzero temperature. *Chemical Engineering Journal*, **2021**, 430, 132750	14.7	1
10	MnO2 depositing on the surface of hollow porous carbon microspheres for supercapacitor application. *Ceramics International*, **2022**, 48, 10533-10538	5.1	1
9	Effect of UV light polymerization time on the properties of plastic crystal composite polyacrylate polymer electrolyte for all solid-state lithium-ion batteries. *Journal of Applied Polymer Science*, **2022** , 139, 52001	2.9	1
8	Interface crystal domain regulation via TiO2 surface modification enhancing stability of layered LiNi0.5Co0.2Mn0.3O2 for lithium-ion batteries. *Ionics*, **2021**, 27, 1871-1880	2.7	0
7	High-stability MnCoNi ternary metal oxide microspheres as conversion-type anodes for sodium-ion batteries. *Ceramics International*, **2021**, 47, 17540-17549	5.1	0
6	The Nature of the Ultrahigh Initial Coulombic Efficiency of Ni2Fe(CN)6 in Aqueous Ammonium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 9594-9599	6.1	0
5	Silica and nitrogen-doped carbon co-coated lithium manganese iron phosphate microspheres as cathode materials for lithium batteries. *Canadian Journal of Chemistry*,1-7	0.9	0
4	Galvanic replacement mediated synthesis of Pd-Cu Alloy Nanospheres as Electrocatalysts for Formic Acid Oxidation. *Materials Today Sustainability*, **2022**, 100140	5	0
3	WO3-x Nanorod Arrays Based Sensors with High Sensitivity and Quick Response for Detecting Pollutants. *Materials Research Society Symposia Proceedings*, **2008**, 1080, 1		
2	Preparation and influence of performance of anodic catalysts for direct methanol fuel cell. *Frontiers of Chemical Engineering in China*, **2007**, 1, 20-25		
1	In situ functionally utilize surface residual lithium of Co-free Li-rich layered oxides. *Ionics*, **2021**, 27, 3837-3846	2.7	