

# Qiang Tan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Hierarchically mesoporous carbon spheres coated with a single atomic Fe@C layer for balancing activity and mass transfer in fuel cells. , 2022, 4, 1-11.		45
2	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
3	Atomically Dispersed Fe@Co Dual Metal Sites as Bifunctional Oxygen Electrocatalysts for Rechargeable and Flexible Zn@Air Batteries. ACS Catalysis, 2022, 12, 1216-1227.	11.2	232
4	Sandwich-like strontium fluoride graphene-modified separator inhibits polysulfide shuttling and lithium dendrite growth in lithium@Sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 4833-4844.	10.3	23
5	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
6	Ordered mesoporous carbon spheres assisted Ru nanoclusters/RuO <sub>2</sub> with redistribution of charge density for efficient CO <sub>2</sub> methanation in a novel H <sub>2</sub> /CO <sub>2</sub> fuel cell. Journal of Energy Chemistry, 2022, 72, 116-124.	12.9	11
7	Effect of phosphoric acid-doped polybenzimidazole membranes on the performance of H <sup>+</sup> -ion concentration cell. International Journal of Hydrogen Energy, 2021, 46, 4354-4364.	7.1	5
8	Core@shell-structured CNT@hydrous RuO <sub>2</sub> as a H <sub>2</sub> /CO <sub>2</sub> fuel cell cathode catalyst to promote CO <sub>2</sub> methanation and generate electricity. Journal of Materials Chemistry A, 2021, 9, 7617-7624.	10.3	8
9	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
10	Electrospinning Highly Dispersed Ru Nanoparticle-Embedded Carbon Nanofibers Boost CO <sub>2</sub> Reduction in a H <sub>2</sub> /CO <sub>2</sub> Fuel Cell. ACS Applied Materials & Interfaces, 2021, 13, 23523-23531.	8.0	6
11	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
12	N,O-codoped carbon spheres with uniform mesoporous entangled Co <sub>3</sub> O <sub>4</sub> 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
13	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
14	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
15	Lightweight Freestanding CeF <sub>3</sub> Nanorod/Carbon Nanotube Composite Interlayer for Lithium@Sulfur Batteries. ACS Applied Nano Materials, 2020, 3, 5732-5742.	5.0	37
16	Polymer fiber membrane-based direct ethanol fuel cell with Ni-doped SnO <sub>2</sub> promoted Pd/C catalyst. Catalysis Science and Technology, 2020, 10, 4099-4108.	4.1	9
17	Engineering of Nitrogen Coordinated Single Cobalt Atom Moieties for Oxygen Electroreduction. ACS Applied Materials & Interfaces, 2019, 11, 41258-41266.	8.0	50
18	Carbon Layer-Enhanced Electronic Interaction of Pd-SnO <sub>2</sub> Hybrid Catalyst with High Performance in DAFC. ACS Applied Energy Materials, 2019, 2, 8449-8458.	5.1	11

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19	High-Performance Polymer Fiber Membrane Based Direct Methanol Fuel Cell System with Non-Platinum Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17145-17153.	6.7	15
20	KMn <sub>7.6</sub> Co <sub>0.4</sub> O <sub>16</sub> nano-rod clusters with a high discharge specific capacity as cathode materials for potassium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 736-743.	4.9	6
21	N-doped ZIF-8-derived carbon (NC-ZIF) as an anodic material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 800, 1-7.	5.5	43
22	Highly Dispersed Pd-CeO <sub>2</sub> Nanoparticles Supported on N-Doped Core-Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. <i>ACS Catalysis</i> , 2019, 9, 6362-6371.	11.2	131
23	Super strength of 65Mn spring steel obtained by appropriate quenching and tempering in an ultrafine grain condition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 1-8.	5.6	22
24	Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction in PEM Fuel Cells: Self-Template Synthesis Approach to Enhancing Catalytic Activity and Stability. <i>Electrochemical Energy Reviews</i> , 2019, 2, 231-251.	25.5	128
25	Harvesting waste heat energy by promoting H <sup>+</sup> -ion concentration difference with a fuel cell structure. <i>Nano Energy</i> , 2019, 57, 101-107.	16.0	18
26	Mn-based layered oxide microspheres assembled by ultrathin nanosheets as cathode material for potassium-ion batteries. <i>Electrochimica Acta</i> , 2019, 293, 299-306.	5.2	41
27	Mesoporous 3D nitrogen-doped yolk-shelled carbon spheres for direct methanol fuel cells with polymer fiber membranes. <i>Carbon</i> , 2018, 129, 613-620.	10.3	37
28	Metal-Organic Frameworks and Their Derived Materials as Electrocatalysts and Photocatalysts for CO <sub>2</sub> Reduction: Progress, Challenges, and Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, 18137-18157.	3.3	117
29	Potassium ferrous ferricyanide nanoparticles as a high capacity and ultralong life cathode material for nonaqueous potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22465-22471.	10.3	128
30	Quasi-zero-dimensional cobalt-doped CeO <sub>2</sub> dots on Pd catalysts for alcohol electro-oxidation with enhanced poisoning-tolerance. <i>Nanoscale</i> , 2017, 9, 12565-12572.	5.6	38
31	Suppressing capacity fading and voltage decay of Li-rich layered cathode material by a surface nano-protective layer of CoF <sub>2</sub> for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 332, 230-239.	7.8	79
32	Facile synthesis of Pt <sub>3</sub> Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2015, 645, 309-316.	5.5	17
33	A palladium-doped ceria@carbon core-shell sheath nanowire network: a promising catalyst support for alcohol electrooxidation reactions. <i>Nanoscale</i> , 2015, 7, 13656-13662.	5.6	22
34	Boron-doped graphene as promising support for platinum catalyst with superior activity towards the methanol electrooxidation reaction. <i>Journal of Power Sources</i> , 2015, 300, 245-253.	7.8	79
35	Nickel-doped ceria nanoparticles for promoting catalytic activity of Pt/C for ethanol electrooxidation. <i>Journal of Power Sources</i> , 2014, 263, 310-314.	7.8	38
36	Pd-around-CeO <sub>2</sub> hybrid nanostructure catalyst: three-phase-transfer synthesis, electrocatalytic properties and dual promoting mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1429-1435.	10.3	58

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37	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
38	Platinum-based intermetallic nanotubes with a core-shell structure as highly active and durable catalysts for fuel cell applications. Journal of Power Sources, 2013, 240, 630-635.	7.8	43
39	Highly efficient and stable nonplatinum anode catalyst with Au@Pd core-shell nanostructures for methanol electrooxidation. Journal of Catalysis, 2012, 295, 217-222.	6.2	68