

Jianhuang Zeng

List of Publications by Year in descending order

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65
papers

2,521
citations

236925

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197818

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docs citations

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times ranked

3606
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Hydrolysis of a Nickel–Ammonia Complex on Pt Nanoparticles for the Preparation of Highly Active and Stable PtNi/C Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7504-7512.	3.7	6
2	Robust and Efficient Pd–Cu Bimetallic Catalysts with Porous Structure for Formic Acid Oxidation and a Mechanistic Study of Electrochemical Dealloying. <i>Electrocatalysis</i> , 2021, 12, 117-126.	3.0	10
3	De-alloyed PtCu/C catalysts with enhanced electrocatalytic performance for the oxygen reduction reaction. <i>Nanoscale</i> , 2021, 13, 13896-13904.	5.6	27
4	Controlled synthesis of uniform cup-stacked carbon nanotubes for energy applications. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158912.	5.5	2
5	De-alloyed ternary electrocatalysts with high activity and stability for oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160221.	5.5	22
6	Mono-disperse PdO nanoparticles prepared via microwave-assisted thermo-hydrolyzation with unexpectedly high activity for formic acid oxidation. <i>Electrochimica Acta</i> , 2020, 329, 135166.	5.2	11
7	Facile Room-Temperature Synthesis of a Highly Active and Robust Single-Crystal Pt Multipod Catalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49510-49518.	8.0	17
8	Two-Dimensional Bimetallic Zn/Fe-Metal-Organic Framework (MOF)-Derived Porous Carbon Nanosheets with a High Density of Single/Paired Fe Atoms as High-Performance Oxygen Reduction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13878-13887.	8.0	100
9	Stable and active Pt colloid preparation by modified citrate reduction and a mechanism analysis of inorganic additives. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 74-82.	9.4	3
10	Enhancing membrane electrode assembly performance by improving the porous structure and hydrophobicity of the cathode catalyst layer. <i>Journal of Power Sources</i> , 2019, 443, 227284.	7.8	29
11	Surfactant-free room temperature synthesis of PdPt/C assisted by ultra-sonication as highly active and stable catalysts for formic acid oxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11655-11663.	7.1	17
12	Cu@Pt catalysts prepared by galvanic replacement of polyhedral copper nanoparticles for polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2019, 306, 167-174.	5.2	30
13	Highly effective and stable doped carbon catalyst with three-dimensional porous structure and well-covered Fe ₃ C nanoparticles prepared with C ₃ N ₄ and tannic acid as template/precursors. <i>Journal of Power Sources</i> , 2019, 417, 117-124.	7.8	19
14	Pt/graphene with intercalated carbon nanotube spacers introduced by electrostatic self-assembly for fuel cells. <i>Materials Chemistry and Physics</i> , 2019, 225, 371-378.	4.0	23
15	A Facile and Environmentally Friendly One-Pot Synthesis of Pt Surface-Enriched Pt-Pd(x)/C Catalyst for Oxygen Reduction. <i>Electrocatalysis</i> , 2018, 9, 495-504.	3.0	16
16	A high-performance supercapacitor electrode based on N-doped porous graphene. <i>Journal of Power Sources</i> , 2018, 387, 43-48.	7.8	231
17	Controlled synthesis of carbon nanofibers over electrolessly plated metal foam catalysts on polyurethane for fuel cell applications. <i>Journal of Materials Science</i> , 2018, 53, 479-491.	3.7	2
18	Preparation and characterization of bimetallic Pt ⁰ Ni-P/CNT catalysts via galvanic displacement reaction on electrolessly-plated Ni-P/CNT. <i>Green Energy and Environment</i> , 2018, 3, 360-367.	8.7	13

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19	Enhancement of Oxygen Reduction Performance of Biomass-Derived Carbon through Co-Doping with Early Transition Metal. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3148-J3156.	2.9	11
20	A high-performance composite ORR catalyst based on the synergy between binary transition metal nitride and nitrogen-doped reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5829-5837.	10.3	93
21	Randomly oriented Ni ₂ P/nanofiber/nanotube composite prepared by electrolessly plated nickel-phosphorus alloys for fuel cell applications. <i>Journal of Materials Science</i> , 2017, 52, 8432-8443.	3.7	12
22	In situ construction of Ir@Pt/C nanoparticles in the cathode layer of membrane electrode assemblies with ultra-low Pt loading and high Pt exposure. <i>Journal of Power Sources</i> , 2017, 355, 83-89.	7.8	45
23	High-Performance Core-Shell Catalyst with Nitride Nanoparticles as a Core: Well-Defined Titanium Copper Nitride Coated with an Atomic Pt Layer for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2017, 7, 3810-3817.	11.2	84
24	A Co-doped porous niobium nitride nanogrid as an effective oxygen reduction catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14278-14285.	10.3	51
25	Uniformly dispersed carbon-supported bimetallic ruthenium-platinum electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Science</i> , 2017, 52, 3457-3466.	3.7	16
26	Platinum Nanoparticles on Interconnected Ni ₃ P/Carbon Nanotube@Carbon Nanofiber Hybrid Supports with Enhanced Catalytic Activity for Fuel Cells. <i>ChemElectroChem</i> , 2017, 4, 109-114.	3.4	7
27	Highly stable and efficient platinum nanoparticles supported on TiO ₂ @Ru-C: investigations on the promoting effects of the interpenetrated TiO ₂ . <i>Electrochimica Acta</i> , 2016, 216, 8-15.	5.2	7
28	Limitations and Improvement Strategies for Early-Transition-Metal Nitrides as Competitive Catalysts toward the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2016, 6, 6165-6174.	11.2	130
29	A core-shell Pd ₁ Ru ₁ Ni ₂ @Pt/C catalyst with a ternary alloy core and Pt monolayer: enhanced activity and stability towards the oxygen reduction reaction by the addition of Ni. <i>Journal of Materials Chemistry A</i> , 2016, 4, 847-855.	10.3	40
30	Nitrogen self-doped carbon nanoparticles derived from spiral seaweeds for oxygen reduction reaction. <i>RSC Advances</i> , 2016, 6, 27535-27541.	3.6	21
31	Platinum nanoparticles on carbon-nanotube support prepared by room-temperature reduction with H ₂ in ethylene glycol/water mixed solvent as catalysts for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2016, 306, 448-453.	7.8	22
32	Highly stable and active Pt electrocatalysts on TiO ₂ -Co ₃ O ₄ -C composite support for polymer exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2015, 154, 266-272.	5.2	18
33	High-Performance, Ultralow Platinum Membrane Electrode Assembly Fabricated by In Situ Deposition of a Pt Shell Layer on Carbon-Supported Pd Nanoparticles in the Catalyst Layer Using a Facile Pulse Electrodeposition Approach. <i>ACS Catalysis</i> , 2015, 5, 4318-4324.	11.2	64
34	Synthesis and characterizations of palladium catalysts with high activity and stability for formic acid oxidation by hydrogen reduction in ethylene glycol at room temperature. <i>Journal of Power Sources</i> , 2015, 294, 556-561.	7.8	8
35	Binary transition metal nitrides with enhanced activity and durability for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16801-16809.	10.3	115
36	Highly active carbon supported palladium catalysts decorated by a trace amount of platinum by an in-situ galvanic displacement reaction for formic acid oxidation. <i>Journal of Power Sources</i> , 2015, 278, 332-339.	7.8	12

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37	Enhancing the cycling stability of a carbonate-based electrolyte for high-voltage lithium batteries by adding succinic anhydride. <i>Ionics</i> , 2015, 21, 2535-2542.	2.4	12
38	Heteroatom Doped Carbon Nanofibers Synthesized by Chemical Vapor Deposition as Platinum Electrocatalyst Supports for Polymer Electrolyte Membrane Fuel Cells. <i>Electrochimica Acta</i> , 2015, 182, 351-360.	5.2	42
39	Effect of thermal treatment on structural change of anode electrocatalysts for direct methanol fuel cells. <i>Particuology</i> , 2014, 15, 45-50.	3.6	6
40	Conversion of polystyrene foam to a high-performance doped carbon catalyst with ultrahigh surface area and hierarchical porous structures for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12240-12246.	10.3	52
41	Preparation and characterizations of platinum electrocatalysts supported on thermally treated CeO ₂ @C composite support for polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2014, 139, 308-314.	5.2	25
42	Preparation and characterization of carbon-supported PtOs electrocatalysts via polyol reduction method for methanol oxidation reaction. <i>Journal of Power Sources</i> , 2014, 268, 824-830.	7.8	15
43	Preparation and characterizations of highly dispersed carbon supported PdxPty/C catalysts by a modified citrate reduction method for formic acid electrooxidation. <i>Journal of Power Sources</i> , 2014, 254, 183-189.	7.8	24
44	Aqueous phase synthesis and characterizations of Pt nanoparticles by a modified citrate reduction method assisted by inorganic salt stabilization for PEMFCs. <i>Electrochimica Acta</i> , 2014, 134, 187-192.	5.2	16
45	Hybrid PdAg alloy-Au nanorods: Controlled growth, optical properties and electrochemical catalysis. <i>Nano Research</i> , 2013, 6, 571-580.	10.4	37
46	Highly ordered and surfactant-free PtxRuy bimetallic nanocomposites synthesized by electrostatic self assembly for methanol oxidation reaction. <i>Electrochimica Acta</i> , 2013, 112, 431-438.	5.2	12
47	Electrostatic interaction based hollow Pt and Ru assemblies toward methanol oxidation. <i>RSC Advances</i> , 2012, 2, 7479.	3.6	21
48	A simple eco-friendly solution phase reduction method for the synthesis of polyhedra platinum nanoparticles with high catalytic activity for methanol electrooxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 3170.	6.7	37
49	Binary oxide-doped Pt/RuO ₂ @SiO _x /C catalyst with high performance and self-humidification capability: The promotion of ruthenium oxide. <i>Journal of Power Sources</i> , 2012, 205, 201-206.	7.8	12
50	Pt@Ru/C catalysts synthesized by a two-stage polyol reduction process for methanol oxidation reaction. <i>Journal of Power Sources</i> , 2011, 196, 10570-10575.	7.8	20
51	Effects of Pt/C, Pd/C and PdPt/C anode catalysts on the performance and stability of air breathing direct formic acid fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8518-8524.	7.1	67
52	Preparation and characterization of core-shell structured catalysts using PtxPdy as active shell and nano-sized Ru as core for potential direct formic acid fuel cell application. <i>Electrochimica Acta</i> , 2011, 56, 2024-2030.	5.2	41
53	A mesoporous hollow silica sphere (MHSS): Synthesis through a facile emulsion approach and application of support for high performance Pd/MHSS catalyst for phenol hydrogenation. <i>Applied Surface Science</i> , 2011, 257, 4472-4477.	6.1	39
54	Platinum decorated Ru/C: Effects of decorated platinum on catalyst structure and performance for the methanol oxidation reaction. <i>Journal of Power Sources</i> , 2011, 196, 54-61.	7.8	24

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55	A 4-cell miniature direct formic acid fuel cell stack with independent fuel reservoir: Design and performance investigation. <i>Journal of Power Sources</i> , 2011, 196, 5913-5917.	7.8	21
56	Ultrasonic-assisted ac etching of aluminum foils for electrolytic capacitor electrodes with enhanced capacitance. <i>Materials Chemistry and Physics</i> , 2010, 123, 625-628.	4.0	12
57	Design, fabrication and performance evaluation of a miniature air breathing direct formic acid fuel cell based on printed circuit board technology. <i>Journal of Power Sources</i> , 2010, 195, 7332-7337.	7.8	41
58	Enhanced Pt utilization in electrocatalysts by covering of colloidal silica nanoparticles. <i>Journal of Power Sources</i> , 2008, 184, 344-347.	7.8	7
59	More active PtRu/C catalyst for methanol electrooxidation by reversal of mixing sequence in catalyst preparation. <i>Materials Chemistry and Physics</i> , 2007, 104, 336-341.	4.0	8
60	Method for preparing highly dispersed Pt catalysts on mesoporous carbon support. <i>Journal of Materials Science</i> , 2007, 42, 7191-7197.	3.7	22
61	Ruthenium-free, carbon-supported cobalt and tungsten containing binary & ternary Pt catalysts for the anodes of direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4389-4396.	7.1	72
62	Preparation of Carbon-Supported Core-Shell Au-Pt Nanoparticles for Methanol Oxidation Reaction: The Promotional Effect of the Au Core. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24606-24611.	2.6	267
63	A more active Pt/carbon DMFC catalyst by simple reversal of the mixing sequence in preparation. <i>Journal of Power Sources</i> , 2006, 159, 509-513.	7.8	26
64	Effects of preparation conditions on performance of carbon-supported nanosize Pt-Co catalysts for methanol electro-oxidation under acidic conditions. <i>Journal of Power Sources</i> , 2005, 140, 268-273.	7.8	122
65	Template synthesis of microporous carbon for direct methanol fuel cell application. <i>Carbon</i> , 2005, 43, 2366-2373.	10.3	87