

Houzhao Wan

List of Publications by Year in descending order

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papers

5,445
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117625

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6180
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn-dopant induced Octahedral Configuration Strongly Stabilizes Ni ₁₂ P ₅ Nanowires for Battery-Supercapacitor Hybrid Devices. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163897.	5.5	10
2	The Co-Improvement of Selectivity and Uniformity on NbO _x -Based Selector by Al-Doping. <i>IEEE Electron Device Letters</i> , 2022, 43, 870-873.	3.9	8
3	Synergistic regulation of hydrogen adsorption/desorption via dual interfaces of Cu/Ni/Ni(OH) ₂ toward efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14053-14062.	7.1	4
4	Favorable anion adsorption/desorption of high rate NiSe ₂ nanosheets/hollow mesoporous carbon for battery-supercapacitor hybrid devices. <i>Nano Research</i> , 2021, 14, 2574-2583.	10.4	52
5	Suppressing cathode dissolution via guest engineering for durable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7631-7639.	10.3	47
6	High-rate transition metal-based cathode materials for battery-supercapacitor hybrid devices. <i>Nanoscale Advances</i> , 2021, 3, 5222-5239.	4.6	18
7	Achieving low-energy consumption water-to-hydrogen conversion via urea electrolysis over a bifunctional electrode of hierarchical cuprous sulfide@nickel selenide nanoarrays. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 13-21.	9.4	33
8	2D-VN ₂ MXene as a novel anode material for Li, Na and K ion batteries: Insights from the first-principles calculations. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 51-58.	9.4	35
9	Improved uniformity and threshold voltage in NbO _x -ZrO ₂ selectors. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
10	Oxygen-Defect Enhanced Anion Adsorption Energy Toward Super-Rate and Durable Cathode for Ni-Zn Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 167.	27.0	52
11	Electronic coupling regulation in yolk-shell nanostructured nickel-cobalt diselenides with octahedral coordination for boosted oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28387-28396.	7.1	10
12	Co ^{2+/3+/4+} -Regulated Electron State of MnO for Superb Aqueous Zinc-Manganese Oxide Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003203.	19.5	144
13	Stability Optimization Strategies of Cathode Materials for Aqueous Zinc Ion Batteries: A Mini Review. <i>Frontiers in Chemistry</i> , 2021, 9, 828119.	3.6	6
14	Metal-organic framework-derived high conductivity Fe ₃ C with porous carbon on graphene as advanced anode materials for aqueous battery-supercapacitor hybrid devices. <i>Journal of Power Sources</i> , 2020, 448, 227403.	7.8	60
15	A durable VO ₂ (M)/Zn battery with ultrahigh rate capability enabled by pseudocapacitive proton insertion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1731-1740.	10.3	90
16	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. <i>ACS Nano</i> , 2020, 14, 2777-2787.	14.6	90
17	High conductivity Ni ₁₂ P ₅ nanowires as high-rate electrode material for battery-supercapacitor hybrid devices. <i>Chemical Engineering Journal</i> , 2020, 392, 123661.	12.7	78
18	Contribution of Cation Addition to MnO ₂ Nanosheets on Stable Co ₃ O ₄ Nanowires for Aqueous Zinc-Ion Battery. <i>Frontiers in Chemistry</i> , 2020, 8, 793.	3.6	18

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19	Zinc@Iron Batteries: Valence Engineering via In Situ Carbon Reduction on Octahedron Sites $Mn_{3-x}O_4$ for Ultra-Long Cycle Life Aqueous Zn-Iron Battery (Adv. Energy Mater.) Tj ETQ 1.1 0.784314 rgB	19.5	196
20	Simultaneous interfacial chemistry and inner Helmholtz plane regulation for superior alkaline hydrogen evolution. Energy and Environmental Science, 2020, 13, 3007-3013.	30.8	83
21	Valence Engineering via In Situ Carbon Reduction on Octahedron Sites $Mn_{3-x}O_4$ for Ultra-Long Cycle Life Aqueous Zn-Iron Battery. Advanced Energy Materials, 2020, 10, 2001050.	19.5	196
22	Ni-Co selenide nanowires supported on conductive wearable textile as cathode for flexible battery-supercapacitor hybrid devices. Chemical Engineering Journal, 2020, 400, 125955.	12.7	96
23	Structure and size control of FePtCu nanocatalysts for high performance hydrogen evolution reaction. Sustainable Energy and Fuels, 2020, 4, 2727-2733.	4.9	1
24	Dual-Descriptor Tailoring: The Hydroxyl Adsorption Energy-Dependent Hydrogen Evolution Kinetics of High-Valence State Doped Ni_3N in Alkaline Media. ACS Catalysis, 2019, 9, 9332-9338.	11.2	102
25	Colloidal $Cd_xZn_{1-x}S$ nanocrystals as efficient photocatalysts for H_2 production under visible-light irradiation. RSC Advances, 2019, 9, 4001-4007.	3.6	14
26	First-principles explorations of $Li_2S@V_2CT$ hybrid structure as cathode material for lithium-sulfur battery. Applied Surface Science, 2019, 489, 677-683.	6.1	39
27	Tailoring the electrocatalytic activity of bimetallic nickel-iron diselenide hollow nanochains for water oxidation. Nano Energy, 2018, 47, 275-284.	16.0	116
28	Three-dimensional cotton-like nickel nanowire@Ni-Co hydroxide nanosheet arrays as binder-free electrode for high-performance asymmetric supercapacitor. Nanotechnology, 2018, 29, 194003.	2.6	20
29	Mutually beneficial $Co_3O_4@MoS_2$ heterostructures as a highly efficient bifunctional catalyst for electrochemical overall water splitting. Journal of Materials Chemistry A, 2018, 6, 2067-2072.	10.3	178
30	Ultra-long life nickel nanowires@nickel-cobalt hydroxide nanoarrays composite pseudocapacitive electrode: Construction and activation mechanism. Electrochimica Acta, 2018, 259, 303-312.	5.2	37
31	Interface Synergistic Effect from Layered Metal Sulfides of MoS_2/SnS_2 van der Waals Heterojunction with Enhanced Li-Ion Storage Performance. Journal of Physical Chemistry C, 2018, 122, 24600-24608.	3.1	32
32	Core/shell Cu/FePtCu nanoparticles with face-centered tetragonal texture: An active and stable low-Pt catalyst for enhanced oxygen reduction. Nano Energy, 2018, 54, 280-287.	16.0	22
33	One pot synthesis of Ni ₁₂ P ₅ hollow nanocapsules as efficient electrode materials for oxygen evolution reactions and supercapacitor applications. Electrochimica Acta, 2017, 229, 380-386.	5.2	64
34	Understanding the electrochemical activation behavior of Co(OH) ₂ nanotubes during the ion-exchange process. Materials Today Energy, 2017, 4, 122-131.	4.7	25
35	Synergistic effect of two actions sites on cobalt oxides towards electrochemical water-oxidation. Nano Energy, 2017, 42, 98-105.	16.0	101
36	Nickel Nanowire@Porous NiCo ₂ O ₄ Nanorods Arrays Grown on Nickel Foam as Efficient Pseudocapacitor Electrode. Frontiers in Energy Research, 2017, 5, .	2.3	12

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37	Interface engineering: The Ni(OH) ₂ /MoS ₂ heterostructure for highly efficient alkaline hydrogen evolution. <i>Nano Energy</i> , 2017, 37, 74-80.	16.0	436
38	Intercalation of Glucose in NiMn-Layered Double Hydroxide Nanosheets: an Effective Path Way towards Battery-type Electrodes with Enhanced Performance. <i>Electrochimica Acta</i> , 2016, 216, 35-43.	5.2	98
39	Rapid self-assembly of porous square rod-like nickel persulfide via a facile solution method for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 301, 122-130.	7.8	123
40	Different charge-storage mechanisms in disulfide vanadium and vanadium carbide monolayer. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9909-9914.	10.3	76
41	Nickel Sulfide Nanoparticles Synthesized by Microwave-assisted Method as Promising Supercapacitor Electrodes: An Experimental and Computational Study. <i>Electrochimica Acta</i> , 2015, 182, 361-367.	5.2	99
42	Hierarchical Configuration of NiCo ₂ S ₄ Nanotube@Ni-Mn Layered Double Hydroxide Arrays/Three-Dimensional Graphene Sponge as Electrode Materials for High-Capacitance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15840-15847.	8.0	214
43	Hollow spiny shell of porous Ni-Mn oxides: A facile synthesis route and their application as electrode in supercapacitors. <i>Journal of Power Sources</i> , 2015, 286, 66-72.	7.8	28
44	Electrochemical double layer near polar reduced graphene oxide electrode: Insights from molecular dynamic study. <i>Electrochimica Acta</i> , 2015, 166, 142-149.	5.2	51
45	Facilely synthesized porous NiCo ₂ O ₄ flowerlike nanostructure for high-rate supercapacitors. <i>Journal of Power Sources</i> , 2014, 248, 28-36.	7.8	248
46	In situ growth of NiCo ₂ S ₄ nanotube arrays on Ni foam for supercapacitors: Maximizing utilization efficiency at high mass loading to achieve ultrahigh areal pseudocapacitance. <i>Journal of Power Sources</i> , 2014, 254, 249-257.	7.8	518
47	Activation Mechanism Study of Dandelion-Like Co ₉ S ₈ Nanotubes in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2014, 161, A996-A1000.	2.9	53
48	Direct Formation of Hedgehog-Like Hollow Ni-Mn Oxides and Sulfides for Supercapacitor Electrodes. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 857-862.	2.3	50
49	Hydrothermal synthesis of cobalt sulfide nanotubes: The size control and its application in supercapacitors. <i>Journal of Power Sources</i> , 2013, 243, 396-402.	7.8	193
50	Highly conductive NiCo ₂ S ₄ urchin-like nanostructures for high-rate pseudocapacitors. <i>Nanoscale</i> , 2013, 5, 8879.	5.6	848
51	Synergistic effect of Fe ₃ O ₄ /reduced graphene oxide nanocomposites for supercapacitors with good cycling life. <i>Electrochimica Acta</i> , 2013, 114, 674-680.	5.2	139
52	Rapid microwave-assisted synthesis NiMoO ₄ ·H ₂ O nanoclusters for supercapacitors. <i>Materials Letters</i> , 2013, 108, 164-167.	2.6	89
53	NiCo ₂ S ₄ porous nanotubes synthesis via sacrificial templates: high-performance electrode materials of supercapacitors. <i>CrystEngComm</i> , 2013, 15, 7649.	2.6	285