Houzhao Wan

List of Publications by Year in descending order

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Ηουζηλο Μ/λΝ

#	Article	IF	CITATIONS
1	Highly conductive NiCo2S4 urchin-like nanostructures for high-rate pseudocapacitors. Nanoscale, 2013, 5, 8879.	5.6	848
2	In situ growth of NiCo2S4 nanotube arrays on Ni foam for supercapacitors: Maximizing utilization efficiency at high mass loading to achieve ultrahigh areal pseudocapacitance. Journal of Power Sources, 2014, 254, 249-257.	7.8	518
3	Interface engineering: The Ni(OH) 2 /MoS 2 heterostructure for highly efficient alkaline hydrogen evolution. Nano Energy, 2017, 37, 74-80.	16.0	436
4	NiCo2S4 porous nanotubes synthesis via sacrificial templates: high-performance electrode materials of supercapacitors. CrystEngComm, 2013, 15, 7649.	2.6	285
5	Facilely synthesized porous NiCo2O4 flowerlike nanostructure for high-rate supercapacitors. Journal of Power Sources, 2014, 248, 28-36.	7.8	248
6	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. ACS Applied Materials & Interfaces, 2015, 7, 15840-15847.	8.0	214
7	Valence Engineering via In Situ Carbon Reduction on Octahedron Sites Mn ₃ O ₄ for Ultraâ€Long Cycle Life Aqueous Znâ€Ion Battery. Advanced Energy Materials, 2020, 10, 2001050.	19.5	196
8	Hydrothermal synthesis of cobalt sulfide nanotubes: The size control and its application in supercapacitors. Journal of Power Sources, 2013, 243, 396-402.	7.8	193
9	Mutually beneficial Co ₃ O 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
10	Co ^{2+/3+/4+} â€Regulated Electron State of Mnâ€O for Superb Aqueous Zincâ€Manganese Oxide Batteries. Advanced Energy Materials, 2021, 11, 2003203.	19.5	144
11	Synergistic effect of Fe3O4/reduced graphene oxide nanocomposites for supercapacitors with good cycling life. Electrochimica Acta, 2013, 114, 674-680.	5.2	139
12	Rapid self-assembly of porous square rod-like nickel persulfide via a facile solution method for high-performance supercapacitors. Journal of Power Sources, 2016, 301, 122-130.	7.8	123
13	Tailoring the electrocatalytic activity of bimetallic nickel-iron diselenide hollow nanochains for water oxidation. Nano Energy, 2018, 47, 275-284.	16.0	116
14	Dual-Descriptor Tailoring: The Hydroxyl Adsorption Energy-Dependent Hydrogen Evolution Kinetics of High-Valance State Doped Ni ₃ N in Alkaline Media. ACS Catalysis, 2019, 9, 9332-9338.	11.2	102
15	Synergistic effect of two actions sites on cobalt oxides towards electrochemical water-oxidation. Nano Energy, 2017, 42, 98-105.	16.0	101
16	Nickel Sulfide Nanoparticles Synthesized by Microwave-assisted Method as Promising Supercapacitor Electrodes: An Experimental and Computational Study. Electrochimica Acta, 2015, 182, 361-367.	5.2	99
17	Intercalation of Glucose in NiMn-Layered Double Hydroxide Nanosheets: an Effective Path Way towards Battery-type Electrodes with Enhanced Performance. Electrochimica Acta, 2016, 216, 35-43.	5.2	98
18	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

HOUZHAO WAN

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19	A durable VO ₂ (M)/Zn battery with ultrahigh rate capability enabled by pseudocapacitive proton insertion. Journal of Materials Chemistry A, 2020, 8, 1731-1740.	10.3	90
20	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. ACS Nano, 2020, 14, 2777-2787.	14.6	90
21	Rapid microwave-assisted synthesis NiMoO4·H2O nanoclusters for supercapacitors. Materials Letters, 2013, 108, 164-167.	2.6	89
22	Simultaneous interfacial chemistry and inner Helmholtz plane regulation for superior alkaline hydrogen evolution. Energy and Environmental Science, 2020, 13, 3007-3013.	30.8	83
23	High conductivity Ni12P5 nanowires as high-rate electrode material for battery-supercapacitor hybrid devices. Chemical Engineering Journal, 2020, 392, 123661.	12.7	78
24	Different charge-storage mechanisms in disulfide vanadium and vanadium carbide monolayer. Journal of Materials Chemistry A, 2015, 3, 9909-9914.	10.3	76
25	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
26	Metal–organic framework-derived high conductivity Fe3C with porous carbon on graphene as advanced anode materials for aqueous battery-supercapacitor hybrid devices. Journal of Power Sources, 2020, 448, 227403.	7.8	60
27	Activation Mechanism Study of Dandelion-Like Co ₉ S ₈ Nanotubes in Supercapacitors. Journal of the Electrochemical Society, 2014, 161, A996-A1000.	2.9	53
28	Favorable anion adsorption/desorption of high rate NiSe2 nanosheets/hollow mesoporous carbon for battery-supercapacitor hybrid devices. Nano Research, 2021, 14, 2574-2583.	10.4	52
29	Oxygen-Defect Enhanced Anion Adsorption Energy Toward Super-Rate and Durable Cathode for Ni–Zn Batteries. Nano-Micro Letters, 2021, 13, 167.	27.0	52
30	Electrochemical double layer near polar reduced graphene oxide electrode: Insights from molecular dynamic study. Electrochimica Acta, 2015, 166, 142-149.	5.2	51
31	Direct Formation of Hedgehogâ€Like Hollow Niâ€Mn Oxides and Sulfides for Supercapacitor Electrodes. Particle and Particle Systems Characterization, 2014, 31, 857-862.	2.3	50
32	Suppressing cathode dissolution <i>via</i> guest engineering for durable aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2021, 9, 7631-7639.	10.3	47
33	First-principles explorations of Li2S@V2CT hybrid structure as cathode material for lithium‑sulfur battery. Applied Surface Science, 2019, 489, 677-683.	6.1	39
34	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
35	2D-VN2 MXene as a novel anode material for Li, Na and K ion batteries: Insights from the first-principles calculations. Journal of Colloid and Interface Science, 2021, 593, 51-58.	9.4	35
36	Achieving low-energy consumption water-to-hydrogen conversion via urea electrolysis over a bifunctional electrode of hierarchical cuprous sulfide@nickel selenide nanoarrays. Journal of Colloid and Interface Science, 2021, 592, 13-21.	9.4	33

HOUZHAO WAN

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37	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
38	Hollow spiny shell of porous Ni–Mn oxides: A facile synthesis route and their application as electrode in supercapacitors. Journal of Power Sources, 2015, 286, 66-72.	7.8	28
39	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
40	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
41	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
42	Contribution of Cation Addition to MnO2 Nanosheets on Stable Co3O4 Nanowires for Aqueous Zinc-Ion Battery. Frontiers in Chemistry, 2020, 8, 793.	3.6	18
43	High-rate transition metal-based cathode materials for battery-supercapacitor hybrid devices. Nanoscale Advances, 2021, 3, 5222-5239.	4.6	18
44	Colloidal Cd _x Zn _{1â^'x} S nanocrystals as efficient photocatalysts for H ₂ production under visible-light irradiation. RSC Advances, 2019, 9, 4001-4007.	3.6	14
45	Nickel Nanowire@Porous NiCo2O4 Nanorods Arrays Grown on Nickel Foam as Efficient Pseudocapacitor Electrode. Frontiers in Energy Research, 2017, 5, .	2.3	12
46	Electronic coupling regulation in yolk-shell nanostructured nickel-cobalt diselenides with octahedral coordination for boosted oxygen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 28387-28396.	7.1	10
47	Mn-dopant induced Octahedral Configuration Strongly Stabilizes Ni12P5 Nanowires for Battery-Supercapacitor Hybrid Devices. Journal of Alloys and Compounds, 2022, 903, 163897.	5.5	10
48	The Co-Improvement of Selectivity and Uniformity on NbOâ,"-Based Selector by Al-Doping. IEEE Electron Device Letters, 2022, 43, 870-873.	3.9	8
49	Stability Optimization Strategies of Cathode Materials for Aqueous Zinc Ion Batteries: A Mini Review. Frontiers in Chemistry, 2021, 9, 828119.	3.6	6
50	Synergistic regulation of hydrogen adsorption/desorption via dual interfaces of Cu/Ni/Ni(OH)2 toward efficient hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 14053-14062.	7.1	4
51	Improved uniformity and threshold voltage in NbOx-ZrO2 selectors. Applied Physics Letters, 2021, 119, .	3.3	3
52	Zincâ€Ion Batteries: Valence Engineering via In Situ Carbon Reduction on Octahedron Sites Mn ₃ O ₄ for Ultraâ€Long Cycle Life Aqueous Znâ€Ion Battery (Adv. Energy Mater.) Tj E	ГQ ф9.© 0 r	gBiT /Overloc
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