Qiang Tan

List of Publications by Year
in descending order

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39 papers	1,802 citations	331670 21 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	2278 citing authors

#	Article	IF	Citations
1	Atomically Dispersed Feâ€“Co Dual Metal Sites as Bifunctional Oxygen Electrocatalysts for Rechargeable and Flexible Znâ€“Air Batteries. ACS Catalysis, 2022, 12, 1216-1227.	11.2	232
2	Highly Dispersed Pd-CeO₂ Nanoparticles Supported on N-Doped Coreâ€“Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. ACS Catalysis, 2019, 9, 6362-6371.	11.2	131
3	Potassium ferrous ferricyanide nanoparticles as a high capacity and ultralong life cathode material for nonaqueous potassium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 22465-22471.	10.3	128
4	Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction in PEM Fuel Cells: Self-Template Synthesis Approach to Enhancing Catalytic Activity and Stability. Electrochemical Energy Reviews, 2019, 2, 231-251.	25.5	128
5	Chemical Vapor Deposition for N/S-Doped Single Fe Site Catalysts for the Oxygen Reduction in Direct Methanol Fuel Cells. ACS Catalysis, 2021, 11, 7450-7459.	11.2	120
6	Metalâ€“Organic Frameworks and Their Derived Materials as Electrocatalysts and Photocatalysts for CO₂ Reduction: Progress, Challenges, and Perspectives. Chemistry - A European Journal, 2018, 24, 18137-18157.	3.3	117
7	Boron-doped graphene as promising support for platinum catalyst with superior activity towards the methanol electrooxidation reaction. Journal of Power Sources, 2015, 300, 245-253.	7.8	79
8	Suppressing capacity fading and voltage decay of Li-rich layered cathode material by a surface nano-protective layer of CoF2 for lithium-ion batteries. Journal of Power Sources, 2016, 332, 230-239.	7.8	79
9	Highly efficient and stable nonplatinum anode catalyst with Au@Pd coreâ€“shell nanostructures for methanol electrooxidation. Journal of Catalysis, 2012, 295, 217-222.	6.2	68
10	Pd-around-CeO_{2â^'x}hybrid nanostructure catalyst: three-phase-transfer synthesis, electrocatalytic properties and dual promoting mechanism. Journal of Materials Chemistry A, 2014, 2, 1429-1435.	10.3	58
11	Engineering of Nitrogen Coordinated Single Cobalt Atom Moieties for Oxygen Electroreduction. ACS Applied Materials & Interfaces, 2019, 11, 41258-41266.	8.0	50
12	Polyelectrolyte Assisted Synthesis and Enhanced Oxygen Reduction Activity of Pt Nanocrystals with Controllable Shape and Size. ACS Applied Materials & Interfaces, 2014, 6, 14043-14049.	8.0	49
13	Hierarchically mesoporous carbon spheres coated with a single atomic Feâ€“Nâ€“C layer for balancing activity and mass transfer in fuel cells. , 2022, 4, 1-11.		45
14	Platinum-based intermetallic nanotubes with a coreâ€“shell structure as highly active and durable catalysts for fuel cell applications. Journal of Power Sources, 2013, 240, 630-635.	7.8	43
15	N-doped ZIF-8-derived carbon (NC-ZIF) as an anodic material for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 800, 1-7.	5.5	43
16	Mn-based layered oxide microspheres assembled by ultrathin nanosheets as cathode material for potassium-ion batteries. Electrochimica Acta, 2019, 293, 299-306.	5.2	41
17	Nickel-doped ceria nanoparticles for promoting catalytic activity of Pt/C for ethanol electrooxidation. Journal of Power Sources, 2014, 263, 310-314.	7.8	38
18	Quasi-zero-dimensional cobalt-doped CeO₂ dots on Pd catalysts for alcohol electro-oxidation with enhanced poisoning-tolerance. Nanoscale, 2017, 9, 12565-12572.	5.6	38

#	Article	IF	Citations
19	Mesoporous 3D nitrogen-doped yolk-shelled carbon spheres for direct methanol fuel cells with polymer fiber membranes. Carbon, 2018, 129, 613-620.	10.3	37
20	Lightweight Freestanding CeF₃ Nanorod/Carbon Nanotube Composite Interlayer for Lithiumâ€“Sulfur Batteries. ACS Applied Nano Materials, 2020, 3, 5732-5742.	5.0	37
21	Sandwich-like strontium fluoride graphene-modified separator inhibits polysulfide shuttling and lithium dendrite growth in lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 4833-4844.	10.3	23
22	A palladium-doped ceria@carbon coreâ€“sheath nanowire network: a promising catalyst support for alcohol electrooxidation reactions. Nanoscale, 2015, 7, 13656-13662.	5.6	22
23	Super strength of 65Mn spring steel obtained by appropriate quenching and tempering in an ultrafine grain condition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 1-8.	5.6	22
24	Cobalt nickel boride nanocomposite as high-performance anode catalyst for direct borohydride fuel cell. International Journal of Hydrogen Energy, 2021, 46, 15471-15481.	7.1	20
25	Harvesting waste heat energy by promoting H+-ion concentration difference with a fuel cell structure. Nano Energy, 2019, 57, 101-107.	16.0	18
26	Facile synthesis of Pt3Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. Journal of Alloys and Compounds, 2015, 645, 309-316.	5.5	17
27	High-Performance Polymer Fiber Membrane Based Direct Methanol Fuel Cell System with Non-Platinum Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 17145-17153.	6.7	15
28	N,O-codoped carbon spheres with uniform mesoporous entangled Co3O4 nanoparticles as a highly efficient electrocatalyst for oxygen reduction in a Zn-air battery. Journal of Colloid and Interface Science, 2021, 604, 746-756.	9.4	13
29	Alkali ion-promoted palladium subnanoclusters stabilized on porous alumina nanosheets with enhanced catalytic activity for benzene oxidation. Nano Research, 2022, 15, 5912-5921.	10.4	13
30	Carbon Layer-Enhanced Electronic Interaction of Pd-SnO₂ Hybrid Catalyst with High Performance in DAFC. ACS Applied Energy Materials, 2019, 2, 8449-8458.	5.1	11
31	Ordered mesoporous carbon spheres assisted Ru nanoclusters/RuO2 with redistribution of charge density for efficient CO2 methanation in a novel H2/CO2 fuel cell. Journal of Energy Chemistry, 2022, 72, 116-124.	12.9	11
32	Ordered Nanoporous Nitrogen- and Oxygen-Codoped Carbon Nanospheres as Electrocatalysts for Oxygen-Reduction Reaction in Direct Methanol Fuel Cells. ACS Applied Nano Materials, 2020, 3, 5139-5148.	5.0	10
33	Polymer fiber membrane-based direct ethanol fuel cell with Ni-doped SnO2 promoted Pd/C catalyst. Catalysis Science and Technology, 2020, 10, 4099-4108.	4.1	9
34	High-Performance, Stable, and Flexible Direct Methanol Fuel Cell Based on a Pre-swelling Kalium Polyacrylate Gel Electrolyte and Single-Atom Cathode Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 15138-15146.	6.7	9
35	Coreâ€“shell-structured CNT@hydrous RuO₂ as a H₂/CO₂ fuel cell cathode catalyst to promote CO₂ methanation and generate electricity. Journal of Materials Chemistry A, 2021, 9, 7617-7624.	10.3	8
36	KMn_{7.6}Co_{0.4}O₁₆ nano-rod clusters with a high discharge specific capacity as cathode materials for potassium-ion batteries. Sustainable Energy and Fuels, 2019, 3, 736-743.	4.9	6

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37	Electrospinning Highly Dispersed Ru Nanoparticle-Embedded Carbon Nanofibers Boost CO₂ Reduction in a H₂/CO₂ Fuel Cell. ACS Applied Materials & Interfaces, 2021, 13, 23523-23531.	8.0	6
38	Effect of phosphoric acid-doped polybenzimidazole membranes on the performance of H+-ion concentration cell. International Journal of Hydrogen Energy, 2021, 46, 4354-4364.	7.1	5
39	Novel honeycomb-like carbons with tunable nanopores as metal-free N, O-codoped catalysts for robust oxygen reduction. Chemical Engineering Journal, 2022, 433, 133560.	12.7	2