Gongwei Wang

List of Publications by Year
in descending order

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41 papers	2,516 citations	257357 24 h-index	276775 41 g-index
41 all docs	41 docs citations	41 times ranked	3510 citing authors

#	Article	IF	Citations
1	Application of rock-salt-type Coâ€“Mn oxides for alkaline polymer electrolyte fuel cells. Journal of Power Sources, 2022, 520, 230868.	4.0	5
2	Intermolecular Energy Gapâ€Induced Formation of Highâ€Valent Cobalt Species in CoOOH Surface Layer on Cobalt Sulfides for Efficient Water Oxidation. Angewandte Chemie, 2022, 134, .	1.6	39
3	Customizable CO₂ Electroreduction to C₁ or C₂₊ Products through Cu_y/CeO₂ Interface Engineering. ACS Catalysis, 2022, 12, 1004-1011.	5.5	47
4	A completely precious metalâ€“free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119883119.	3.3	54
5	Preanodized Cu Surface for Selective CO₂ Electroreduction to C₁ or C₂₊ Products. ACS Applied Materials & Interfaces, 2022, 14, 20953-20961.	4.0	8
6	Prelithiation Bridges the Gap for Developing Nextâ€Generation Lithiumâ€Ion Batteries/Capacitors. Small Methods, 2022, 6, .	4.6	23
7	Interface-Enhanced Catalytic Selectivity on the C₂ Products of CO₂ Electroreduction. ACS Catalysis, 2021, 11, 2473-2482.	5.5	92
8	Improving the Catalytic Efficiency of NiFe-LDH/ATO by Air Plasma Treatment for Oxygen Evolution Reaction. Chemical Research in Chinese Universities, 2021, 37, 293-297.	1.3	16
9	Ultrathin Self-Cross-Linked Alkaline Polymer Electrolyte Membrane for APEFC Applications. ACS Applied Energy Materials, 2021, 4, 4297-4301.	2.5	5
10	Regulation of the activity, selectivity, and durability of Cu-based electrocatalysts for CO2 reduction. Science China Chemistry, 2021, 64, 1660-1678.	4.2	38
11	Enhanced mass transport and water management of polymer electrolyte fuel cells via 3-D printed architectures. Journal of Power Sources, 2021, 515, 230636.	4.0	17
12	In situ surface enhanced Raman spectroscopy study of electrodeâ€“polyelectrolyte interfaces. Faraday Discussions, 2021, 233, 100-111.	1.6	2
13	High performance lithium-ion and lithiumâ€“sulfur batteries using prelithiated phosphorus/carbon composite anode. Energy Storage Materials, 2020, 24, 147-152.	9.5	60
14	Alkaline polymer electrolyte fuel cells without anode humidification and H2 emission. Journal of Power Sources, 2020, 472, 228471.	4.0	23
15	Hydrogen Oxidation Reaction on Pdâ€Ni(OH) 2 Composite Electrocatalysts in an Alkaline Electrolyte. ChemistrySelect, 2020, 5, 7803-7807.	0.7	6
16	Chemical prelithiation of Al for use as an ambient air compatible and polysulfide resistant anode for Li-ion/S batteries. Journal of Materials Chemistry A, 2020, 8, 18715-18720.	5.2	24
17	Electrochemical CO2 reduction on heterogeneous cobalt phthalocyanine catalysts with different carbon supports. Chemical Physics Letters, 2020, 754, 137655.	1.2	24
18	Improving the Antioxidation Capability of the Ni Catalyst by Carbon Shell Coating for Alkaline Hydrogen Oxidation Reaction. ACS Applied Materials & Interfaces, 2020, 12, 31575-31581.	4.0	44

#	Article	IF	Citations
19	Highly Selective Reduction of CO₂ to C₂₊ Hydrocarbons at Copper/Polyaniline Interfaces. ACS Catalysis, 2020, 10, 4103-4111.	5.5	220
20	Dendrite-Free Sn Anode with High Reversibility for Aqueous Batteries Enabled by â€œWater-in-Saltâ€• Electrolyte. ACS Applied Energy Materials, 2020, 3, 5031-5038.	2.5	4
21	Controlled Prelithiation of SnO₂/C Nanocomposite Anodes for Building Full Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 19423-19430.	4.0	55
22	Viologen/Bromide Dual-Redox Electrochemical Capacitor with Two-Electron Reduction of Viologen. ACS Applied Materials & Interfaces, 2019, 11, 41215-41221.	4.0	16
23	An alkaline polymer electrolyte CO₂ electrolyzer operated with pure water. Energy and Environmental Science, 2019, 12, 2455-2462.	15.6	231
24	Exploring the Compositionâ€“Activity Relation of Niâ€“Cu Binary Alloy Electrocatalysts for Hydrogen Oxidation Reaction in Alkaline Media. ACS Applied Energy Materials, 2019, 2, 3160-3165.	2.5	47
25	Chemical Prelithiation of Negative Electrodes in Ambient Air for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8699-8703.	4.0	100
26	Unraveling the composition-activity relationship of Pt Ru binary alloy for hydrogen oxidation reaction in alkaline media. Journal of Power Sources, 2019, 412, 282-286.	4.0	29
27	Reduced graphene-oxide/highly ordered mesoporous SiOx hybrid material as an anode material for lithium ion batteries. Electrochimica Acta, 2018, 273, 26-33.	2.6	45
28	Confined phosphorus in carbon nanotube-backboned mesoporous carbon as superior anode material for sodium/potassium-ion batteries. Nano Energy, 2018, 52, 1-10.	8.2	148
29	Exploring polycyclic aromatic hydrocarbons as an anolyte for nonaqueous redox flow batteries. Journal of Materials Chemistry A, 2018, 6, 13286-13293.	5.2	42
30	Electrochemical Impedance and its Applications in Energyâ€Storage Systems. Small Methods, 2018, 2, 1700342.	4.6	79
31	Dual carbon-protected metal sulfides and their application to sodium-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 13294-13301.	5.2	63
32	The Progress of Liâ€“S Batteriesâ€”Understanding of the Sulfur Redox Mechanism: Dissolved Polysulfide Ions in the Electrolytes. Advanced Materials Technologies, 2018, 3, 1700233.	3.0	85
33	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.	5.4	3
34	Ammoniaâ€Treated Ordered Mesoporous Carbons with Hierarchical Porosity and Nitrogenâ€Doping for Lithiumâ€Sulfur Batteries. ChemistrySelect, 2017, 2, 7160-7168.	0.7	8
35	Highly Efficient Ni-Fe Based Oxygen Evolution Catalyst Prepared by A Novel Pulse Electrochemical Approach. Electrochimica Acta, 2017, 247, 722-729.	2.6	12
36	Pd skin on AuCu intermetallic nanoparticles: A highly active electrocatalyst for oxygen reduction reaction in alkaline media. Nano Energy, 2016, 29, 268-274.	8.2	55

#	Article	IF	Citations
37	Ptâ€“Ru catalyzed hydrogen oxidation in alkaline media: oxophilic effect or electronic effect?. Energy and Environmental Science, 2015, 8, 177-181.	15.6	418
38	Quaternized cellulose-supported gold nanoparticles as capillary coatings to enhance protein separation by capillary electrophoresis. Journal of Chromatography A, 2014, 1343, 160-166.	1.8	35
39	Pt Skin on AuCu Intermetallic Substrate: A Strategy to Maximize Pt Utilization for Fuel Cells. Journal of the American Chemical Society, 2014, 136, 9643-9649.	6.6	220
40	Intermetallic Pt2Si: magnetron-sputtering preparation and electrocatalysis toward ethanol oxidation. Journal of Energy Chemistry, 2014, 23, 265-268.	7.1	6
41	AuCu intermetallic nanoparticles: surfactant-free synthesis and novel electrochemistry. Journal of Materials Chemistry, 2012, 22, 15769.	6.7	68