

Dai Dang

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55
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3,295
ext. citations

10
avg, IF

5.2
L-index

#	Paper	IF	Citations
54	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. <i>Science</i> , 2019 , 366, 850-856	33.3	545
53	High-Performance Energy Storage and Conversion Materials Derived from a Single Metal-Organic Framework/Graphene Aerogel Composite. <i>Nano Letters</i> , 2017 , 17, 2788-2795	11.5	289
52	MOF-derived NiS nanorods on graphene as an electrode for high-energy-density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4003-4012	13	178
51	Controlled synthesis of three-phase Ni ₃ S ₂ /rGO nanoflake electrodes for hybrid supercapacitors with high energy and power density. <i>Nano Energy</i> , 2017 , 33, 522-531	17.1	167
50	A high-performance supercapacitor electrode based on N-doped porous graphene. <i>Journal of Power Sources</i> , 2018 , 387, 43-48	8.9	152
49	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. <i>Energy Storage Materials</i> , 2017 , 7, 32-39	19.4	124
48	g-C ₃ N ₄ promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5020-5030	13	102
47	A Highly Efficient and Robust Nanofiber Cathode for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601890	21.8	75
46	In situ Raman study of nickel bicarbonate for high-performance energy storage device. <i>Nano Energy</i> , 2019 , 64, 103919	17.1	68
45	Structurally Ordered Fe ₃ Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1803040	21.8	68
44	Ruthenium nanoparticles mounted on multielement co-doped graphene: an ultra-high-efficiency cathode catalyst for LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11224-11231	13	57
43	"One-for-All" Strategy in Fast Energy Storage: Production of Pillared MOF Nanorod-Templated Positive/Negative Electrodes for the Application of High-Performance Hybrid Supercapacitor. <i>Small</i> , 2018 , 14, e1800285	11	57
42	Structural engineering of robust titanium nitride as effective platinum support for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6065-6073	13	49
41	Ultra-high-performance doped carbon catalyst derived from o-phenylenediamine and the probable roles of Fe and melamine. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 60-69	21.8	43
40	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	13.1	42
39	Designing Robust Support for Pt Alloy Nanoframes with Durable Oxygen Reduction Reaction Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9117-9124	9.5	41
38	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	8.9	39

37	Tin and Silicon Binary Oxide on the Carbon Support of a Pt Electrocatalyst with Enhanced Activity and Durability. <i>ACS Catalysis</i> , 2015 , 5, 2242-2249	13.1	38
36	Preparation and characterization of core-shell structured catalysts using Pt _x Pd _y 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	6.7	38
35	Enhanced water management in the cathode of an air-breathing PEMFC using a dual catalyst layer and optimizing the gas diffusion and microporous layers. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3961-3967	6.7	36
34	Enhancement of anodic oxidation of formic acid on palladium decorated Pt/C catalyst. <i>Journal of Power Sources</i> , 2010 , 195, 6459-6462	8.9	35
33	Photocatalytic debromination of polybrominated diphenyl ethers (PBDEs) on metal doped TiO nanocomposites: Mechanisms and pathways. <i>Environment International</i> , 2019 , 127, 5-12	12.9	32
32	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	13	32
31	Porous and three dimensional titanium nitride supported platinum as an electrocatalyst for oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2018 , 91, 31-35	5.1	31
30	Engineering of Hierarchical and Three-Dimensional Architectures Constructed by Titanium Nitride Nanowire Assemblies for Efficient Electrocatalysis. <i>ChemElectroChem</i> , 2019 , 6, 2208-2214	4.3	27
29	A pulse electrochemical deposition method to prepare membrane electrode assemblies with ultra-low anode Pt loadings through in situ construction of active core-shell nanoparticles on an electrode. <i>Journal of Power Sources</i> , 2014 , 260, 27-33	8.9	21
28	High-performance self-humidifying membrane electrode assembly prepared by simultaneously adding inorganic and organic hygroscopic materials to the anode catalyst layer. <i>Journal of Power Sources</i> , 2013 , 241, 367-372	8.9	18
27	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25530-25537	16.4	17
26	Doped reduced graphene oxide mounted with IrO ₂ nanoparticles shows significantly enhanced performance as a cathode catalyst for Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2016 , 192, 431-438	6.7	16
25	Enhanced low-humidity performance in a proton exchange membrane fuel cell by the insertion of microcrystalline cellulose between the gas diffusion layer and the anode catalyst layer. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 15613-15621	6.7	16
24	Platinum-decorated three dimensional titanium copper nitride architectures with durable methanol oxidation reaction activity. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 8415-8424	6.7	14
23	High-Performance MEA Prepared by Direct Deposition of Platinum on the Gas Diffusion Layer Using an Atomic Layer Deposition Technique. <i>Electrochimica Acta</i> , 2015 , 177, 168-173	6.7	14
22	Atomic platinum layer coated titanium copper nitride supported on carbon nanotubes for the methanol oxidation reaction. <i>Electrochimica Acta</i> , 2017 , 248, 349-355	6.7	14
21	Three dimensional titanium molybdenum nitride nanowire assemblies as highly efficient and durable platinum support for methanol oxidation reaction. <i>Electrochimica Acta</i> , 2019 , 295, 50-57	6.7	14
20	High performance of core-shell structured Ir@Pt/C catalyst prepared by a facile pulse electrochemical deposition. <i>Electrochemistry Communications</i> , 2014 , 46, 115-119	5.1	13

19	An ultra high performance multi-element doped mesoporous carbon catalyst derived from poly(4-vinylpyridine). <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23512-23519	13	12
18	Scalable Construction of Hollow Multishell Co ₃ O ₄ with Mitigated Interface Reconstruction for Efficient Lithium Storage. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000667	4.6	12
17	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	2.7	12
16	Sulfuryl chloride as a functional additive towards dendrite-free and long-life Li metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25003-25009	13	10
15	Improvement of proton exchange membrane fuel cell performance in low-humidity conditions by adding hygroscopic agarose powder to the catalyst layer. <i>Journal of Power Sources</i> , 2015 , 273, 168-173	8.9	9
14	Robust In ₂ NCo ₃ Mnx Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn Air Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5293-5300	6.1	8
13	A bi-functional WO ₃ -based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. <i>Energy Storage Materials</i> , 2018 , 12, 79-84	19.4	8
12	Rational Design of an Ionic Liquid-Based Electrolyte with High Ionic Conductivity Towards Safe Lithium/Lithium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2810-2814	4.5	7
11	Self-humidifying membrane electrode assembly prepared by adding microcrystalline cellulose in anode catalyst layer as preserve moisture. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12842-12848	6.7	7
10	Tuning the Catalytic Activity of Ir@Pt Nanoparticles Through Controlling Ir Core Size on Cathode Performance for PEM Fuel Cell Application. <i>Frontiers in Chemistry</i> , 2018 , 6, 299	5	7
9	A durable polyvinyl butyral-CsH ₂ PO ₄ composite electrolyte for solid acid fuel cells. <i>Journal of Power Sources</i> , 2017 , 359, 1-6	8.9	6
8	Construction of a high-performance air-breathing cathode using platinum catalyst supported by carbon black and carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9191-9196	6.7	4
7	Experimental and theoretical investigations on debromination pathways of polybrominated biphenyls (PBBs) under ultraviolet light. <i>Chemosphere</i> , 2018 , 212, 1-7	8.4	3
6	In Situ Hybridizing Cu ₃ (BTC) ₂ and Titania to Attain a High-Performance Copper Catalyst: Dual-Functional Role of Metal-Support Interaction on the Activity and Selectivity. <i>ChemCatChem</i> , 2021 , 13, 3846-3856	5.2	3
5	Photodeposition and hydrogenation activity of Pt nanosites on the TiN support: Photo-assisted metal-support synergy. <i>Molecular Catalysis</i> , 2020 , 497, 111206	3.3	2
4	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. <i>Angewandte Chemie</i> , 2021 , 133, 25734	3.6	2
3	Entrapping Ru nanoparticles into TiO ₂ nanotube: Insight into the confinement synergy on boosting photo-thermal CO ₂ methanation activity. <i>Ceramics International</i> , 2021 , 47, 27316-27323	5.1	2
2	Enhanced durability and self-humidification of platinum catalyst through decoration with SnSi binary oxide. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 1163-1173	2.6	1

- 1 Natural wood derived robust carbon sheets with perpendicular channels as gas diffusion layers in air-breathing proton exchange membrane fuel cells (PEMFCs). *Catalysis Communications*, **2021**, 159, 106351 ^{3,2} ○