Pei Kang Shen

List of Publications by Year
in descending order

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265	16,978	13099	20961
papers	citations	68	115
		h-index	g-index

267	267	267	16142
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Palladium-Based Electrocatalysts for Alcohol Oxidation in Half Cells and in Direct Alcohol Fuel Cells. Chemical Reviews, 2009, 109, 4183-4206.	47.7	1,486
2	Porous MoO₂ Nanosheets as Nonâ€noble Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Materials, 2016, 28, 3785-3790.	21.0	729
3	Simultaneous Formation of Ultrahigh Surface Area and Threeâ€Dimensional Hierarchical Porous Grapheneâ€Like Networks for Fast and Highly Stable Supercapacitors. Advanced Materials, 2013, 25, 2474-2480.	21.0	668
4	N-Doped Porous Molybdenum Carbide Nanobelts as Efficient Catalysts for Hydrogen Evolution Reaction. Applied Catalysis B: Environmental, 2018, 224, 533-540.	20.2	358
5	Mo- and Fe-Modified Ni(OH)₂/NiOOH Nanosheets as Highly Active and Stable Electrocatalysts for Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 2359-2363.	11.2	290
6	Hierarchical Mesoporous Zincâ€“Nickelâ€“Cobalt Ternary Oxide Nanowire Arrays on Nickel Foam as High-Performance Electrodes for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 26512-26521.	8.0	234
7	Topotactic Conversion Route to Mesoporous Quasiâ€Singleâ€Crystalline Co₃O₄ Nanobelts with Optimizable Electrochemical Performance. Advanced Functional Materials, 2010, 20, 617-623.	14.9	202
8	Novel Pt/CeO2/C catalysts for electrooxidation of alcohols in alkaline media. Chemical Communications, 2004, , 2238.	4.1	173
9	Electronic modulation of cobalt phosphide nanosheet arrays via copper doping for highly efficient neutral-pH overall water splitting. Applied Catalysis B: Environmental, 2020, 265, 118555.	20.2	172
10	A Highly Orderâ€Structured Membrane Electrode Assembly with Vertically Aligned Carbon Nanotubes for Ultraâ€Low Pt Loading PEM Fuel Cells. Advanced Energy Materials, 2011, 1, 1205-1214.	19.5	168
11	Concave Platinumâ€“Copper Octopod Nanoframes Bounded with Multiple High-Index Facets for Efficient Electrooxidation Catalysis. ACS Nano, 2017, 11, 11946-11953.	14.6	167
12	Bimetallic Carbide Nanocomposite Enhanced Pt Catalyst with High Activity and Stability for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2012, 134, 1954-1957.	13.7	166
13	Synergistic effect of CeO2 modified Pt/C catalysts on the alcohols oxidation. Electrochimica Acta, 2005, 51, 1031-1035.	5.2	159
14	Sulfur impregnated N, P co-doped hierarchical porous carbon as cathode for high performance Li-S batteries. Journal of Power Sources, 2017, 341, 165-174.	7.8	157
15	Direct growth of urchin-like ZnCo2O4 microspheres assembled from nanowires on nickel foam as high-performance electrodes for supercapacitors. Electrochimica Acta, 2015, 169, 202-209.	5.2	149
16	Mechanistic study of ethanol oxidation on Pdâ€“NiO/C electrocatalyst. Electrochimica Acta, 2006, 52, 1087-1091.	5.2	148
17	Monodisperse and self-assembled Pt-Cu nanoparticles as an efficient electrocatalyst for the methanol oxidation reaction. Journal of Materials Chemistry A, 2016, 4, 1579-1585.	10.3	148
18	Cross-double dumbbell-like Ptâ€“Ni nanostructures with enhanced catalytic performance toward the reactions of oxygen reduction and methanol oxidation. Applied Catalysis B: Environmental, 2019, 246, 277-283.	20.2	145

#	Article	IF	Citations
19	Carbonâ€Encapsulated WO_x Hybrids as Efficient Catalysts for Hydrogen Evolution. Advanced Materials, 2018, 30, e1705979.	21.0	140
20	Nanoflower-like metallic conductive MoO₂ as a high-performance non-precious metal electrocatalyst for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 20080-20085.	10.3	139
21	Nonprecious metal's grapheneâ€supported electrocatalysts for hydrogen evolution reaction: Fundamentals to applications. , 2020, 2, 99-121.		137
22	Carbon-Encapsulated Electrocatalysts for the Hydrogen Evolution Reaction. Electrochemical Energy Reviews, 2019, 2, 105-127.	25.5	136
23	One-step synthesis of Ni3S2 nanoparticles wrapped with in situ generated nitrogen-self-doped graphene sheets with highly improved electrochemical properties in Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 3142.	10.3	130
24	Self-assembled FeS₂ cubes anchored on reduced graphene oxide as an anode material for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 2090-2096.	10.3	122
25	Three-dimensional porous MoNi₄ networks constructed by nanosheets as bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 2508-2513.	10.3	122
26	Tungsten carbide promoted Pdâ€“Fe as alcohol-tolerant electrocatalysts for oxygen reduction reactions. Energy and Environmental Science, 2011, 4, 558-563.	30.8	121
27	Enhanced activity for ethanol electrooxidation on Ptâ€“MgO/C catalysts. Electrochemistry Communications, 2005, 7, 1305-1308.	4.7	118
28	First-Principles Considerations on Catalytic Activity of Pd toward Ethanol Oxidation. Journal of Physical Chemistry C, 2009, 113, 15639-15642.	3.1	117
29	Accurately measuring the hydrogen generation rate for hydrolysis of sodium borohydride on multiwalled carbon nanotubes/Coâ€“B catalysts. International Journal of Hydrogen Energy, 2008, 33, 7110-7115.	7.1	116
30	Tungsten carbide as supports for Pt electrocatalysts with improved CO tolerance in methanol oxidation. Journal of Power Sources, 2011, 196, 6125-6130.	7.8	115
31	One-pot synthesized boron-doped RhFe alloy with enhanced catalytic performance for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2018, 230, 58-64.	20.2	112
32	Porous SnS Nanorods/Carbon Hybrid Materials as Highly Stable and High Capacity Anode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4093-4098.	8.0	111
33	Selfâ€Sustainable Production of Hydrogen, Chemicals, and Energy from Renewable Alcohols by Electrocatalysis. ChemSusChem, 2010, 3, 851-855.	6.8	110
34	Hydrogen evolution reaction in acidic media on single-crystalline titanium nitride nanowires as an efficient non-noble metal electrocatalyst. Journal of Materials Chemistry A, 2016, 4, 3673-3677.	10.3	109
35	Improved performance of Pd electrocatalyst supported on ultrahigh surface area hollow carbon spheres for direct alcohol fuel cells. Journal of Power Sources, 2008, 177, 61-66.	7.8	107
36	One-step synthesis of boron and nitrogen-dual-self-doped graphene sheets as non-metal catalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2013, 1, 14700.	10.3	107

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37	MoCâ€“graphite composite as a Pt electrocatalyst support for highly active methanol oxidation and oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 4014.	10.3	106
38	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. Journal of Catalysis, 2018, 368, 279-290.	6.2	105
39	Highly stable Pt-Co nanodendrite in nanoframe with Pt skin structured catalyst for oxygen reduction electrocatalysis. Applied Catalysis B: Environmental, 2021, 281, 119460.	20.2	105
40	Novel Biâ€Doped Amorphous SnO_x Nanoshells for Efficient Electrochemical CO₂ Reduction into Formate at Low Overpotentials. Advanced Materials, 2020, 32, e2002822.	21.0	104
41	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. Materials Today, 2021, 46, 212-233.	14.2	104
42	N, S Codoped Carbon Matrixâ€Encapsulated Co₉S₈ Nanoparticles as a Highly Efficient and Durable Bifunctional Oxygen Redox Electrocatalyst for Rechargeable Znâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2101249.	19.5	102
43	Recent advances in graphene-based platinum and palladium electrocatalysts for the methanol oxidation reaction. Journal of Materials Chemistry A, 2019, 7, 22189-22217.	10.3	100
44	Spinel NiCo2O4 3-D nanoflowers supported on graphene nanosheets as efficient electrocatalyst for oxygen evolution reaction. International Journal of Hydrogen Energy, 2019, 44, 16120-16131.	7.1	99
45	Vertexâ€Type Engineering of Ptâ€“Cuâ€“Rh Heterogeneous Nanocages for Highly Efficient Ethanol Electrooxidation. Advanced Materials, 2018, 30, e1804074.	21.0	98
46	The beneficial effect of the addition of tungsten carbides to Pt catalysts on the oxygen electroreduction. Chemical Communications, 2005, , 4408.	4.1	97
47	Heteroatoms dual doped porous graphene nanosheets as efficient bifunctional metal-free electrocatalysts for overall water-splitting. Journal of Materials Chemistry A, 2017, 5, 7784-7790.	10.3	95
48	Nanosized tungsten carbide synthesized by a novel route at low temperature for high performance electrocatalysis. Scientific Reports, 2013, 3, 1646.	3.3	93
49	An extremely stable MnO2 anode incorporated with 3D porous graphene-like networks for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 3163.	10.3	91
50	Recent Progress in Graphene-Based Nanostructured Electrocatalysts for Overall Water Splitting. Electrochemical Energy Reviews, 2020, 3, 370-394.	25.5	90
51	Stability analysis of oxide (CeO2, NiO, Co3O4 and Mn3O4) effect on Pd/C for methanol oxidation in alkaline medium. Electrochimica Acta, 2013, 90, 108-111.	5.2	89
52	Atomicâ€Scale Preparation of Octopod Nanoframes with Highâ€Index Facets as Highly Active and Stable Catalysts. Advanced Materials, 2017, 29, .	21.0	89
53	Gram-Scale production of Cu3P-Cu2O Janus nanoparticles into nitrogen and phosphorous doped porous carbon framework as bifunctional electrocatalysts for overall water splitting. Chemical Engineering Journal, 2022, 427, 130946.	12.7	88
54	One-step synthesis of mesoporous Al₂O₃â€“In₂O₃nanofibres with remarkable gas-sensing performance to NO_xat room temperature. Journal of Materials Chemistry A, 2014, 2, 949-956.	10.3	84

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55	Nitrogen-Doped Carbon-Encapsulated SnO₂@Sn Nanoparticles Uniformly Grafted on Three-Dimensional Graphene-like Networks as Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 197-207.	8.0	84
56	Hydrothermal growth of SnS2 hollow spheres and their electrochemical properties. CrystEngComm, 2012, 14, 4279.	2.6	83
57	Smallâ€Sized and Contacting Ptâ€“WC Nanostructures on Graphene as Highly Efficient Anode Catalysts for Direct Methanol Fuel Cells. Chemistry - A European Journal, 2012, 18, 7443-7451.	3.3	83
58	Highly Efficient Multifunctional Coâ€“Nâ€“C Electrocatalysts with Synergistic Effects of Coâ€“N Moieties and Co Metallic Nanoparticles Encapsulated in a N-Doped Carbon Matrix for Water-Splitting and Oxygen Redox Reactions. ACS Applied Materials & Interfaces, 2019, 11, 39809-39819.	8.0	80
59	Ultrasmall metal oxide nanoparticles anchored on three-dimensional hierarchical porous gaphene-like networks as anode for high-performance lithium ion batteries. Nano Energy, 2015, 13, 563-572.	16.0	78
60	Boosting Electrocatalytic Activity of Single Atom Catalysts Supported on Nitrogenâ€Doped Carbon through N Coordination Environment Engineering. Small, 2022, 18, e2105329.	10.0	78
61	Pulse-microwave assisted polyol synthesis of highly dispersed high loading Pt/C electrocatalyst for oxygen reduction reaction. Journal of Power Sources, 2007, 170, 46-49.	7.8	77
62	Low temperature formation of porous graphitized carbon for electrocatalysis. Journal of Materials Chemistry, 2012, 22, 2133-2139.	6.7	77
63	Facile synthesis of FeS2 nanocrystals and their magnetic and electrochemical properties. RSC Advances, 2013, 3, 6132.	3.6	76
64	Effect of nitrogen-containing functionalization on the electrocatalytic activity of PtRu nanoparticles supported on carbon nanotubes for direct methanol fuel cells. Applied Catalysis B: Environmental, 2014, 158-159, 140-149.	20.2	76
65	Self-assembled superstructure of carbon-wrapped, single-crystalline Cu3P porous nanosheets: One-step synthesis and enhanced Li-ion battery anode performance. Energy Storage Materials, 2018, 15, 75-81.	18.0	75
66	Nitrogen-self-doped graphene-based non-precious metal catalyst with superior performance to Pt/C catalyst toward oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 3231.	10.3	74
67	The origin of the high performance of tungsten carbides/carbon nanotubes supported Pt catalysts for methanol electrooxidation. Electrochemistry Communications, 2009, 11, 290-293.	4.7	73
68	Sodium borohydride hydrolysis on highly efficient Coâ€“B/Pd catalysts. International Journal of Hydrogen Energy, 2008, 33, 4048-4054.	7.1	72
69	Bifunctional porous non-precious metal WO₂hexahedral networks as an electrocatalyst for full water splitting. Journal of Materials Chemistry A, 2017, 5, 9655-9660.	10.3	72
70	Three-dimensional, hetero-structured, Cu₃P@C nanosheets with excellent cycling stability as Na-ion battery anode material. Journal of Materials Chemistry A, 2019, 7, 16999-17007.	10.3	71
71	Well-defined PtNiCo coreâ€“shell nanodendrites with enhanced catalytic performance for methanol oxidation. Journal of Materials Chemistry A, 2016, 4, 18015-18021.	10.3	70
72	Bifunctional catalysts for overall water splitting: CoNi oxyhydroxide nanosheets electrodeposited on titanium sheets. Electrochimica Acta, 2019, 301, 449-457.	5.2	70

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73	Bimetallic Niâ€'Co phosphide nanosheets self-supported on nickel foam as high-performance electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2019, 317, 191-198.	5.2	69
74	NiCo2S4 nanocores in-situ encapsulated in graphene sheets as anode materials for lithium-ion batteries. Chemical Engineering Journal, 2019, 364, 167-176.	12.7	68
75	High-Quality and Deeply Excavated Pt₃Co Nanocubes as Efficient Catalysts for Liquid Fuel Electrooxidation. Chemistry of Materials, 2017, 29, 9613-9617.	6.7	67
76	Chestnut-like copper cobalt phosphide catalyst for all-pH hydrogen evolution reaction and alkaline water electrolysis. Journal of Materials Chemistry A, 2019, 7, 14271-14279.	10.3	67
77	Oxygen reduction electrocatalysis enhanced by nanosized cubic vanadium carbide. Electrochemistry Communications, 2011, 13, 763-765.	4.7	66
78	Templated and Catalytic Fabrication of N-Doped Hierarchical Porous Carbonâ€"Carbon Nanotube Hybrids as Host for Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 33876-33886.	8.0	66
79	Preparation and performance of nanosized tungsten carbides for electrocatalysis. Electrochimica Acta, 2010, 55, 7969-7974.	5.2	65
80	High-Performance Asymmetric Supercapacitor Based on Hierarchical NiMn₂O₄@CoS Coreâ€"Shell Microspheres and Stereotaxically Constricted Graphene. ACS Sustainable Chemistry and Engineering, 2018, 6, 16933-16940.	6.7	65
81	MoP-Mo2C quantum dot heterostructures uniformly hosted on a heteroatom-doped 3D porous carbon sheet network as an efficient bifunctional electrocatalyst for overall water splitting. Chemical Engineering Journal, 2022, 431, 133719.	12.7	64
82	Fluorineâ€Đoped and Partially Oxidized Tantalum Carbides as Nonprecious Metal Electrocatalysts for Methanol Oxidation Reaction in Acidic Media. Advanced Materials, 2016, 28, 2163-2169.	21.0	63
83	Performance of highly dispersed Pt/C catalysts for low temperature fuel cells. Electrochimica Acta, 2004, 49, 3107-3111.	5.2	62
84	Facile synthesis of bimetallic Pt-Pd symmetry-broken concave nanocubes and their enhanced activity toward oxygen reduction reaction. Applied Catalysis B: Environmental, 2019, 251, 49-56.	20.2	62
85	One-step synthesis of Ni3S2 nanowires at low temperature as efficient electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 7136-7142.	7.1	61
86	Worm-like S-doped RhNi alloys as highly efficient electrocatalysts for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 255, 117737.	20.2	61
87	Improved kinetics of methanol oxidation on Pt/hollow carbon sphere catalysts. Electrochimica Acta, 2008, 53, 8341-8345.	5.2	60
88	A Co₃W₃C promoted Pd catalyst exhibiting competitive performance over Pt/C catalysts towards the oxygen reduction reaction. Chemical Communications, 2014, 50, 566-568.	4.1	60
89	Remarkable enhancement in the electrochemical activity of maricite NaFePO4 on high-surface-area carbon cloth for sodium-ion batteries. Carbon, 2019, 146, 78-87.	10.3	60
90	Nanostructured tungsten carbide/carbon composites synthesized by a microwave heating method as supports of platinum catalysts for methanol oxidation. Journal of Power Sources, 2012, 202, 56-62.	7.8	59

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91	Controllable synthesis of graphene supported MnO₂nanowires via self-assembly for enhanced water oxidation in both alkaline and neutral solutions. Journal of Materials Chemistry A, 2014, 2, 123-129.	10.3	59
92	Fe and Co dual-doped Ni3S4 nanosheet with enriched high-valence Ni sites for efficient oxygen evolution reaction. Chemical Engineering Journal, 2022, 427, 130742.	12.7	59
93	Nanochain-structured mesoporous tungsten carbide and its superior electrocatalysis. Journal of Materials Chemistry, 2009, 19, 6149.	6.7	58
94	Simultaneous formation of trimetallic Pt-Ni-Cu excavated rhombic dodecahedrons with enhanced catalytic performance for the methanol oxidation reaction. Nano Research, 2018, 11, 4786-4795.	10.4	58
95	Recent development of Au arched Pt nanomaterials as promising electrocatalysts for methanol oxidation reaction. Nano Research, 2022, 15, 18-37.	10.4	58
96	A strategy for mass production of self-assembled nitrogen-doped graphene as catalytic materials. Journal of Materials Chemistry A, 2013, 1, 1401-1406.	10.3	57
97	Ultrathin PtCu hexapod nanocrystals with enhanced catalytic performance for electro-oxidation reactions. Journal of Materials Chemistry A, 2016, 4, 13425-13430.	10.3	57
98	Ternary Pt₉RhFe_x Nanoscale Alloys as Highly Efficient Catalysts with Enhanced Activity and Excellent CO-Poisoning Tolerance for Ethanol Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 9584-9591.	8.0	57
99	Asymmetric 3d Electronic Structure for Enhanced Oxygen Evolution Catalysis. ACS Applied Materials & Interfaces, 2018, 10, 23131-23139.	8.0	57
100	Electricity Generation from Capillary-Driven Ionic Solution Flow in a Three-Dimensional Graphene Membrane. ACS Applied Materials & Interfaces, 2019, 11, 4922-4929.	8.0	57
101	A bimetallic carbide Fe2MoC promoted Pd electrocatalyst with performance superior to Pt/C towards the oxygen reduction reaction in acidic media. Applied Catalysis B: Environmental, 2015, 165, 636-641.	20.2	56
102	A cost effective, highly porous, manganese oxide/carbon supercapacitor material with high rate capability. Journal of Materials Chemistry A, 2016, 4, 5390-5394.	10.3	56
103	Solid Synthesis of Ultrathin Palladium and Its Alloysâ€™ Nanosheets on RGO with High Catalytic Activity for Oxygen Reduction Reaction. ACS Catalysis, 2018, 8, 910-919.	11.2	56
104	Molecular-level design of Fe-N-C catalysts derived from Fe-dual pyridine coordination complexes for highly efficient oxygen reduction. Journal of Catalysis, 2019, 372, 245-257.	6.2	56
105	Graphene Nanosphere as Advanced Electrode Material to Promote High Performance Symmetrical Supercapacitor. Small, 2021, 17, e2007915.	10.0	56
106	Ranunculus flower-like Ni(OH)₂@Mn₂O₃ as a high specific capacitance cathode material for alkaline supercapacitors. Journal of Materials Chemistry A, 2016, 4, 7591-7595.	10.3	55
107	One-step growth of nitrogen-decorated ironâ€“nickel sulfide nanosheets for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 5592-5597.	10.3	55
108	Electrocatalytic production of ammonia: Biomimetic electrodeâ€“electrolyte design for efficient electrocatalytic nitrogen fixation under ambient conditions. Applied Catalysis B: Environmental, 2020, 271, 118919.	20.2	55

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109	One-pot synthesis of a nitrogen and phosphorus-dual-doped carbon nanotube array as a highly effective electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 15448-15453.	10.3	54
110	Three-dimensional graphene sheets with NiO nanobelt outgrowths for enhanced capacity and long term high rate cycling Li-ion battery anode material. Journal of Power Sources, 2018, 379, 362-370.	7.8	53
111	Metal-free mesoporous carbon with higher contents of active N and S codoping by template method for superior ORR efficiency to Pt/C. International Journal of Hydrogen Energy, 2018, 43, 3705-3715.	7.1	52
112	Electrodeposited palladium nanostructure as novel anode for direct formic acid fuel cell. Journal of Materials Chemistry, 2011, 21, 11352.	6.7	51
113	Sulfur-infiltrated three-dimensional graphene-like material with hierarchical pores for highly stable lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 4528-4533.	10.3	51
114	Heterostructured Co3O4/PEIâ€“CNTs composite: fabrication, characterization and CO gas sensors at room temperature. Journal of Materials Chemistry A, 2014, 2, 4558-4565.	10.3	49
115	Excavated and dendritic Pt-Co nanocubes as efficient ethylene glycol and glycerol oxidation electrocatalysts. Applied Catalysis B: Environmental, 2019, 258, 117951.	20.2	48
116	Hierarchically skeletal multi-layered Pt-Ni nanocrystals for highly efficient oxygen reduction and methanol oxidation reactions. Chinese Journal of Catalysis, 2021, 42, 648-657.	14.0	48
117	Pt loaded on truncated hexagonal pyramid WC/graphene for oxygen reduction reaction. Nano Energy, 2014, 8, 52-61.	16.0	47
118	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. Journal of Materials Chemistry A, 2015, 3, 1961-1971.	10.3	47
119	In situ carbon nanotube clusters grown from three-dimensional porous graphene networks as efficient sulfur hosts for high-rate ultra-stable Liâ€“S batteries. Nano Research, 2018, 11, 1731-1743.	10.4	45
120	Ultrahigh energy density asymmetric electrochemical capacitors based on flower-like ZnO/Co₃O₄nanobundle arrays and stereotaxically constricted graphene. Journal of Materials Chemistry A, 2019, 7, 1273-1280.	10.3	45
121	Palladium thorn clusters as catalysts for electrooxidation of formic acid. Energy and Environmental Science, 2011, 4, 1522.	30.8	44
122	A cobalt phosphide on carbon decorated Pt catalyst with excellent electrocatalytic performance for direct methanol oxidation. Journal of Power Sources, 2015, 275, 279-283.	7.8	44
123	Hollow carbon hemispheres supported palladium electrocatalyst at improved performance for alcohol oxidation. Journal of Power Sources, 2010, 195, 7146-7151.	7.8	43
124	Preparation and charaterization of Pt/functionalized graphene and its electrocatalysis for methanol oxidation. Electrochimica Acta, 2013, 111, 275-283.	5.2	43
125	Rational Design and Synthesis of Hierarchical Porous Mnâ€“Nâ€“C Nanoparticles with Atomically Dispersed MnN_x Moieties for Highly Efficient Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 9367-9376.	6.7	43
126	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. Journal of Materials Chemistry A, 2017, 5, 7595-7602.	10.3	42

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127	MnS@N,S Coâ€Doped Carbon Core/Shell Nanocubes: Sulfurâ€Bridged Bonds Enhanced Naâ€Storage Properties Revealed by In Situ Raman Spectroscopy and Transmission Electron Microscopy. Small, 2020, 16, e2003001.	10.0	42
128	Carbonized porous anodic alumina as electrocatalyst support for alcohol oxidation. Electrochemistry Communications, 2006, 8, 1764-1768.	4.7	41
129	Pt supported on highly graphitized lace-like carbon for methanol electrooxidation. Carbon, 2008, 46, 531-536.	10.3	41
130	Facile synthesis of boron and nitrogen-dual-doped graphene sheets anchored platinum nanoparticles for oxygen reduction reaction. Electrochimica Acta, 2016, 194, 276-282.	5.2	41
131	P-doped CNTs encapsulated nickel hybrids with flower-like structure as efficient catalysts for hydrogen evolution reaction. Electrochimica Acta, 2019, 298, 142-149.	5.2	41
132	Nitrogen-self-doped graphene as a high capacity anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 14586.	10.3	40
133	Direct anchoring of platinum nanoparticles on nitrogen and phosphorus-dual-doped carbon nanotube arrays for oxygen reduction reaction. Electrochimica Acta, 2015, 158, 374-382.	5.2	40
134	Molybdenum-modified and vertex-reinforced quaternary hexapod nano-skeletons as efficient electrocatalysts for methanol oxidation and oxygen reduction reaction. Applied Catalysis B: Environmental, 2019, 258, 117974.	20.2	40
135	Carbonâ€Nanotubesâ€Supported Pd Nanoparticles for Alcohol Oxidations in Fuel Cells: Effect of Number of Nanotube Walls on Activity. ChemSusChem, 2015, 8, 2956-2966.	6.8	39
136	Pd nanoparticles supported on ultrahigh surface area honeycomb-like carbon for alcohol electrooxidation. International Journal of Hydrogen Energy, 2010, 35, 3263-3269.	7.1	38
137	Rapid formation of nanoscale tungsten carbide on graphitized carbon for electrocatalysis. International Journal of Hydrogen Energy, 2012, 37, 8154-8160.	7.1	38
138	Shell-thickness-dependent Pd@PtNi coreâ€“shell nanosheets for efficient oxygen reduction reaction. Chemical Engineering Journal, 2022, 427, 131565.	12.7	38
139	A facile route to carbide-based electrocatalytic nanocomposites. Journal of Materials Chemistry, 2012, 22, 5072.	6.7	37
140	FeN stabilized FeN@Pt coreâ€“shell nanostructures for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 4462-4469.	10.3	37
141	Nitrogen and fluorine dual-doped porous graphene-nanosheets as efficient metal-free electrocatalysts for hydrogen-evolution in acidic media. Catalysis Science and Technology, 2017, 7, 2228-2235.	4.1	37
142	Rational Design of Na₄Fe₃(PO₄)₂(P₂O₇) Nanoparticles Embedded in Graphene: Toward Fast Sodium Storage Through the Pseudocapacitive Effect. ACS Applied Energy Materials, 2018, 1, 6268-6278.	5.1	37
143	One-Pot Synthesis of Ptâ€“Pd Bimetallic Nanodendrites with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 8419-8428.	6.7	37
144	Designing highly efficient 3D porous Ni-Fe sulfide nanosheets based catalyst for the overall water splitting through component regulation. Journal of Colloid and Interface Science, 2022, 616, 422-432.	9.4	37

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145	The controllable growth of PtCuRh rhombic dodecahedral nanoframes as efficient catalysts for alcohol electrochemical oxidation. Journal of Materials Chemistry A, 2019, 7, 18619-18625.	10.3	36
146	Amorphous metallic ultrathin nanostructures: A latent ultra-high-density atomic-level catalyst for electrochemical energy conversion. International Journal of Hydrogen Energy, 2022, 47, 26956-26977.	7.1	35
147	Highly stable electrocatalysts supported on nitrogen-self-doped three-dimensional graphene-like networks with hierarchical porous structures. Journal of Materials Chemistry A, 2015, 3, 1492-1497.	10.3	34
148	Bimetallic PtAg alloyed nanoparticles and 3-D mesoporous graphene nanosheet hybrid architectures for advanced oxygen reduction reaction electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 23158-23169.	10.3	34
149	Vanadium carbide and graphite promoted Pd electrocatalyst for ethanol oxidation in alkaline media. Journal of Power Sources, 2013, 243, 336-342.	7.8	33
150	Direct synthesis of pure single-crystalline MagnÃ©li phase Ti₈O₁₅ nanowires as conductive carbon-free materials for electrocatalysis. Nanoscale, 2015, 7, 2856-2861.	5.6	32
151	Crumpled nitrogen- and boron-dual-self-doped graphene sheets as an extraordinary active anode material for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 14155-14162.	10.3	32
152	Synthesis and characterization of activated 3D graphene via catalytic growth and chemical activation for electrochemical energy storage in supercapacitors. Electrochimica Acta, 2019, 324, 134878.	5.2	32
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154	Synthesis of Pd on porous hollow carbon spheres as an electrocatalyst for alcohol electrooxidation. RSC Advances, 2011, 1, 191.	3.6	30
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