

Kai Qi

List of Publications by Year in descending order

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34
papers

2,699
citations

218592

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377752

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docs citations

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times ranked

3407
citing authors

#	ARTICLE	IF	CITATIONS
1	Constructing N-doping biomass-derived carbon with hierarchically porous architecture to boost fast reaction kinetics for high-performance lithium storage. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 741-751.	5.0	19
2	Modeling the natural degradation kinetics of conducting polypyrrole for service failure prediction in NaOH aqueous media. <i>Polymer Degradation and Stability</i> , 2021, 183, 109418.	2.7	6
3	Design and Synthesis of Conductive Metal-Organic Frameworks and Their Composites for Supercapacitors. <i>ChemElectroChem</i> , 2021, 8, 1021-1034.	1.7	37
4	Flexible and hollow polypyrrole foam with high loading of metal-organic framework nanowires for wearable supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21799-21806.	5.2	30
5	Recent Advances on Electrospun Nanomaterials for Zinc-Air Batteries. <i>Small Science</i> , 2021, 1, 2100010.	5.8	88
6	Insight into effect of electrolyte temperature on electroactivity degradation of conducting polypyrrole in NaOH. <i>Polymer Degradation and Stability</i> , 2021, 189, 109593.	2.7	6
7	Electrospinning Synthesis of Self-Standing Cobalt/Nanocarbon Hybrid Membrane for Long-Life Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2105021.	7.8	66
8	2D Nitrogen-Doped Carbon Nanotubes/Graphene Hybrid as Bifunctional Oxygen Electrocatalyst for Long-Life Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1906081.	7.8	190
9	Integrated Conductive Hybrid Architecture of Metal-Organic Framework Nanowire Array on Polypyrrole Membrane for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 1901892.	10.2	154
10	Bismuth Oxides with Enhanced Bismuth-Oxygen Structure for Efficient Electrochemical Reduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2020, 10, 743-750.	5.5	234
11	Metal-organic framework membranes: From synthesis to electrocatalytic applications. <i>Chinese Chemical Letters</i> , 2020, 31, 2189-2201.	4.8	61
12	Preparation of nickel-iron hydroxides by microorganism corrosion for efficient oxygen evolution. <i>Nature Communications</i> , 2020, 11, 5075.	5.8	226
13	Hybrid Architecture of a Porous Polypyrrole Scaffold Loaded with Metal-Organic Frameworks for Flexible Solid-State Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 11920-11928.	2.5	31
14	Microstructure and Corrosion of Cast Magnesium Alloy ZK60 in NaCl Solution. <i>Materials</i> , 2020, 13, 3833.	1.3	11
15	Metal-organic framework-derived cupric oxide polycrystalline nanowires for selective carbon dioxide electroreduction to C2 valuables. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12418-12423.	5.2	38
16	Porous graphene based electrochemical immunosensor using Cu ₃ (BTC) ₂ metal-organic framework as nonenzymatic label. <i>Talanta</i> , 2020, 217, 121042.	2.9	29
17	Surface evolution and reconstruction of oxygen-abundant FePi/NiFeP synergy in NiFe phosphides for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18925-18931.	5.2	37
18	Redox Tuning in Crystalline and Electronic Structure of Bimetal-Organic Frameworks Derived Cobalt/Nickel Boride/Sulfide for Boosted Faradaic Capacitance. <i>Advanced Materials</i> , 2019, 31, e1905744.	11.1	158

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19	Engineering one-dimensional and hierarchical PtFe alloy assemblies towards durable methanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13090-13095.	5.2	56
20	Degradation behavior of free-standing polypyrrole films in NaOH solution. <i>Polymer Degradation and Stability</i> , 2019, 160, 60-72.	2.7	11
21	Surface reconstruction of cobalt phosphide nanosheets by electrochemical activation for enhanced hydrogen evolution in alkaline solution. <i>Chemical Science</i> , 2019, 10, 2019-2024.	3.7	163
22	A core/shell structured tubular graphene nanoflake-coated polypyrrole hybrid for all-solid-state flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3913-3918.	5.2	87
23	Synthesis of amorphous boride nanosheets by the chemical reduction of Prussian blue analogs for efficient water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23289-23294.	5.2	73
24	Chainmail catalyst of ultrathin P-doped carbon shell-encapsulated nickel phosphides on graphene towards robust and efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24107-24113.	5.2	44
25	Lead Oxide Enveloped in N-Doped Graphene Oxide Composites for Enhanced High-Rate Partial-State-of-Charge Performance of Lead-Acid Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11408-11413.	3.2	40
26	Metal/covalent-organic frameworks-based electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15905-15926.	5.2	258
27	<i>In situ</i> formation of Ni ₃ Se ₄ nanorod arrays as versatile electrocatalysts for electrochemical oxidation reactions in hybrid water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15653-15658.	5.2	84
28	Construction of Metal-Organic Framework/Conductive Polymer Hybrid for All-Solid-State Fabric Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18021-18028.	4.0	176
29	Formation of a Tubular Assembly by Ultrathin Ti _{0.8} Co _{0.2} N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogen-Air Fuel Cells. <i>ACS Catalysis</i> , 2018, 8, 8970-8975.	5.5	147
30	Corrosion of conductive polypyrrole: Galvanic interactions between polypyrrole and metal substrates. <i>Corrosion Science</i> , 2015, 91, 272-280.	3.0	19
31	Corrosion of conductive polypyrrole: Effects of possibly formed galvanic cells. <i>Corrosion Science</i> , 2014, 80, 318-330.	3.0	26
32	Corrosion of conductive polypyrrole: Effects of continuous cathodic and anodic polarisation. <i>Corrosion Science</i> , 2013, 69, 376-388.	3.0	39
33	Corrosion of conductive polypyrrole: Effects of environmental factors, electrochemical stimulation, and doping anions. <i>Corrosion Science</i> , 2012, 60, 50-58.	3.0	51
34	Mold-filling characteristics and solidification behavior of magnesium alloy in vacuum suction casting process. <i>Journal of Materials Science</i> , 2009, 44, 5644-5653.	1.7	4