

# Jie Wang

## List of Publications by Year in descending order

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92  
papers

7,435  
citations

53939

47  
h-index

60403

85  
g-index

92  
all docs

92  
docs citations

92  
times ranked

11967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Electrodes for Oxygen Electrocatalysis. <i>ChemElectroChem</i> , 2022, 9, .	1.7	3
2	<i>In situ</i> construction of self-supporting Ni-Fe sulfide for high-efficiency oxygen evolution. <i>New Journal of Chemistry</i> , 2022, 46, 8250-8255.	1.4	8
3	Stabilization of Ultra-Small Stannic Oxide Nanoparticles in Optimizing the Lithium Storage Kinetics. <i>Energy &amp; Fuels</i> , 2022, 36, 4034-4041.	2.5	3
4	Revealing the complex lithiation pathways and kinetics of core-shell NiO@CuO electrode. <i>Energy Storage Materials</i> , 2022, 51, 11-18.	9.5	11
5	Recent Progress of Vacancy Engineering for Electrochemical Energy Conversion Related Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009070.	7.8	166
6	Filling the in situ-generated vacancies with metal cations captured by C-N bonds of defect-rich 3D carbon nanosheet for bifunctional oxygen electrocatalysis. <i>Journal of Energy Chemistry</i> , 2021, 59, 47-54.	7.1	26
7	Direct laser writing of pure lignin on carbon cloth for highly flexible supercapacitors with enhanced areal capacitance. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3744-3754.	2.5	8
8	Constructing defect-rich Ni <sub>9</sub> S <sub>8</sub> /Fe <sub>5</sub> Ni <sub>4</sub> S <sub>8</sub> heterostructure nanoparticles for efficient oxygen evolution reaction and overall water splitting. <i>JPhys Materials</i> , 2021, 4, 034006.	1.8	9
9	Silicon-Based Lithium Ion Battery Systems: State-of-the-Art from Half and Full Cell Viewpoint. <i>Advanced Functional Materials</i> , 2021, 31, 2102546.	7.8	83
10	Self-Supporting Electrodes for Gas-Involved Key Energy Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2104620.	7.8	39
11	Co <sub>9</sub> S <sub>8</sub> @partly-graphitized carbon composites obtained through catalytic graphitization strategy as anode materials for lithium-ions batteries. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115569.	1.9	7
12	In-situ growth of CoFeS <sub>2</sub> on metal-organic frameworks-derived Co-NC polyhedron enables high-performance oxygen electrocatalysis for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2021, 512, 230430.	4.0	25
13	Synergistic regulation of nickel doping/hierarchical structure in cobalt sulfide for high performance zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120539.	10.8	31
14	Hierarchical porous activated carbon derived from <i>Enteromorpha prolifera</i> for superior electrochemical capacitive behavior. <i>Ionics</i> , 2020, 26, 403-413.	1.2	16
15	In-situ transformation to accordion-like core-shell structured metal@metallic hydroxide nanosheet from nanorod morphology for overall water-splitting in alkaline media. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 105-114.	5.0	13
16	MoO <sub>x</sub> nanoparticles anchored on N-doped porous carbon as Li-ion battery electrode. <i>Chemical Engineering Journal</i> , 2020, 381, 122588.	6.6	104
17	Rational design of Cu-Co thiospinel ternary sheet arrays for highly efficient electrocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1799-1807.	5.2	48
18	Well-ordered layered LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> submicron sphere with fast electrochemical kinetics for cathodic lithium storage. <i>Journal of Energy Chemistry</i> , 2020, 47, 188-195.	7.1	30

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19	Partial phosphorization of porous Co@Ni-B for efficient hydrogen evolution electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4545-4555.	3.8	19
20	Self-Sacrificing Template-Derived Hollow-Structured NiCo <sub>2</sub> S <sub>4</sub> Spheres with Highly Efficient Supercapacitance Performance. <i>Energy &amp; Fuels</i> , 2020, 34, 10203-10210.	2.5	21
21	Recent development of two-dimensional metal-organic framework derived electrocatalysts for hydrogen and oxygen electrocatalysis. <i>Nanoscale</i> , 2020, 12, 18497-18522.	2.8	69
22	Self-Assembly/Sacrificial Synthesis of Highly Capacitive Hierarchical Porous Carbon from Longan Pulp Biomass. <i>ChemElectroChem</i> , 2020, 7, 4606-4613.	1.7	11
23	In Situ Growth of Core-Shell Heterostructure CoMoO <sub>4</sub> @CuCo <sub>2</sub> S <sub>4</sub> Meshes as Advanced Electrodes for High-Performance Supercapacitors. <i>Energy &amp; Fuels</i> , 2020, 34, 16791-16799.	2.5	20
24	Rational Design and Engineering of Nanomaterials Derived from Prussian Blue and Its Analogs for Electrochemical Water Splitting. <i>Chemistry - an Asian Journal</i> , 2020, 15, 958-972.	1.7	28
25	Freestanding Needle Flower Structure CuCo <sub>2</sub> S <sub>4</sub> on Carbon Cloth for Flexible High Energy Supercapacitors With the Gel Electrolyte. <i>Frontiers in Chemistry</i> , 2020, 8, 62.	1.8	12
26	2.8 V Aqueous Lead Dioxide-Zinc Rechargeable Battery Using H <sub>2</sub> SO <sub>4</sub> @K <sub>2</sub> SO <sub>4</sub> @KOH Three Electrolytes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020552.	1.3	8
27	Carbon/Polymer Bilayer-Coated Si-SiO <sub>2</sub> Electrodes with Enhanced Electrical Conductivity and Structural Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 19023-19032.	4.0	18
28	Ni-Fe bimetallic core-shell structured catalysts supported on biomass longan aril derived nitrogen doped carbon for efficient oxygen reduction and evolution performance. <i>Materials Today Communications</i> , 2020, 24, 101127.	0.9	6
29	Ag-Pd core-shell electrocatalysts for ethanol oxidation and oxygen reduction reactions in alkaline medium. <i>JPhys Materials</i> , 2020, 4, 014002.	1.8	5
30	Interface Engineering of MoS <sub>2</sub> for Electrocatalytic Performance Optimization for Hydrogen Generation via Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16577-16584.	3.2	70
31	Hierarchical cobalt sulfide ultra-long microtube composed of nanosheets embedded within N-doped carbon as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 786, 475-480.	2.8	13
32	Recent progress in Co <sub>9</sub> S <sub>8</sub> -based materials for hydrogen and oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16068-16088.	5.2	95
33	Sea urchin-like Ni-Fe sulfide architectures as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12350-12357.	5.2	109
34	MOF-derived two-dimensional N-doped carbon nanosheets coupled with Co-Fe-Se as efficient bifunctional OER/ORR catalysts. <i>Nanoscale</i> , 2019, 11, 20144-20150.	2.8	83
35	Various strategies to tune the electrocatalytic performance of molybdenum phosphide supported on reduced graphene oxide for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 638-645.	5.0	28
36	Porous two-dimensional layered molybdenum compounds coupled with N-doped carbon based electrocatalysts for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2019, 465, 724-729.	3.1	15

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37	Supramolecular gel assisted synthesis of Co <sub>2</sub> P nanosheets as an efficient and stable catalyst for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2018, 42, 8800-8804.	1.4	27
38	Coordination effect of network NiO nanosheet and a carbon layer on the cathode side in constructing a high-performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6503-6509.	5.2	58
39	Heteroatom (P, B, or S) incorporated NiFe-based nanocubes as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7062-7069.	5.2	98
40	MoS <sub>2</sub> -MoP heterostructured nanosheets on polymer-derived carbon as an electrocatalyst for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 616-622.	5.2	104
41	Restricting Growth of Ni <sub>3</sub> Fe Nanoparticles on Heteroatom-Doped Carbon Nanotube/Graphene Nanosheets as Air-Electrode Electrocatalyst for Zn-Air Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38093-38100.	4.0	74
42	Exploring Indium-Based Ternary Thiospinel as Conceivable High-Potential Air-Cathode for Rechargeable Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802263.	10.2	248
43	Atomic rearrangement from disordered to ordered Pd-Fe nanocatalysts with trace amount of Pt decoration for efficient electrocatalysis. <i>Nano Energy</i> , 2018, 50, 70-78.	8.2	66
44	Tuning the electrocatalytic activity of Pt by structurally ordered PdFe/C for the hydrogen oxidation reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11346-11352.	5.2	41
45	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and <i>in Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2018, 12, 7866-7874.	7.3	49
46	Recent Progress in Nitrogen-Doped Metal-Free Electrocatalysts for Oxygen Reduction Reaction. <i>Catalysts</i> , 2018, 8, 196.	1.6	59
47	Boosting Oxygen Reduction Catalysis with N-doped Carbon Coated Co <sub>9</sub> S <sub>8</sub> Microtubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25415-25421.	4.0	89
48	Phase conversion of Pt <sub>3</sub> Ni <sub>2</sub> /C from disordered alloy to ordered intermetallic with strained lattice for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 283, 1253-1260.	2.6	26
49	Controllable construction of flower-like FeS/Fe <sub>2</sub> O <sub>3</sub> composite for lithium storage. <i>Journal of Power Sources</i> , 2018, 392, 193-199.	4.0	50
50	Hierarchically Porous Electrocatalyst with Vertically Aligned Defect-Rich CoMoS Nanosheets for the Hydrogen Evolution Reaction in an Alkaline Medium. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 5288-5294.	4.0	93
51	Facile preparation of carbon sphere supported molybdenum compounds (P, C and S) as hydrogen evolution electrocatalysts in acid and alkaline electrolytes. <i>Nano Energy</i> , 2017, 32, 511-519.	8.2	143
52	Controllable synthesis of molybdenum-based electrocatalysts for a hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4879-4885.	5.2	110
53	Highly efficient and stable MoP-RGO nanoparticles as electrocatalysts for hydrogen evolution. <i>Electrochimica Acta</i> , 2017, 232, 254-261.	2.6	66
54	A general approach for the direct fabrication of metal oxide-based electrocatalysts for efficient bifunctional oxygen electrodes. <i>Sustainable Energy and Fuels</i> , 2017, 1, 823-831.	2.5	24

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55	Optimizing the ORR activity of Pd based nanocatalysts by tuning their strain and particle size. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9867-9872.	5.2	98
56	High-rate and long-life lithium-ion battery performance of hierarchically hollow-structured NiCo <sub>2</sub> O <sub>4</sub> /CNT nanocomposite. <i>Electrochimica Acta</i> , 2017, 244, 8-15.	2.6	39
57	Effect of KOH etching on the structure and electrochemical performance of SiOC anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 245, 287-295.	2.6	61
58	Various Structured Molybdenum-based Nanomaterials as Advanced Anode Materials for Lithium ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12366-12372.	4.0	29
59	Biomass derived carbon for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2411-2428.	5.2	632
60	Biomass derived nitrogen doped carbon with porous architecture as efficient electrode materials for supercapacitors. <i>Chinese Chemical Letters</i> , 2017, 28, 2227-2230.	4.8	47
61	Porous Structured Ni-Fe-P Nanocubes Derived from a Prussian Blue Analogue as an Electrocatalyst for Efficient Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26134-26142.	4.0	220
62	Molybdenum carbides embedded on carbon nanotubes for efficient hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2017, 801, 7-13.	1.9	23
63	Nitrogen-Doped Hierarchical Porous Carbons Derived from Sodium Alginate as Efficient Oxygen Reduction Reaction Electrocatalysts. <i>ChemCatChem</i> , 2017, 9, 809-815.	1.8	45
64	Self-supported ternary Ni-Fe-P nanosheets derived from metal-organic frameworks as efficient overall water splitting electrocatalysts. <i>Electrochimica Acta</i> , 2017, 258, 423-432.	2.6	90
65	Recent Progress of Metal Organic Frameworks-Based Nanomaterials for Electrocatalysis. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 149-164.	2.2	8
66	Graphene Porous Foam Loaded with Molybdenum Carbide Nanoparticulate Electrocatalyst for Effective Hydrogen Generation. <i>ChemSusChem</i> , 2016, 9, 855-862.	3.6	49
67	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. <i>Nature Communications</i> , 2016, 7, 13335.	5.8	65
68	Ultralow content of Pt on Pd-Co-Cu/C ternary nanoparticles with excellent electrocatalytic activity and durability for the oxygen reduction reaction. <i>Nano Energy</i> , 2016, 27, 475-481.	8.2	26
69	Pt skin on Pd-Co-Zn/C ternary nanoparticles with enhanced Pt efficiency toward ORR. <i>Nanoscale</i> , 2016, 8, 14793-14802.	2.8	22
70	Nitrogen and sulfur co-doping of 3D hollow-structured carbon spheres as an efficient and stable metal free catalyst for the oxygen reduction reaction. <i>Nanoscale</i> , 2016, 8, 19086-19092.	2.8	125
71	Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. <i>Nature Communications</i> , 2016, 7, 11941.	5.8	67
72	Hollow-Structured Carbon-Supported Nickel Cobaltite Nanoparticles as an Efficient Bifunctional Electrocatalyst for the Oxygen Reduction and Evolution Reactions. <i>ChemCatChem</i> , 2016, 8, 736-742.	1.8	70

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73	Supramolecular gel-assisted synthesis of double shelled Co@CoO@N/C/C nanoparticles with synergistic electrocatalytic activity for the oxygen reduction reaction. <i>Nanoscale</i> , 2016, 8, 4681-4687.	2.8	74
74	Rational design of three-dimensional nitrogen and phosphorus co-doped graphene nanoribbons/CNTs composite for the oxygen reduction. <i>Chinese Chemical Letters</i> , 2016, 27, 597-601.	4.8	51
75	Nitrogen and sulfur co-doping of partially exfoliated MWCNTs as 3-D structured electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5678-5684.	5.2	66
76	Three-dimensional hollow-structured binary oxide particles as an advanced anode material for high-rate and long cycle life lithium-ion batteries. <i>Nano Energy</i> , 2016, 20, 212-220.	8.2	53
77	Co <sub>9</sub> S <sub>8</sub> Nanotubes as an Efficient Catalyst for Hydrogen Evolution Reaction in Alkaline Electrolyte. <i>American Journal of Analytical Chemistry</i> , 2016, 07, 210-218.	0.3	9
78	Template-Free Synthesis of Hollow-Structured Co <sub>3</sub> O <sub>4</sub> Nanoparticles as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2015, 9, 1775-1781.	7.3	275
79	Synergistic enhancement of nitrogen and sulfur co-doped graphene with carbon nanosphere insertion for the electrocatalytic oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7727-7731.	5.2	61
80	Enhanced electrocatalytic activity and stability of Pd <sub>3</sub> V/C nanoparticles with a trace amount of Pt decoration for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20966-20972.	5.2	12
81	Structurally ordered Pt-Zn/C series nanoparticles as efficient anode catalysts for formic acid electrooxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22129-22135.	5.2	46
82	3D hollow structured Co <sub>2</sub> FeO <sub>4</sub> /MWCNT as an efficient non-precious metal electrocatalyst for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1601-1608.	5.2	48
83	NiCo <sub>2</sub> S <sub>4</sub> Nanosheets Grown on Nitrogen-Doped Carbon Foams as an Advanced Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1400977.	10.2	729
84	Facile synthesis of boron and nitrogen-doped graphene as efficient electrocatalyst for the oxygen reduction reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16043-16052.	3.8	180
85	Facile synthesis of sub-monolayer Sn, Ru, and RuSn decorated Pt/C nanoparticles for formaldehyde electrooxidation. <i>Journal of Electroanalytical Chemistry</i> , 2014, 712, 55-61.	1.9	8
86	Recent Progress on Mesoporous Carbon Materials for Advanced Energy Conversion and Storage. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 515-539.	1.2	77
87	Fabrication of porous carbon spheres for high-performance electrochemical capacitors. <i>RSC Advances</i> , 2014, 4, 7538.	1.7	83
88	A Solution-Phase Bifunctional Catalyst for Lithium-Oxygen Batteries. <i>Journal of the American Chemical Society</i> , 2014, 136, 8941-8946.	6.6	409
89	One-pot synthesis of nitrogen and sulfur co-doped graphene as efficient metal-free electrocatalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , 2014, 50, 4839-4842.	2.2	302
90	Facile single-step preparation of Pt/N-graphene catalysts with improved methanol electrooxidation activity. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1089-1098.	1.2	30

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91	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. Carbon, 2013, 52, 181-192.	5.4	275
92	Ordered Hierarchical Mesoporous/Microporous Carbon Derived from Mesoporous Titanium Carbide/Carbon Composites and its Electrochemical Performance in Supercapacitor. Advanced Energy Materials, 2011, 1, 1101-1108.	10.2	246