

Gongwei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,516
citations

257450

24
h-index

276875

41
g-index

41
all docs

41
docs citations

41
times ranked

3510
citing authors

#	ARTICLE	IF	CITATIONS
1	Pt–Ru catalyzed hydrogen oxidation in alkaline media: oxophilic effect or electronic effect?. <i>Energy and Environmental Science</i> , 2015, 8, 177-181.	30.8	418
2	An alkaline polymer electrolyte CO ₂ electrolyzer operated with pure water. <i>Energy and Environmental Science</i> , 2019, 12, 2455-2462.	30.8	231
3	Pt Skin on AuCu Intermetallic Substrate: A Strategy to Maximize Pt Utilization for Fuel Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 9643-9649.	13.7	220
4	Highly Selective Reduction of CO ₂ to C ₂₊ Hydrocarbons at Copper/Polyaniline Interfaces. <i>ACS Catalysis</i> , 2020, 10, 4103-4111.	11.2	220
5	Confined phosphorus in carbon nanotube-backboned mesoporous carbon as superior anode material for sodium/potassium-ion batteries. <i>Nano Energy</i> , 2018, 52, 1-10.	16.0	148
6	Chemical Prelithiation of Negative Electrodes in Ambient Air for Advanced Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8699-8703.	8.0	100
7	Interface-Enhanced Catalytic Selectivity on the C ₂ Products of CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2021, 11, 2473-2482.	11.2	92
8	The Progress of Li–S Batteries—Understanding of the Sulfur Redox Mechanism: Dissolved Polysulfide Ions in the Electrolytes. <i>Advanced Materials Technologies</i> , 2018, 3, 1700233.	5.8	85
9	Electrochemical Impedance and its Applications in Energy Storage Systems. <i>Small Methods</i> , 2018, 2, 1700342.	8.6	79
10	AuCu intermetallic nanoparticles: surfactant-free synthesis and novel electrochemistry. <i>Journal of Materials Chemistry</i> , 2012, 22, 15769.	6.7	68
11	Dual carbon-protected metal sulfides and their application to sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13294-13301.	10.3	63
12	High performance lithium-ion and lithium–sulfur batteries using prelithiated phosphorus/carbon composite anode. <i>Energy Storage Materials</i> , 2020, 24, 147-152.	18.0	60
13	Pd skin on AuCu intermetallic nanoparticles: A highly active electrocatalyst for oxygen reduction reaction in alkaline media. <i>Nano Energy</i> , 2016, 29, 268-274.	16.0	55
14	Controlled Prelithiation of SnO ₂ /C Nanocomposite Anodes for Building Full Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19423-19430.	8.0	55
15	A completely precious metal-free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119883119.	7.1	54
16	Exploring the Composition–Activity Relation of Ni–Cu Binary Alloy Electrocatalysts for Hydrogen Oxidation Reaction in Alkaline Media. <i>ACS Applied Energy Materials</i> , 2019, 2, 3160-3165.	5.1	47
17	Customizable CO ₂ Electroreduction to C ₁ or C ₂₊ Products through Cu ₂ /CeO ₂ Interface Engineering. <i>ACS Catalysis</i> , 2022, 12, 1004-1011.	11.2	47
18	Reduced graphene-oxide/highly ordered mesoporous SiO _x hybrid material as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 273, 26-33.	5.2	45

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19	Improving the Antioxidation Capability of the Ni Catalyst by Carbon Shell Coating for Alkaline Hydrogen Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31575-31581.	8.0	44
20	Exploring polycyclic aromatic hydrocarbons as an anolyte for nonaqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13286-13293.	10.3	42
21	Intermolecular Energy Gap-Induced Formation of High-Valent Cobalt Species in CoOOH Surface Layer on Cobalt Sulfides for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	39
22	Regulation of the activity, selectivity, and durability of Cu-based electrocatalysts for CO ₂ reduction. <i>Science China Chemistry</i> , 2021, 64, 1660-1678.	8.2	38
23	Quaternized cellulose-supported gold nanoparticles as capillary coatings to enhance protein separation by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2014, 1343, 160-166.	3.7	35
24	Unraveling the composition-activity relationship of Pt Ru binary alloy for hydrogen oxidation reaction in alkaline media. <i>Journal of Power Sources</i> , 2019, 412, 282-286.	7.8	29
25	Chemical prelithiation of Al for use as an ambient air compatible and polysulfide resistant anode for Li-ion/S batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18715-18720.	10.3	24
26	Electrochemical CO ₂ reduction on heterogeneous cobalt phthalocyanine catalysts with different carbon supports. <i>Chemical Physics Letters</i> , 2020, 754, 137655.	2.6	24
27	Alkaline polymer electrolyte fuel cells without anode humidification and H ₂ emission. <i>Journal of Power Sources</i> , 2020, 472, 228471.	7.8	23
28	Prelithiation Bridges the Gap for Developing Next-Generation Lithium-Ion Batteries/Capacitors. <i>Small Methods</i> , 2022, 6, .	8.6	23
29	Enhanced mass transport and water management of polymer electrolyte fuel cells via 3-D printed architectures. <i>Journal of Power Sources</i> , 2021, 515, 230636.	7.8	17
30	Viologen/Bromide Dual-Redox Electrochemical Capacitor with Two-Electron Reduction of Viologen. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41215-41221.	8.0	16
31	Improving the Catalytic Efficiency of NiFe-LDH/ATO by Air Plasma Treatment for Oxygen Evolution Reaction. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 293-297.	2.6	16
32	Highly Efficient Ni-Fe Based Oxygen Evolution Catalyst Prepared by A Novel Pulse Electrochemical Approach. <i>Electrochimica Acta</i> , 2017, 247, 722-729.	5.2	12
33	Ammonia-Treated Ordered Mesoporous Carbons with Hierarchical Porosity and Nitrogen-Doping for Lithium-Sulfur Batteries. <i>ChemistrySelect</i> , 2017, 2, 7160-7168.	1.5	8
34	Preanodized Cu Surface for Selective CO ₂ Electroreduction to C ₁ or C ₂₊ Products. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20953-20961.	8.0	8
35	Intermetallic Pt ₂ Si: magnetron-sputtering preparation and electrocatalysis toward ethanol oxidation. <i>Journal of Energy Chemistry</i> , 2014, 23, 265-268.	12.9	6
36	Hydrogen Oxidation Reaction on Pd-Ni(OH) ₂ Composite Electrocatalysts in an Alkaline Electrolyte. <i>ChemistrySelect</i> , 2020, 5, 7803-7807.	1.5	6

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37	Ultrathin Self-Cross-Linked Alkaline Polymer Electrolyte Membrane for APEFC Applications. ACS Applied Energy Materials, 2021, 4, 4297-4301.	5.1	5
38	Application of rock-salt-type Co ²⁺ /Mn oxides for alkaline polymer electrolyte fuel cells. Journal of Power Sources, 2022, 520, 230868.	7.8	5
39	Dendrite-Free Sn Anode with High Reversibility for Aqueous Batteries Enabled by "Water-in-Salt" Electrolyte. ACS Applied Energy Materials, 2020, 3, 5031-5038.	5.1	4
40	Sulfur redox reactions on nanostructured highly oriented pyrolytic graphite (HOPG) electrodes: Direct evidence for superior electrocatalytic performance on defect sites. Carbon, 2017, 119, 460-463.	10.3	3
41	<i>In situ</i> surface enhanced Raman spectroscopy study of electrode/polyelectrolyte interfaces. Faraday Discussions, 2021, 233, 100-111.	3.2	2