

Hongming Sun

List of Publications by Year in descending order

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22
papers

3,071
citations

430442

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times ranked

4178
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Supported Transition-Metal-Based Electrocatalysts for Hydrogen and Oxygen Evolution. <i>Advanced Materials</i> , 2020, 32, e1806326.	11.1	986
2	Anion insertion enhanced electrodeposition of robust metal hydroxide/oxide electrodes for oxygen evolution. <i>Nature Communications</i> , 2018, 9, 2373.	5.8	336
3	Porous Multishelled Ni ₂ P Hollow Microspheres as an Active Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Chemistry of Materials</i> , 2017, 29, 8539-8547.	3.2	279
4	Boosting Activity on Co ₄ N Porous Nanosheet by Coupling CeO ₂ for Efficient Electrochemical Overall Water Splitting at High Current Densities. <i>Advanced Functional Materials</i> , 2020, 30, 1910596.	7.8	218
5	CoO _x /CoN _y nanoparticles encapsulated carbon-nitride nanosheets as an efficiently trifunctional electrocatalyst for overall water splitting and Zn-air battery. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119407.	10.8	169
6	Superhydrophilic amorphous Co-B-P nanosheet electrocatalysts with Pt-like activity and durability for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22062-22069.	5.2	156
7	Electrospun three dimensional Co/CoP@nitrogen-doped carbon nanofibers network for efficient hydrogen evolution. <i>Energy Storage Materials</i> , 2018, 12, 44-53.	9.5	152
8	Facile preparation of NH ₂ -functionalized black phosphorene for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2494-2499.	5.2	149
9	A review of transition-metal boride/phosphide-based materials for catalytic hydrogen generation from hydrolysis of boron-hydrides. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 760-772.	3.0	103
10	Atomic-scaled cobalt encapsulated in P,N-doped carbon sheaths over carbon nanotubes for enhanced oxygen reduction electrocatalysis under acidic and alkaline media. <i>Chemical Communications</i> , 2017, 53, 9862-9865.	2.2	87
11	Spinel oxide nanoparticles embedded in nitrogen-doped carbon nanofibers as a robust and self-standing bifunctional oxygen cathode for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24868-24876.	5.2	76
12	Bixbyite-type Ln ₂ O ₃ as promoters of metallic Ni for alkaline electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2022, 13, .	5.8	62
13	Size-controlled MoS ₂ nanodots supported on reduced graphene oxide for hydrogen evolution reaction and sodium-ion batteries. <i>Nano Research</i> , 2017, 10, 2210-2222.	5.8	50
14	Plasmon-promoted electrocatalytic water splitting on metal-semiconductor nanocomposites: the interfacial charge transfer and the real catalytic sites. <i>Chemical Science</i> , 2019, 10, 9605-9612.	3.7	50
15	Rational Construction of an Exceptionally Stable MOF Catalyst with Metal-Adeninate Vertices toward CO ₂ Cycloaddition under Mild and Cocatalyst-Free Conditions. <i>Chemistry - A European Journal</i> , 2019, 25, 11474-11480.	1.7	50
16	Rapid low-temperature synthesis of perovskite/carbon nanocomposites as superior electrocatalysts for oxygen reduction in Zn-air batteries. <i>Nano Research</i> , 2018, 11, 3282-3293.	5.8	44
17	Coupling NiCo Alloy and CeO ₂ to Enhance Electrocatalytic Hydrogen Evolution in Alkaline Solution. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000122.	2.7	36
18	Facile template-free hydrothermal fabrication of ZnO hollow microspheres for gas sensing applications. <i>Ceramics International</i> , 2014, 40, 16465-16473.	2.3	26

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19	Facile fabrication of multishelled Cr ₂ O ₃ hollow microspheres with enhanced gas sensitivity. <i>Materials Letters</i> , 2015, 140, 158-161.	1.3	18
20	Synthesis of porous Cr ₂ O ₃ hollow microspheres via a facile template-free approach. <i>Materials Letters</i> , 2015, 140, 35-38.	1.3	14
21	Promoting the formation of oxygen vacancies in ceria multishelled hollow microspheres by doping iron for enhanced ambient ammonia electro-synthesis. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1467-1473.	3.0	9
22	Hybrid Nanosheet Arrays: Boosting Activity on Co ₄ N Porous Nanosheet by Coupling CeO ₂ for Efficient Electrochemical Overall Water Splitting at High Current Densities (<i>Adv. Funct. Mater.</i> 32/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070213.	7.8	1