

Zhen Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,804
citations

394421

19
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

2837
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of proton exchange membrane water electrolysis on degradation mechanisms and mitigation strategies. <i>Journal of Power Sources</i> , 2017, 366, 33-55.	7.8	355
2	Boosting the oxygen evolution reaction using defect-rich ultra-thin ruthenium oxide nanosheets in acidic media. <i>Energy and Environmental Science</i> , 2020, 13, 5143-5151.	30.8	159
3	Wall-like hierarchical metal oxide nanosheet arrays grown on carbon cloth for excellent supercapacitor electrodes. <i>Nanoscale</i> , 2016, 8, 13273-13279.	5.6	144
4	Facile hydrothermal synthesis of NiMoO ₄ @CoMoO ₄ hierarchical nanospheres for supercapacitor applications. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20795-20804.	2.8	143
5	One-pot synthesis of hierarchically nanostructured Ni ₃ S ₂ dendrites as active materials for supercapacitors. <i>Electrochimica Acta</i> , 2014, 149, 316-323.	5.2	124
6	Three-dimensional-networked Ni-Co-Se nanosheet/nanowire arrays on carbon cloth: A flexible electrode for efficient hydrogen evolution. <i>Electrochimica Acta</i> , 2016, 200, 142-151.	5.2	121
7	Highly active and stable ruthenate pyrochlore for enhanced oxygen evolution reaction in acidic medium electrolysis. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 494-501.	20.2	109
8	3D Binder-free MoSe ₂ Nanosheets/Carbon Cloth Electrodes for Efficient and Stable Hydrogen Evolution Prepared by Simple Electrophoresis Deposition Strategy. <i>Scientific Reports</i> , 2016, 6, 22516.	3.3	75
9	Hydrothermal synthesis of Ni ₃ S ₂ /graphene electrode and its application in a supercapacitor. <i>RSC Advances</i> , 2014, 4, 37278-37283.	3.6	71
10	One-step electrochemical deposition of nickel sulfide/graphene and its use for supercapacitors. <i>Ceramics International</i> , 2014, 40, 8189-8193.	4.8	60
11	One-pot electrodeposition synthesis of ZnO/graphene composite and its use as binder-free electrode for supercapacitor. <i>Ceramics International</i> , 2015, 41, 4374-4380.	4.8	56
12	Mo modulation effect on the hydrogen binding energy of hexagonal-close-packed Ru for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2780-2786.	10.3	53
13	Hierarchical NiSe ₂ sheet-like nano-architectures as an efficient and stable bifunctional electrocatalyst for overall water splitting: Phase and morphology engineering. <i>Electrochimica Acta</i> , 2018, 279, 195-203.	5.2	49
14	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. <i>RSC Advances</i> , 2014, 4, 13673.	3.6	48
15	Hydrothermally synthesized FeCo ₂ O ₄ nanostructures: Structural manipulation for high-performance all solid-state supercapacitors. <i>Ceramics International</i> , 2018, 44, 120-127.	4.8	48
16	Tungsten Carbide Encapsulated in Grape-Like N-Doped Carbon Nanospheres: One-Step Facile Synthesis for Low-Cost and Highly Active Electrocatalysts in Proton Exchange Membrane Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25123-25132.	8.0	37
17	Benchmarking Phases of Ruthenium Dichalcogenides for Electrocatalysis of Hydrogen Evolution: Theoretical and Experimental Insights. <i>Small</i> , 2021, 17, e2007333.	10.0	35
18	Scalable Synthesis of a Ruthenium-Based Electrocatalyst as a Promising Alternative to Pt for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32171-32179.	8.0	33

#	ARTICLE	IF	CITATIONS
19	Scalable synthesis of hcp ruthenium-molybdenum nanoalloy as a robust bifunctional electrocatalyst for hydrogen evolution/oxidation. <i>Journal of Energy Chemistry</i> , 2022, 72, 176-185.	12.9	24
20	NaCl template-directed approach to ultrathin lamellar molybdenum phosphide-carbon hybrids for efficient hydrogen production. <i>Journal of Power Sources</i> , 2019, 438, 227048.	7.8	20
21	Accelerated kinetics of alkaline hydrogen evolution/oxidation reactions on dispersed ruthenium sites through N and S dual coordination. <i>Science China Chemistry</i> , 2022, 65, 611-618.	8.2	15
22	Pt atoms on doped carbon nanosheets with ultrahigh N content as a superior bifunctional catalyst for hydrogen evolution/oxidation. <i>Sustainable Energy and Fuels</i> , 2021, 5, 532-539.	4.9	12
23	CoSe ₂ nanosheets decorated on carbon fibers as efficient and stable catalysts for hydrogen evolution reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12300-12305.	2.2	10
24	Tuning the Dirac cone of the topological insulator Bi ₂ Te ₃ thin films by substitutional nonmagnetic atoms. <i>Physica B: Condensed Matter</i> , 2015, 456, 355-358.	2.7	3