

# Jianglan Shui

## List of Publications by Year in descending order

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73  
papers

9,960  
citations

66234

42  
h-index

79541

73  
g-index

74  
all docs

74  
docs citations

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times ranked

9502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fe-N-C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2019, 2, 259-268.	16.1	958
2	Carbon-Based Metal-Free ORR Electrocatalysts for Fuel Cells: Past, Present, and Future. <i>Advanced Materials</i> , 2019, 31, e1804799.	11.1	649
3	N-doped carbon nanomaterials are durable catalysts for oxygen reduction reaction in acidic fuel cells. <i>Science Advances</i> , 2015, 1, e1400129.	4.7	583
4	Unveiling the high-activity origin of single-atom iron catalysts for oxygen reduction reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6626-6631.	3.3	500
5	Multifunctional Organic-Inorganic Hybrid Aerogel for Self-Cleaning, Heat-Insulating, and Highly Efficient Microwave Absorbing Material. <i>Advanced Functional Materials</i> , 2019, 29, 1807624.	7.8	458
6	Porous CNTs/Co Composite Derived from Zeolitic Imidazolate Framework: A Lightweight, Ultrathin, and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34686-34698.	4.0	427
7	Single-Atom to Single-Atom Grafting of Pt <sub>1</sub> onto Fe <sub>4</sub> N <sub>4</sub> Center: Pt <sub>1</sub> @Fe <sub>4</sub> N <sub>4</sub> /C Multifunctional Electrocatalyst with Significantly Enhanced Properties. <i>Advanced Energy Materials</i> , 2018, 8, 1701345.	10.2	371
8	Highly efficient nonprecious metal catalyst prepared with metal-organic framework in a continuous carbon nanofibrous network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10629-10634.	3.3	359
9	Sulfur-anchoring synthesis of platinum intermetallic nanoparticle catalysts for fuel cells. <i>Science</i> , 2021, 374, 459-464.	6.0	343
10	Nanocasting SiO <sub>2</sub> into metal-organic frameworks imparts dual protection to high-loading Fe single-atom electrocatalysts. <i>Nature Communications</i> , 2020, 11, 2831.	5.8	321
11	The Solid-Phase Synthesis of an Fe-N-C Electrocatalyst for High-Power Proton-Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1204-1208.	7.2	293
12	Nitrogen-Doped Holey Graphitic Carbon from 2D Covalent Organic Polymers for Oxygen Reduction. <i>Advanced Materials</i> , 2014, 26, 3315-3320.	11.1	292
13	Magnetically Aligned Co-C/MWCNTs Composite Derived from MWCNT-Interconnected Zeolitic Imidazolate Frameworks for a Lightweight and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30850-30861.	4.0	282
14	Vertically Aligned N-Doped Coral-like Carbon Fiber Arrays as Efficient Air Electrodes for High-Performance Nonaqueous Li <sub>2</sub> O Batteries. <i>ACS Nano</i> , 2014, 8, 3015-3022.	7.3	242
15	Sulfur-Graphene Nanostructured Cathodes via Ball-Milling for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2014, 8, 10920-10930.	7.3	213
16	Zigzag carbon as efficient and stable oxygen reduction electrocatalyst for proton exchange membrane fuel cells. <i>Nature Communications</i> , 2018, 9, 3819.	5.8	202
17	Rare Earth Single-Atom Catalysts for Nitrogen and Carbon Dioxide Reduction. <i>ACS Nano</i> , 2020, 14, 1093-1101.	7.3	198
18	Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. <i>Nature Communications</i> , 2020, 11, 6160.	5.8	183

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19	Preparation of Fe <sup>x</sup> N <sup>y</sup> -C catalysts with FeN <sub>x</sub> (<i>x</i> = 1, 3, 4) active sites and comparison of their activities for the oxygen reduction reaction and performances in proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26147-26153.	5.2	172
20	Phosphated IrMo bimetallic cluster for efficient hydrogen evolution reaction. <i>EScience</i> , 2022, 2, 304-310.	25.0	171
21	Alginate-templated synthesis of CoFe/carbon fiber composite and the effect of hierarchically porous structure on electromagnetic wave absorption performance. <i>Carbon</i> , 2019, 151, 36-45.	5.4	161
22	Iron atom cluster interactions increase activity and improve durability in Fe-N-C fuel cells. <i>Nature Communications</i> , 2022, 13, .	5.8	159
23	Hydrogen storage in incompletely etched multilayer Ti <sub>2</sub> CT <sub>x</sub> at room temperature. <i>Nature Nanotechnology</i> , 2021, 16, 331-336.	15.6	145
24	Nitrogen-Doped Holey Graphene for High-Performance Rechargeable Li <sup>+</sup> O <sub>2</sub> Batteries. <i>ACS Energy Letters</i> , 2016, 1, 260-265.	8.8	116
25	Off/on switchable smart electromagnetic interference shielding aerogel. <i>Matter</i> , 2021, 4, 1735-1747.	5.0	114
26	Platinum Nanowires Produced by Electrospinning. <i>Nano Letters</i> , 2009, 9, 1307-1314.	4.5	112
27	Anisotropic magnetic liquid metal film for wearable wireless electromagnetic sensing and smart electromagnetic interference shielding. <i>Nano Energy</i> , 2022, 92, 106700.	8.2	108
28	Insights into the role of active site density in the fuel cell performance of Co-N-C catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117849.	10.8	104
29	Sequential Synthesis and Active Site Coordination Principle of Precious Metal Single-Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000689.	10.2	92
30	Environmentally Tough and Stretchable MXene Organohydrogel with Exceptionally Enhanced Electromagnetic Interference Shielding Performances. <i>Nano-Micro Letters</i> , 2022, 14, 77.	14.4	91
31	Fe-N-C catalysts for PEMFC: Progress towards the commercial application under DOE reference. <i>Journal of Energy Chemistry</i> , 2019, 39, 77-87.	7.1	83
32	Hydrogen Passivation of M <sup>x</sup> -N <sup>y</sup> -C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements. <i>Advanced Materials</i> , 2021, 33, e2103600.	11.1	81
33	Boosting electrocatalytic water splitting via metal-metalloid combined modulation in quaternary Ni-Fe-P-B amorphous compound. <i>Nano Research</i> , 2020, 13, 447-454.	5.8	77
34	Highly Accessible Atomically Dispersed Fe <sub>x</sub> Sites Electrocatalyst for Proton Exchange Membrane Fuel Cell. <i>Advanced Science</i> , 2021, 8, 2002249.	5.6	67
35	Synthesis and Active Site Identification of Fe <sup>x</sup> N <sup>y</sup> -C Single-Atom Catalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019, 6, 304-315.	1.7	65
36	Ancient Chemistry of Pharaohs' Snakes for Efficient Fe-/N-Doped Carbon Electrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10778-10785.	4.0	64

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37	Synergy between metallic components of MoNi alloy for catalyzing highly efficient hydrogen storage of MgH <sub>2</sub> . <i>Nano Research</i> , 2020, 13, 2063-2071.	5.8	64
38	OD-1D-2D multidimensionally assembled Co <sub>9</sub> S <sub>8</sub> /CNTs/MoS <sub>2</sub> composites for ultralight and broadband electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021, 423, 130132.	6.6	64
39	Performance improvement of lithium-ion battery by pulse current. <i>Journal of Energy Chemistry</i> , 2020, 46, 208-214.	7.1	59
40	The Solidâ€Phase Synthesis of an Feâ€Nâ€C Electrocatalyst for Highâ€Power Protonâ€Exchange Membrane Fuel Cells. <i>Angewandte Chemie</i> , 2018, 130, 1218-1222.	1.6	57
41	Electrocatalytic performances of g-C <sub>3</sub> N <sub>4</sub> -LaNiO <sub>3</sub> composite as bi-functional catalysts for lithium-oxygen batteries. <i>Scientific Reports</i> , 2016, 6, 24314.	1.6	56
42	Effect of Zn atom in Fe-N-C catalysts for electro-catalytic reactions: theoretical considerations. <i>Nano Research</i> , 2021, 14, 611-619.	5.8	52
43	Exploring Durable Single-Atom Catalysts for Proton Exchange Membrane Fuel Cells. <i>ACS Energy Letters</i> , 2022, 7, 1696-1705.	8.8	50
44	A layered double hydroxide-derived exchange spring magnet array grown on graphene and its application as an ultrathin electromagnetic wave absorbing material. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12270-12277.	2.7	42
45	MOF-Derived Carbon Networks with Atomically Dispersed Feâ€N Sites for Oxygen Reduction Reaction Catalysis in Acidic Media. , 2019, 1, 37-43.		40
46	Molecule template method for precise synthesis of Mo-based alloy clusters and electrocatalytic nitrogen reduction on partially reduced PtMo alloy oxide cluster. <i>Nano Energy</i> , 2020, 78, 105211.	8.2	38
47	Stability of PGM-free fuel cell catalysts: Degradation mechanisms and mitigation strategies. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 721-731.	1.8	34
48	High-throughput screening of carbon-supported single metal atom catalysts for oxygen reduction reaction. <i>Nano Research</i> , 2022, 15, 1054-1060.	5.8	34
49	Iodine cation bridged graphene sheets with strengthened interface combination for electromagnetic wave absorption. <i>Carbon</i> , 2021, 183, 100-107.	5.4	34
50	High-capacity K-storage operational to ~40â€C by using RGO as a model anode material. <i>Nano Energy</i> , 2020, 67, 104248.	8.2	33
51	Selfâ€Adaptive Electrode with SWCNT Bundles as Elastic Substrate for Highâ€Rate and Longâ€Cycleâ€Life Lithium/Sodium Ion Batteries. <i>Small</i> , 2018, 14, e1802913.	5.2	32
52	Temperature Impacts on Oxygen Reduction Reaction Measured by the Rotating Disk Electrode Technique. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3069-3079.	1.5	32
53	Hollow double-shell structured Void@SiO <sub>2</sub> @Co-C composite for broadband electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021, 417, 128093.	6.6	31
54	Catalysis stability enhancement of Fe/Co dual-atom site via phosphorus coordination for proton exchange membrane fuel cell. <i>Nano Research</i> , 2022, 15, 3082-3089.	5.8	31

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55	Molybdenum-based materials for electrocatalytic nitrogen reduction reaction. <i>Cell Reports Physical Science</i> , 2021, 2, 100447.	2.8	30
56	Enhanced rate performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> fibers synthesized by electrospinning. <i>Nano Energy</i> , 2015, 15, 616-624.	8.2	27
57	One-Pot Synthesis of Functionalized Holey Graphene/Sulfur Composite for Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700783.	1.9	27
58	Carbon black-supported FM-N-C (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13166-13172.	5.2	27
59	Dealloyed PtCo hollow nanowires with ultrathin wall thicknesses and their catalytic durability for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16175-16180.	5.2	26
60	Carbon Fibers Embedded with Aligned Magnetic Particles for Efficient Electromagnetic Energy Absorption and Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5266-5274.	4.0	21
61	A rationally assembled graphene nanoribbon/graphene framework for high volumetric energy and power density Li-ion batteries. <i>Nanoscale</i> , 2018, 10, 7676-7684.	2.8	18
62	Hydrogen Passivation of M-N-C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements ( <i>Adv. Mater.</i> 38/2021). <i>Advanced Materials</i> , 2021, 33, 2170300.	11.1	17
63	Non-classical hydrogen storage mechanisms other than chemisorption and physisorption. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	16
64	Recent Advances in Phosphorus-Coordinated Transition Metal Single-Atom Catalysts for Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2020, 6, 1601-1610.	1.5	14
65	Effect of Catalyst Layer Hydrophobicity on Fe-N-C Proton Exchange Membrane Fuel Cells. <i>ChemElectroChem</i> , 2020, 7, 1775-1780.	1.7	12
66	Nanoscale Pt <sub>5</sub> Ni <sub>36</sub> design and synthesis for efficient oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21051-21056.	5.2	12
67	Density Functional Theory Calculation of Zn and N Codoped Graphene for Oxygen Reduction and Evolution Reactions. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000054.	1.3	11
68	Spatial porosity design of Fe-N-C catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7764-7772.	5.2	11
69	Electrocatalytically Active Hollow Carbon Nanospheres Derived from PS- <i>b</i> -P4VP Micelles. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700404.	1.2	9
70	Cathode Local Curvature Affects Lithium Peroxide Growth in Li <sub>2</sub> O Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35264-35269.	4.0	9
71	Necklace-Like Sn@C Fiber Self-Supporting Electrode for High-Performance Sodium-Ion Battery. <i>Energy Technology</i> , 2022, 10, .	1.8	7
72	New Approaches to Non-PGM Catalysts through Rational Design. <i>ECS Transactions</i> , 2011, 30, 97-104.	0.3	6

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73	Oxygen Reduction: Nitrogen-Doped Holey Graphitic Carbon from 2D Covalent Organic Polymers for Oxygen Reduction (Adv. Mater. 20/2014). Advanced Materials, 2014, 26, 3356-3356.	11.1	6