

Pei Kang Shen

List of Publications by Citations

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256
papers

12,791
citations

59
h-index

101
g-index

267
ext. papers

14,935
ext. citations

10.4
avg, IF

7.19
L-index

#	Paper	IF	Citations
256	Palladium-based electrocatalysts for alcohol oxidation in half cells and in direct alcohol fuel cells. <i>Chemical Reviews</i> , 2009 , 109, 4183-206	68.1	1300
255	Simultaneous formation of ultrahigh surface area and three-dimensional hierarchical porous graphene-like networks for fast and highly stable supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 2474-80 ²⁴	24	594
254	Porous MoO ₂ Nanosheets as Non-noble Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , 2016 , 28, 3785-90	24	584
253	N-Doped Porous Molybdenum Carbide Nanobelts as Efficient Catalysts for Hydrogen Evolution Reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 533-540	21.8	281
252	Mo- and Fe-Modified Ni(OH) ₂ /NiOOH Nanosheets as Highly Active and Stable Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 2359-2363	13.1	195
251	Topotactic Conversion Route to Mesoporous Quasi-Single-Crystalline Co ₃ O ₄ Nanobelts with Optimizable Electrochemical Performance. <i>Advanced Functional Materials</i> , 2010 , 20, 617-623	15.6	191
250	Hierarchical Mesoporous Zinc-Nickel-Cobalt Ternary Oxide Nanowire Arrays on Nickel Foam as High-Performance Electrodes for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26512-21	9.5	189
249	Novel Pt/CeO ₂ /C catalysts for electrooxidation of alcohols in alkaline media. <i>Chemical Communications</i> , 2004 , 2238-9	5.8	160
248	Bimetallic carbide nanocomposite enhanced Pt catalyst with high activity and stability for the oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1954-7	16.4	150
247	Synergistic effect of CeO ₂ modified Pt/C catalysts on the alcohols oxidation. <i>Electrochimica Acta</i> , 2005 , 51, 1031-1035	6.7	145
246	A Highly Order-Structured Membrane Electrode Assembly with Vertically Aligned Carbon Nanotubes for Ultra-Low Pt Loading PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 1205-1214	21.8	136
245	Mechanistic study of ethanol oxidation on PdNiO/C electrocatalyst. <i>Electrochimica Acta</i> , 2006 , 52, 1087-1091	10.9	136
244	Concave Platinum-Copper Octopod Nanoframes Bounded with Multiple High-Index Facets for Efficient Electrooxidation Catalysis. <i>ACS Nano</i> , 2017 , 11, 11946-11953	16.7	134
243	Sulfur impregnated N, P co-doped hierarchical porous carbon as cathode for high performance Li-S batteries. <i>Journal of Power Sources</i> , 2017 , 341, 165-174	8.9	125
242	Monodisperse and self-assembled Pt-Cu nanoparticles as an efficient electrocatalyst for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1579-1585	13	125
241	Direct growth of urchin-like ZnCo ₂ O ₄ microspheres assembled from nanowires on nickel foam as high-performance electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 169, 202-209	6.7	120
240	Tungsten carbide promoted PdFe as alcohol-tolerant electrocatalysts for oxygen reduction reactions. <i>Energy and Environmental Science</i> , 2011 , 4, 558-563	35.4	119

239	One-step synthesis of Ni ₃ S ₂ nanoparticles wrapped with in situ generated nitrogen-self-doped graphene sheets with highly improved electrochemical properties in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3142	13	116
238	Nanoflower-like metallic conductive MoO ₂ as a high-performance non-precious metal electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20080-20085	13	113
237	First-Principles Considerations on Catalytic Activity of Pd toward Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15639-15642	3.8	109
236	Enhanced activity for ethanol electrooxidation on PtMgO/C catalysts. <i>Electrochemistry Communications</i> , 2005 , 7, 1305-1308	5.1	108
235	Tungsten carbide as supports for Pt electrocatalysts with improved CO tolerance in methanol oxidation. <i>Journal of Power Sources</i> , 2011 , 196, 6125-6130	8.9	107
234	Accurately measuring the hydrogen generation rate for hydrolysis of sodium borohydride on multiwalled carbon nanotubes/CoB catalysts. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7110-7115	6.7	105
233	Carbon-Encapsulated WO Hybrids as Efficient Catalysts for Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1705979	24	104
232	Self-assembled FeS ₂ cubes anchored on reduced graphene oxide as an anode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2090-2096	13	102
231	Improved performance of Pd electrocatalyst supported on ultrahigh surface area hollow carbon spheres for direct alcohol fuel cells. <i>Journal of Power Sources</i> , 2008 , 177, 61-66	8.9	99
230	Cross-double dumbbell-like PtNi nanostructures with enhanced catalytic performance toward the reactions of oxygen reduction and methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 277-283	21.8	98
229	MoC/graphite composite as a Pt electrocatalyst support for highly active methanol oxidation and oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4014	13	97
228	One-step synthesis of boron and nitrogen-dual-self-doped graphene sheets as non-metal catalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14700	13	97
227	Porous SnS nanorods/carbon hybrid materials as highly stable and high capacity anode for Li-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4093-8	9.5	97
226	Three-dimensional porous MoNi ₄ networks constructed by nanosheets as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2508-2513	13	95
225	The beneficial effect of the addition of tungsten carbides to Pt catalysts on the oxygen electroreduction. <i>Chemical Communications</i> , 2005 , 4408-10	5.8	94
224	Carbon-Encapsulated Electrocatalysts for the Hydrogen Evolution Reaction. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 105-127	29.3	90
223	One-pot synthesized boron-doped RhFe alloy with enhanced catalytic performance for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 58-64	21.8	89
222	Self-sustainable production of hydrogen, chemicals, and energy from renewable alcohols by electrocatalysis. <i>ChemSusChem</i> , 2010 , 3, 851-5	8.3	88

221	An extremely stable MnO ₂ anode incorporated with 3D porous graphene-like networks for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3163	13	82
220	Hydrogen evolution reaction in acidic media on single-crystalline titanium nitride nanowires as an efficient non-noble metal electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3673-3677	13	80
219	Nanosized tungsten carbide synthesized by a novel route at low temperature for high performance electrocatalysis. <i>Scientific Reports</i> , 2013 , 3, 1646	4.9	80
218	Stability analysis of oxide (CeO ₂ , NiO, Co ₃ O ₄ and Mn ₃ O ₄) effect on Pd/C for methanol oxidation in alkaline medium. <i>Electrochimica Acta</i> , 2013 , 90, 108-111	6.7	78
217	Small-sized and contacting Pt-WC nanostructures on graphene as highly efficient anode catalysts for direct methanol fuel cells. <i>Chemistry - A European Journal</i> , 2012 , 18, 7443-51	4.8	77
216	One-step synthesis of mesoporous Al ₂ O ₃ /In ₂ O ₃ nanofibres with remarkable gas-sensing performance to NO _x at room temperature. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 949-956	13	76
215	Electronic modulation of cobalt phosphide nanosheet arrays via copper doping for highly efficient neutral-pH overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118555	21.8	74
214	Nitrogen-Doped Carbon-Encapsulated SnO ₂ @Sn Nanoparticles Uniformly Grafted on Three-Dimensional Graphene-like Networks as Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 197-207	9.5	73
213	Atomic-Scale Preparation of Octopod Nanoframes with High-Index Facets as Highly Active and Stable Catalysts. <i>Advanced Materials</i> , 2017 , 29,	24	73
212	Hydrothermal growth of SnS ₂ hollow spheres and their electrochemical properties. <i>CrystEngComm</i> , 2012 , 14, 4279	3.3	73
211	Heteroatoms dual doped porous graphene nanosheets as efficient bifunctional metal-free electrocatalysts for overall water-splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7784-7790	13	71
210	Low temperature formation of porous graphitized carbon for electrocatalysis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2133-2139		71
209	Spinel NiCo ₂ O ₄ 3-D nanoflowers supported on graphene nanosheets as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16120-16131	6.7	70
208	Ultrasmall metal oxide nanoparticles anchored on three-dimensional hierarchical porous graphene-like networks as anode for high-performance lithium ion batteries. <i>Nano Energy</i> , 2015 , 13, 563-572	17.1	70
207	The origin of the high performance of tungsten carbides/carbon nanotubes supported Pt catalysts for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2009 , 11, 290-293	5.1	69
206	Pulse-microwave assisted polyol synthesis of highly dispersed high loading Pt/C electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2007 , 170, 46-49	8.9	69
205	Effect of nitrogen-containing functionalization on the electrocatalytic activity of PtRu nanoparticles supported on carbon nanotubes for direct methanol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 140-149	21.8	68
204	Ultra-high surface area graphitic Fe-N-C nanospheres with single-atom iron sites as highly efficient non-precious metal bifunctional catalysts towards oxygen redox reactions. <i>Journal of Catalysis</i> , 2018 , 368, 279-290	7.3	67

203	Nitrogen-self-doped graphene-based non-precious metal catalyst with superior performance to Pt/C catalyst toward oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3231	13	66
202	Vertex-Type Engineering of Pt-Cu-Rh Heterogeneous Nanocages for Highly Efficient Ethanol Electrooxidation. <i>Advanced Materials</i> , 2018 , 30, e1804074	24	66
201	Sodium borohydride hydrolysis on highly efficient CoB/Pd catalysts. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4048-4054	6.7	65
200	Preparation and performance of nanosized tungsten carbides for electrocatalysis. <i>Electrochimica Acta</i> , 2010 , 55, 7969-7974	6.7	63
199	Facile synthesis of FeS ₂ nanocrystals and their magnetic and electrochemical properties. <i>RSC Advances</i> , 2013 , 3, 6132	3.7	62
198	Oxygen reduction electrocatalysis enhanced by nanosized cubic vanadium carbide. <i>Electrochemistry Communications</i> , 2011 , 13, 763-765	5.1	60
197	Nonprecious metal's graphene-supported electrocatalysts for hydrogen evolution reaction: Fundamentals to applications 2020 , 2, 99-121		59
196	High-Quality and Deeply Excavated Pt ₃ Co Nanocubes as Efficient Catalysts for Liquid Fuel Electrooxidation. <i>Chemistry of Materials</i> , 2017 , 29, 9613-9617	9.6	58
195	Improved kinetics of methanol oxidation on Pt/hollow carbon sphere catalysts. <i>Electrochimica Acta</i> , 2008 , 53, 8341-8345	6.7	57
194	Bifunctional porous non-precious metal WO ₂ hexahedral networks as an electrocatalyst for full water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9655-9660	13	56
193	Well-defined PtNiCo core-shell nanodendrites with enhanced catalytic performance for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18015-18021	13	56
192	Nanostructured tungsten carbide/carbon composites synthesized by a microwave heating method as supports of platinum catalysts for methanol oxidation. <i>Journal of Power Sources</i> , 2012 , 202, 56-62	8.9	56
191	Performance of highly dispersed Pt/C catalysts for low temperature fuel cells. <i>Electrochimica Acta</i> , 2004 , 49, 3107-3111	6.7	56
190	Nanochain-structured mesoporous tungsten carbide and its superior electrocatalysis. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6149		55
189	Templated and Catalytic Fabrication of N-Doped Hierarchical Porous Carbon-Carbon Nanotube Hybrids as Host for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33876-33886	9.5	54
188	Recent advances in graphene-based platinum and palladium electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22189-22217	13	52
187	Controllable synthesis of graphene supported MnO ₂ nanowires via self-assembly for enhanced water oxidation in both alkaline and neutral solutions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 123-129 ¹³		52
186	A strategy for mass production of self-assembled nitrogen-doped graphene as catalytic materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1401-1406	13	51

185	One-step synthesis of Ni ₃ S ₂ nanowires at low temperature as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7136-7142	6.7	50
184	Facile synthesis of bimetallic Pt-Pd symmetry-broken concave nanocubes and their enhanced activity toward oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 49-56	21.8	50
183	Self-assembled superstructure of carbon-wrapped, single-crystalline Cu ₃ P porous nanosheets: One-step synthesis and enhanced Li-ion battery anode performance. <i>Energy Storage Materials</i> , 2018 , 15, 75-81	19.4	50
182	Highly Efficient Multifunctional Co-N-C Electrocatalysts with Synergistic Effects of Co-N Moieties and Co Metallic Nanoparticles Encapsulated in a N-Doped Carbon Matrix for Water-Splitting and Oxygen Redox Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39809-39819	9.5	50
181	A Co ₃ W ₃ C promoted Pd catalyst exhibiting competitive performance over Pt/C catalysts towards the oxygen reduction reaction. <i>Chemical Communications</i> , 2014 , 50, 566-8	5.8	49
180	Fluorine-Doped and Partially Oxidized Tantalum Carbides as Nonprecious Metal Electrocatalysts for Methanol Oxidation Reaction in Acidic Media. <i>Advanced Materials</i> , 2016 , 28, 2163-9	24	49
179	Electrodeposited palladium nanostructure as novel anode for direct formic acid fuel cell. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11352		48
178	Ranunculus flower-like Ni(OH) ₂ @Mn ₂ O ₃ as a high specific capacitance cathode material for alkaline supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7591-7595	13	48
177	Heterostructured Co ₃ O ₄ /PEI@CNTs composite: fabrication, characterization and CO gas sensors at room temperature. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4558-4565	13	47
176	Novel Bi-Doped Amorphous SnO Nanoshells for Efficient Electrochemical CO Reduction into Formate at Low Overpotentials. <i>Advanced Materials</i> , 2020 , 32, e2002822	24	47
175	Ultrathin PtCu hexapod nanocrystals with enhanced catalytic performance for electro-oxidation reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13425-13430	13	47
174	Chestnut-like copper cobalt phosphide catalyst for all-pH hydrogen evolution reaction and alkaline water electrolysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14271-14279	13	46
173	A bimetallic carbide Fe ₂ MoC promoted Pd electrocatalyst with performance superior to Pt/C towards the oxygen reduction reaction in acidic media. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 636-641	21.8	46
172	A cost effective, highly porous, manganese oxide/carbon supercapacitor material with high rate capability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5390-5394	13	45
171	Ternary PtRhFe Nanoscale Alloys as Highly Efficient Catalysts with Enhanced Activity and Excellent CO-Poisoning Tolerance for Ethanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9584-9591	9.5	44
170	Bimetallic Ni-Co phosphide nanosheets self-supported on nickel foam as high-performance electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 317, 191-198	6.7	44
169	Three-dimensional, hetero-structured, Cu ₃ P@C nanosheets with excellent cycling stability as Na-ion battery anode material. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16999-17007	13	44
168	One-pot synthesis of a nitrogen and phosphorus-dual-doped carbon nanotube array as a highly effective electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15448-15453	13	44

167	Highly stable Pt-Co nanodendrite in nanoframe with Pt skin structured catalyst for oxygen reduction electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119460	21.8	44
166	Solid Synthesis of Ultrathin Palladium and Its Alloys Nanosheets on RGO with High Catalytic Activity for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2018 , 8, 910-919	13.1	44
165	Three-dimensional graphene sheets with NiO nanobelt outgrowths for enhanced capacity and long term high rate cycling Li-ion battery anode material. <i>Journal of Power Sources</i> , 2018 , 379, 362-370	8.9	43
164	Metal-free mesoporous carbon with higher contents of active N and S codoping by template method for superior ORR efficiency to Pt/C. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3705-3715	6.7	43
163	Sulfur-infiltrated three-dimensional graphene-like material with hierarchical pores for highly stable lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4528-4533	13	43
162	Worm-like S-doped RhNi alloys as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117737	21.8	42
161	Significance of wall number on the carbon nanotube support-promoted electrocatalytic activity of Pt NPs towards methanol/formic acid oxidation reactions in direct alcohol fuel cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1961-1971	13	42
160	One-step growth of nitrogen-decorated iron-nickel sulfide nanosheets for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5592-5597	13	42
159	Pt loaded on truncated hexagonal pyramid WC/graphene for oxygen reduction reaction. <i>Nano Energy</i> , 2014 , 8, 52-61	17.1	42
158	Preparation and characterization of Pt/functionalized graphene and its electrocatalysis for methanol oxidation. <i>Electrochimica Acta</i> , 2013 , 111, 275-283	6.7	42
157	Bifunctional catalysts for overall water splitting: CoNi oxyhydroxide nanosheets electrodeposited on titanium sheets. <i>Electrochimica Acta</i> , 2019 , 301, 449-457	6.7	41
156	Molecular-level design of Fe-N-C catalysts derived from Fe-dual pyridine coordination complexes for highly efficient oxygen reduction. <i>Journal of Catalysis</i> , 2019 , 372, 245-257	7.3	41
155	Recent Progress in Graphene-Based Nanostructured Electrocatalysts for Overall Water Splitting. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 370-394	29.3	41
154	Carbonized porous anodic alumina as electrocatalyst support for alcohol oxidation. <i>Electrochemistry Communications</i> , 2006 , 8, 1764-1768	5.1	41
153	Asymmetric 3d Electronic Structure for Enhanced Oxygen Evolution Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23131-23139	9.5	40
152	Palladium thorn clusters as catalysts for electrooxidation of formic acid. <i>Energy and Environmental Science</i> , 2011 , 4, 1522	35.4	40
151	Hollow carbon hemispheres supported palladium electrocatalyst at improved performance for alcohol oxidation. <i>Journal of Power Sources</i> , 2010 , 195, 7146-7151	8.9	40
150	A cobalt phosphide on carbon decorated Pt catalyst with excellent electrocatalytic performance for direct methanol oxidation. <i>Journal of Power Sources</i> , 2015 , 275, 279-283	8.9	39

149	Simultaneous formation of trimetallic Pt-Ni-Cu excavated rhombic dodecahedrons with enhanced catalytic performance for the methanol oxidation reaction. <i>Nano Research</i> , 2018 , 11, 4786-4795	10	39
148	High-Performance Asymmetric Supercapacitor Based on Hierarchical NiMn ₂ O ₄ @CoS Core/Shell Microspheres and Stereotaxically Constricted Graphene. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16933-16940	8.3	39
147	NiCo ₂ S ₄ nanocores in-situ encapsulated in graphene sheets as anode materials for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 364, 167-176	14.7	38
146	Pd nanoparticles supported on ultrahigh surface area honeycomb-like carbon for alcohol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3263-3269	6.7	37
145	In situ carbon nanotube clusters grown from three-dimensional porous graphene networks as efficient sulfur hosts for high-rate ultra-stable Li/S batteries. <i>Nano Research</i> , 2018 , 11, 1731-1743	10	36
144	A facile route to carbide-based electrocatalytic nanocomposites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5072		36
143	Carbon-Nanotubes-Supported Pd Nanoparticles for Alcohol Oxidations in Fuel Cells: Effect of Number of Nanotube Walls on Activity. <i>ChemSusChem</i> , 2015 , 8, 2956-66	8.3	35
142	Rapid formation of nanoscale tungsten carbide on graphitized carbon for electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8154-8160	6.7	35
141	Nitrogen-self-doped graphene as a high capacity anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14586	13	35
140	Ultrahigh energy density asymmetric electrochemical capacitors based on flower-like ZnO/Co ₃ O ₄ nanobundle arrays and stereotaxically constricted graphene. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1273-1280	13	34
139	Electrocatalytic production of ammonia: Biomimetic electrode/electrolyte design for efficient electrocatalytic nitrogen fixation under ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2020 , 271, 118919	21.8	34
138	Ultrahigh capacity and superior stability of three-dimensional porous graphene networks containing in situ grown carbon nanotube clusters as an anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7595-7602	13	33
137	Excavated and dendritic Pt-Co nanocubes as efficient ethylene glycol and glycerol oxidation electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117951	21.8	33
136	Pt supported on highly graphitized lace-like carbon for methanol electrooxidation. <i>Carbon</i> , 2008 , 46, 531-536	10.4	33
135	Remarkable enhancement in the electrochemical activity of maricite NaFePO ₄ on high-surface-area carbon cloth for sodium-ion batteries. <i>Carbon</i> , 2019 , 146, 78-87	10.4	32
134	Vanadium carbide and graphite promoted Pd electrocatalyst for ethanol oxidation in alkaline media. <i>Journal of Power Sources</i> , 2013 , 243, 336-342	8.9	32
133	Nitrogen and fluorine dual-doped porous graphene-nanosheets as efficient metal-free electrocatalysts for hydrogen-evolution in acidic media. <i>Catalysis Science and Technology</i> , 2017 , 7, 2228-2235	5.5	31
132	Facile synthesis of boron and nitrogen-dual-doped graphene sheets anchored platinum nanoparticles for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016 , 194, 276-282	6.7	31

131	FeN stabilized FeN@Pt core-shell nanostructures for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4462-4469	13	31
130	P-doped CNTs encapsulated nickel hybrids with flower-like structure as efficient catalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 298, 142-149	6.7	31
129	Direct anchoring of platinum nanoparticles on nitrogen and phosphorus-dual-doped carbon nanotube arrays for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2015 , 158, 374-382	6.7	30
128	Highly stable electrocatalysts supported on nitrogen-self-doped three-dimensional graphene-like networks with hierarchical porous structures. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1492-1497	13	29
127	Crumpled nitrogen- and boron-dual-self-doped graphene sheets as an extraordinary active anode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14155-14162	13	28
126	Electricity Generation from Capillary-Driven Ionic Solution Flow in a Three-Dimensional Graphene Membrane. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4922-4929	9.5	28
125	Preparation of high loading Pt supported on carbon by on-site reduction. <i>Journal of Materials Science</i> , 2004 , 39, 1507-1509	4.3	28
124	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. <i>Materials Today</i> , 2021 , 46, 212-233	21.8	28
123	N, S Codoped Carbon Matrix-Encapsulated Co ₉ S ₈ Nanoparticles as a Highly Efficient and Durable Bifunctional Oxygen Redox Electrocatalyst for Rechargeable Zn/Air Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101249	21.8	27
122	Single-step pyrolytic preparation of Mo ₂ C/graphitic carbon nanocomposite as catalyst carrier for the direct liquid-feed fuel cells. <i>RSC Advances</i> , 2013 , 3, 4771	3.7	26
121	Effect of the templates on the synthesis of hollow carbon materials as electrocatalyst supports for direct alcohol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4728-4736	6.7	26
120	Synthesis of Pd on porous hollow carbon spheres as an electrocatalyst for alcohol electrooxidation. <i>RSC Advances</i> , 2011 , 1, 191	3.7	26
119	One-Pot Synthesis of Pt/Pd Bimetallic Nanodendrites with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8419-8428	8.3	25
118	Direct synthesis of pure single-crystalline Magn η phase Ti ₈ O ₁₅ nanowires as conductive carbon-free materials for electrocatalysis. <i>Nanoscale</i> , 2015 , 7, 2856-61	7.7	25
117	A novel boron and nitrogen co-doped three-dimensional porous graphene sheet framework as high performance Li-ion battery anode material. <i>Inorganic Chemistry Communication</i> , 2018 , 96, 159-164	3.1	25
116	Magn η phase Ti ₈ O ₁₅ nanowires as conductive carbon-free energy materials to enhance the electrochemical activity of palladium nanoparticles for direct ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14416-14423	13	25
115	Ion-exchange-assisted synthesis of Pt-VC nanoparticles loaded on graphitized carbon: a high-performance nanocomposite electrocatalyst for oxygen-reduction reactions. <i>Chemistry - A European Journal</i> , 2012 , 18, 8490-7	4.8	25
114	Molybdenum-modified and vertex-reinforced quaternary hexapod nano-skeletons as efficient electrocatalysts for methanol oxidation and oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117974	21.8	24

113	Bimetallic PtAg alloyed nanoparticles and 3-D mesoporous graphene nanosheet hybrid architectures for advanced oxygen reduction reaction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23158-23169	13	23
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