

Xin Wang

List of Publications by Year in descending order

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41
papers

7,374
citations

147801

31
h-index

276875

41
g-index

41
all docs

41
docs citations

41
times ranked

9823
citing authors

#	ARTICLE	IF	CITATIONS
1	A metal-organic framework-derived bifunctional oxygen electrocatalyst. <i>Nature Energy</i> , 2016, 1, .	39.5	1,974
2	Direct transformation of bulk copper into copper single sites via emitting and trapping of atoms. <i>Nature Catalysis</i> , 2018, 1, 781-786.	34.4	746
3	A Review of Phosphide-Based Materials for Electrocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2015, 5, 1500985.	19.5	707
4	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019, 2, 688-695.	34.4	423
5	Rational Design of Transition Metal-Based Materials for Highly Efficient Electrocatalysis. <i>Small Methods</i> , 2019, 3, 1800211.	8.6	250
6	Carbon nanofiber aerogels for emergent cleanup of oil spillage and chemical leakage under harsh conditions. <i>Scientific Reports</i> , 2014, 4, 4079.	3.3	223
7	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 2563-2570.	30.8	216
8	Edge-Rich Fe ₄ Active Sites in Defective Carbon for Oxygen Reduction Catalysis. <i>Advanced Materials</i> , 2020, 32, e2000966.	21.0	215
9	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13565-13572.	13.8	205
10	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 232-237.	20.2	183
11	Sulfur-Modified Oxygen Vacancies in Iron-Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14664-14670.	13.8	178
12	Scalable Template Synthesis of Resorcinol-Formaldehyde/Graphene Oxide Composite Aerogels with Tunable Densities and Mechanical Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2397-2401.	13.8	168
13	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805581.	21.0	168
14	Understanding the Activity of Co ₄ C _x in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6122-6127.	13.8	156
15	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 2171-2178.	13.7	140
16	Polymerization under Hypersaline Conditions: A Robust Route to Phenolic Polymer-Derived Carbon Aerogels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14623-14627.	13.8	136
17	Polymerization under Hypersaline Conditions: A Robust Route to Phenolic Polymer-Derived Carbon Aerogels. <i>Angewandte Chemie</i> , 2016, 128, 14843-14847.	2.0	120
18	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16421-16425.	13.8	120

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19	A Directional Synthesis for Topological Defect in Carbon. <i>CheM</i> , 2020, 6, 2009-2023.	11.7	120
20	Modulating Metal-Organic Frameworks as Advanced Oxygen Electrocatalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2003291.	19.5	105
21	Sulfur-Modified Oxygen Vacancies in Iron-Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. <i>Angewandte Chemie</i> , 2020, 132, 14772-14778.	2.0	89
22	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9404-9408.	13.8	87
23	Single-Crystalline (1 × 1 × 2) Nanosheets with Dominant $\{111\}$ Facets <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0003.gif" overflow="scroll"><mml:mrow><mml:mo>{</mml:mo><mml:mi>01</mml:mi></mml:mrow><mml:mover accent="true"><mml:mi>1</mml:mi></mml:mover><mml:mover accent="true"><mml:mi>1</mml:mi></mml:mover><mml:mover accent="true"><mml:mi>1</mml:mi></mml:mover></small></small>	16.0	68
24	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 13699-13706.	2.0	64
25	Hierarchically Porous Ti_3C_2 MXene with Tunable Active Edges and Unsaturated Coordination Bonds for Superior Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021, 15, 19457-19467.	14.6	63
26	A novel polyurethane prepolymer as toughening agent: Preparation, characterization, and its influence on mechanical and flame retardant properties of phenolic foam. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2720-2728.	2.6	62
27	Boosting Sodium-Ion Storage by Encapsulating NiS (CoS) Hollow Nanoparticles into Carbonaceous Fibers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40531-40539.	8.0	62
28	Understanding the Activity of Co_4 in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 6178-6183.	2.0	47
29	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. <i>IScience</i> , 2018, 7, 145-153.	4.1	39
30	Clarifying the Origin of Oxygen Reduction Activity in Heteroatom-Modified Defective Carbon. <i>Cell Reports Physical Science</i> , 2020, 1, 100083.	5.6	35
31	A pre-constructed graphene-ammonium polyphosphate aerogel (GAPPA) for efficiently enhancing the mechanical and fire-safety performances of polymers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4449-4457.	10.3	31
32	Scalable Template Synthesis of Resorcinol-Formaldehyde/Graphene Oxide Composite Aerogels with Tunable Densities and Mechanical Properties. <i>Angewandte Chemie</i> , 2015, 127, 2427-2431.	2.0	27
33	Unique Necklace-Like Phenol Formaldehyde Resin Nanofibers: Scalable Templating Synthesis, Casting Films, and Their Superhydrophobic Property. <i>Advanced Functional Materials</i> , 2016, 26, 5086-5092.	14.9	25
34	Ultrathin amorphous iron-doped cobalt-molybdenum hydroxide nanosheets for advanced oxygen evolution reactions. <i>Nanoscale</i> , 2021, 13, 3153-3160.	5.6	24
35	Hierarchical porous structure construction for highly stable self-supporting lithium metal anode. <i>Nano Energy</i> , 2022, 93, 106905.	16.0	21
36	Superelastic, Anticorrosive, and Flame-Resistant Nitrogen-Containing Resorcinol Formaldehyde/Graphene Oxide Composite Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10873-10879.	6.7	20

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37	One-step In-situ Synthesis of Vacancy-rich CoFe ₂ O ₄ @Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 479-487.	2.6	20
38	The electrochemical reforming of glycerol at Pd nanocrystals modified ultrathin NiO nanoplates hybrids: An efficient system for glyceraldehyde and hydrogen coproduction. <i>Nano Research</i> , 2022, 15, 1934-1941.	10.4	13
39	Metal-graphene-synergized melamine aerogel with robust elasticity and flame-retardancy for thermal-insulated-packaging industry. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 140, 106195.	7.6	11
40	Chinese knot-like bimetallic NiCo ₂ S ₄ grew on 3D graphene foam as high-performance electrode for Na ⁺ storage. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161988.	5.5	9
41	Engineering pyridinic and pyrrolic N-enriched graphene quantum dots to strengthen metal-support interactions for highly efficient methanol oxidation. <i>Journal of Materials Science</i> , 2022, 57, 3252-3267.	3.7	4