Dai Dang

List of Publications by Year in Descending Order

54 papers	2,638 citations	25 h-index	51 g-index
55 ext. papers	3,295 ext. citations	10 avg, IF	5.2 L-index

#	Paper	IF	Citations
54	In Situ Hybridizing Cu3(BTC)2 and Titania to Attain a High-Performance Copper Catalyst: Dual-Functional Role of Metal-Support Interaction on the Activity and Selectivity. *ChemCatChem*, **2021**, 13, 3846-3856	5.2	3
53	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. *Angewandte Chemie - International Edition*, **2021**, 60, 25530-25537	16.4	17
52	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. *Angewandte Chemie*, **2021**, 133, 25734	3.6	2
51	Entrapping Ru nanoparticles into TiO2 nanotube: Insight into the confinement synergy on boosting pho-thermal CO2 methanation activity. *Ceramics International*, **2021**, 47, 27316-27323	5.1	2
50	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	0
49	Robust InNCo3₪Mnx Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn₪Air Batteries. *ACS Applied Energy Materials*, **2020**, 3, 5293-5300	6.1	8
48	Scalable Construction of Hollow Multishell Co3O4 with Mitigated Interface Reconstruction for Efficient Lithium Storage. *Advanced Materials Interfaces*, **2020**, 7, 2000667	4.6	12
47	Photodeposition and hydrogenation activity of Pt nanosites on the TiN support: Photo-assisted metal-support synergy. *Molecular Catalysis*, **2020**, 497, 111206	3.3	2
46	g-C3N4 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. *Journal of Materials Chemistry A*, **2019**, 7, 5020-5030	13	102
45	Rational Design of an Ionic Liquid-Based Electrolyte with High Ionic Conductivity Towards Safe Lithium/Lithium-Ion Batteries. *Chemistry - an Asian Journal*, **2019**, 14, 2810-2814	4.5	7
44	Engineering of Hierarchical and Three-Dimensional Architectures Constructed by Titanium Nitride Nanowire Assemblies for Efficient Electrocatalysis. *ChemElectroChem*, **2019**, 6, 2208-2214	4.3	27
43	Platinum-decorated three dimensional titanium copper nitride architectures with durable methanol oxidation reaction activity. *International Journal of Hydrogen Energy*, **2019**, 44, 8415-8424	6.7	14
42	Photocatalytic debromination of polybrominated diphenyl ethers (PBDEs) on metal doped TiO nanocomposites: Mechanisms and pathways. *Environment International*, **2019**, 127, 5-12	12.9	32
41	Designing Robust Support for Pt Alloy Nanoframes with Durable Oxygen Reduction Reaction Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 9117-9124	9.5	41
40	In situ Raman study of nickel bicarbonate for high-performance energy storage device. *Nano Energy* , **2019**, 64, 103919	17.1	68
39	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. *Science*, **2019**, 366, 850-856	33.3	545
38	Sulfuryl chloride as a functional additive towards dendrite-free and long-life Li metal anodes. *Journal of Materials Chemistry A*, **2019**, 7, 25003-25009	13	10

37	Three dimensional titanium molybdenum nitride nanowire assemblies as highly efficient and durable platinum support for methanol oxidation reaction. *Electrochimica Acta*, **2019**, 295, 50-57	6.7	14
36	Structurally Ordered Fe3Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. *Advanced Energy Materials*, **2019**, 9, 1803040	21.8	68
35	Structural engineering of robust titanium nitride as effective platinum support for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 6065-6073	13	49
34	A Facile and Environmentally Friendly One-Pot Synthesis of Pt Surface-Enriched Pt-Pd(x)/C Catalyst for Oxygen Reduction. *Electrocatalysis*, **2018**, 9, 495-504	2.7	12
33	A high-performance supercapacitor electrode based on N-doped porous graphene. *Journal of Power Sources*, **2018**, 387, 43-48	8.9	152
32	MOF-derived □NiS nanorods on graphene as an electrode for high-energy-density supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 4003-4012	13	178
31	"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. *Small* , **2018**, 14, e1800285	11	57
30	Enhanced durability and self-humidification of platinum catalyst through decoration with SnSi binary oxide. *Journal of Applied Electrochemistry*, **2018**, 48, 1163-1173	2.6	1
29	Porous and three dimensional titanium nitride supported platinum as an electrocatalyst for oxygen reduction reaction. *Electrochemistry Communications*, **2018**, 91, 31-35	5.1	31
28	Experimental and theoretical investigations on debromination pathways of polybrominated biphenyls (PBBs) under ultraviolet light. *Chemosphere*, **2018**, 212, 1-7	8.4	3
27	A bi-functional WO3-based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. *Energy Storage Materials*, **2018**, 12, 79-84	19.4	8
26	Tuning the Catalytic Activity of Ir@Pt Nanoparticles Through Controlling Ir Core Size on Cathode Performance for PEM Fuel Cell Application. *Frontiers in Chemistry*, **2018**, 6, 299	5	7
25	Controlled synthesis of three-phase NixSy/rGO nanoflake electrodes for hybrid supercapacitors with high□energy and power density. *Nano Energy*, **2017**, 33, 522-531	17.1	167
24	High-Performance Energy Storage and Conversion Materials Derived from a Single Metal-Organic Framework/Graphene Aerogel Composite. *Nano Letters*, **2017**, 17, 2788-2795	11.5	289
23	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. *Journal of Power Sources*, **2017**, 355, 83-89	8.9	39
22	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. *Energy Storage Materials*, **2017**, 7, 32-39	19.4	124
21	A durable polyvinyl butyral-CsH2PO4 composite electrolyte for solid acid fuel cells. *Journal of Power Sources*, **2017**, 359, 1-6	8.9	6
20	Atomic platinum layer coated titanium copper nitride supported on carbon nanotubes for the methanol oxidation reaction. *Electrochimica Acta*, **2017**, 248, 349-355	6.7	14

19	A Highly Efficient and Robust Nanofiber Cathode for Solid Oxide Fuel Cells. *Advanced Energy Materials*, **2017**, 7, 1601890	21.8	75
18	Construction of a high-performance air-breathing cathode using platinum catalyst supported by carbon black and carbon nanotubes. *International Journal of Hydrogen Energy*, **2016**, 41, 9191-9196	6.7	4
17	A core–shell Pd1Ru1Ni2@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. *Journal of Materials Chemistry A*, **2016**, 4, 847-855	13	32
16	Doped reduced graphene oxide mounted with IrO2 nanoparticles shows significantly enhanced performance as a cathode catalyst for Li-O2 batteries. *Electrochimica Acta*, **2016**, 192, 431-438	6.7	16
15	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. *ACS Catalysis*, **2015**, 5, 4318-4324	13.1	42
14	High-Performance MEA Prepared by Direct Deposition of Platinum on the Gas Diffusion Layer Using an Atomic Layer Deposition Technique. *Electrochimica Acta*, **2015**, 177, 168-173	6.7	14
13	Ruthenium nanoparticles mounted on multielement co-doped graphene: an ultra-high-efficiency cathode catalyst for Li–O2 batteries. *Journal of Materials Chemistry A*, **2015**, 3, 11224-11231	13	57
12	An ultra high performance multi-element doped mesoporous carbon catalyst derived from poly(4-vinylpyridine). *Journal of Materials Chemistry A*, **2015**, 3, 23512-23519	13	12
11	Tin and Silicon Binary Oxide on the Carbon Support of a Pt Electrocatalyst with Enhanced Activity and Durability. *ACS Catalysis*, **2015**, 5, 2242-2249	13.1	38
10	Improvement of proton exchange membrane fuel cell performance in low-humidity conditions by adding hygroscopic agarose powder to the catalyst layer. *Journal of Power Sources*, **2015**, 273, 168-173	8.9	9
9	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. *International Journal of Hydrogen Energy*, **2015**, 40, 15613-15621	6.7	16
8	Enhanced water management in the cathode of an air-breathing PEMFC using a dual catalyst layer and optimizing the gas diffusion and microporous layers. *International Journal of Hydrogen Energy*, **2015**, 40, 3961-3967	6.7	36
7	Ultra-high-performance doped carbon catalyst derived from o-phenylenediamine and the probable roles of Fe and melamine. *Applied Catalysis B: Environmental*, **2014**, 158-159, 60-69	21.8	43
6	High performance of core–shell structured Ir@Pt/C catalyst prepared by a facile pulse electrochemical deposition. *Electrochemistry Communications*, **2014**, 46, 115-119	5.1	13
5	Self-humidifying membrane electrode assembly prepared by adding microcrystalline cellulose in anode catalyst layer as preserve moisture. *International Journal of Hydrogen Energy*, **2014**, 39, 12842-12848	6.7	7
4	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. *Journal of Power Sources*, **2014**, 260, 27-33	8.9	21
3	High-performance self-humidifying membrane electrode assembly prepared by simultaneously adding inorganic and organic hygroscopic materials to the anode catalyst layer. *Journal of Power Sources*, **2013**, 241, 367-372	8.9	18
2	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. *Electrochimica Acta*, **2011**, 56, 2024-2030	6.7	38

1	Enhancement of anodic oxidation of formic acid on palladium decorated Pt/C catalyst. *Journal of Power Sources*, **2010**, 195, 6459-6462	8.9	35