

# Nickel sulfide-based energy storage materials for high-power capacitors

Rare Metals

40, 353-373

DOI: [10.1007/s12598-020-01470-w](https://doi.org/10.1007/s12598-020-01470-w)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of reduced graphene oxide supported nickel-cobalt-layered double hydroxide nanosheets for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 637-645.	5.0	156
2	Superior supercapacitive performance of Cu <sub>2</sub> MnSnS <sub>4</sub> asymmetric devices. <i>Nanoscale Advances</i> , 2021, 3, 486-498.	2.2	31
3	Hydrogen bond chemistry in Fe <sub>4</sub> [Fe(CN) <sub>6</sub> ] <sub>3</sub> host for aqueous NH <sub>4</sub> <sup>+</sup> batteries. <i>Chemical Engineering Journal</i> , 2021, 421, 127759.	6.6	57
4	Covalent modified reduced graphene oxide: Facile fabrication and high rate supercapacitor performances. <i>Electrochimica Acta</i> , 2021, 369, 137700.	2.6	20
5	Disclosure of charge storage mechanisms in molybdenum oxide nanobelts with enhanced supercapacitive performance induced by oxygen deficiency. <i>Rare Metals</i> , 2021, 40, 2447-2454.	3.6	36
6	Multi-interface collaboration of graphene cross-linked NiS-NiS <sub>2</sub> -Ni <sub>3</sub> S <sub>4</sub> polymorph foam towards robust hydrogen evolution in alkaline electrolyte. <i>Nano Research</i> , 2021, 14, 4857-4864.	5.8	61
7	Well-dispersed NiCoS <sub>2</sub> nanoparticles/rGO composite with a large specific surface area as an oxygen evolution reaction electrocatalyst. <i>Rare Metals</i> , 2021, 40, 3156-3165.	3.6	51
8	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303002.	0.7	65
9	Overlapped T-Nb <sub>2</sub> O <sub>5</sub> /Graphene Hybrid for a Quasi-Solid-State Asymmetric Supercapacitor with a High Rate Capacity. <i>Energy &amp; Fuels</i> , 2021, 35, 12546-12555.	2.5	4
10	Scalable synthesis of macroscopic porous carbon sheet anode for potassium-ion capacitor. <i>Chinese Chemical Letters</i> , 2022, 33, 1463-1467.	4.8	9
11	Rate Balance Design and Construction of a Conductive Ni <sub>0.5</sub> Co <sub>0.5</sub> MoO <sub>4</sub> Solid-Solution Microspherical Superstructure toward Advanced Hybrid Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 9470-9478.	2.5	7
12	Construction of NiCo <sub>2</sub> O <sub>4</sub> /O-g-C <sub>3</sub> N <sub>4</sub> Nanocomposites: A Battery-Type Electrode Material for High-Performance Supercapacitor Application. <i>ACS Applied Nano Materials</i> , 2021, 4, 10173-10184.	2.4	22
13	Hybrid materials based on pyrrhotite, troilite, and few-layered graphitic nanostructures: Synthesis, characterization, and cyclic voltammetry studies. <i>Applied Surface Science</i> , 2021, 563, 150327.	3.1	4
14	Multi-interfacial engineering of hierarchical CoNi <sub>2</sub> S <sub>4</sub> /WS <sub>2</sub> /Co <sub>9</sub> S <sub>8</sub> hybrid frameworks for robust all-pH electrocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120455.	10.8	50
15	Nickel sulfide/activated carbon nanotubes nanocomposites as advanced electrode of high-performance aqueous asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160979.	2.8	44
16	Boosting lithium-ion storage performance by ultrafine bimetal carbides nanoparticles coupled with Hollow-like carbon composites. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 676-683.	5.0	4
17	Editorial for advanced energy storage and conversion materials and technologies. <i>Rare Metals</i> , 2021, 40, 246-248.	3.6	19
18	Evolution and recent developments of high performance electrode material for supercapacitors: A review. <i>Journal of Energy Storage</i> , 2021, 44, 103366.	3.9	80

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19	Review on recent advances in nanostructured transition-metal-sulfide-based electrode materials for cathode materials of asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 430, 132745.	6.6	184
20	An Argyrophylla-like Nanorods $\text{Co}_9\text{S}_8/\text{WS}_2/\text{NF}$ Heterojunction with Electrons Redistribution as a Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemCatChem</i> , 2022, 14, .	1.8	4
21	Hierarchical $\text{Cu}_{0.92}\text{Co}_{2.08}\text{O}_4/\text{NiCo}$ -layered double hydroxide nanoarchitecture for asymmetric flexible storage device. <i>Materials Today Sustainability</i> , 2022, 17, 100097.	1.9	10
22	NiS/activated carbon composite derived from sodium lignosulfonate for long cycle-life asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163546.	2.8	19
23	Non-lithium-based metal ion capacitors: recent advances and perspectives. <i>Journal of Materials Chemistry A</i> , 2022, 10, 357-378.	5.2	34
24	PPy decorated $\text{Fe}_2\text{O}_3$ nanosheets as flexible supercapacitor electrodes. <i>Rare Metals</i> , 2022, 41, 1195-1201.	3.6	31
25	Single-Crystal Nano-Subunits Assembled Accordion-Shape $\text{WNb}_2\text{O}_8$ Framework with High Ionic/Electronic Conductivities towards Li-Ion Capacitors. <i>Small</i> , 2022, 18, e2107987.	5.2	28
26	Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance. <i>Coordination Chemistry Reviews</i> , 2022, 458, 214429.	9.5	52
27	Cobalt-based metal oxide coated with ultrathin ALD-MoS <sub>2</sub> as an electrode material for supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 435, 135066.	6.6	25
28	Enhanced Ionic Diffusion Interface in Hierarchical Metal-Organic Framework@Layered Double Hydroxide for High-Performance Hybrid Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
29	Synthesis of P-doped NiS as an electrode material for supercapacitors with enhanced rate capability and cycling stability. <i>New Journal of Chemistry</i> , 2022, 46, 6461-6469.	1.4	5
30	MXene-wrapped $\text{ZnCo}_2\text{S}_4$ core-shell nanospheres via electrostatic self-assembly as positive electrode materials for asymmetric supercapacitors. <i>Rare Metals</i> , 2022, 41, 2633-2644.	3.6	26
31	Rationally designed hierarchical tree-like Fe-Co-P@Ni(OH) <sub>2</sub> hybrid nanoarrays for high energy density asymmetric supercapacitors. <i>Applied Surface Science</i> , 2022, 588, 152857.	3.1	17
32	Design and synthesis of three-dimensional $\text{CoNi}_2\text{S}_4/\text{MoS}_2/\text{rGO}$ nanocomposites and its application in electrochemical supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164278.	2.8	18
33	Strongly coupled carbon quantum dots/NiCo-LDHs nanosheets on carbon cloth as electrode for high performance flexible supercapacitors. <i>Applied Surface Science</i> , 2022, 591, 153161.	3.1	45
34	Chitosan-Based Synthesis of O, N, and P Codoped Hierarchical Porous Carbon as Electrode Materials for Supercapacitors. <i>Energy &amp; Fuels</i> , 2021, 35, 20339-20348.	2.5	15
35	NiCo <sub>2</sub> S <sub>4</sub> decorated multilayer titanium carbide MXene electrode for asymmetric supercapacitor. <i>Ionics</i> , 2022, 28, 2979-2989.	1.2	17
36	Synergistical heterointerface engineering of Fe-Se nanocomposite for high-performance sodium-ion hybrid capacitors. <i>Rare Metals</i> , 2022, 41, 2470-2480.	3.6	10

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37	A facile method synthesizing marshmallow ZnS grown on Ti3C2 MXene for high-performance asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 50, 104652.	3.9	14
38	Laser synthesis of cobalt-doped Ni3S4-NiS/Ni as high-efficiency supercapacitor electrode and urea oxidation electrocatalyst. <i>Applied Surface Science</i> , 2022, 596, 153600.	3.1	19
39	NiCoSe <sub>4</sub> nanoparticles derived from nickel-cobalt Prussian blue analogues on N-doped reduced graphene oxide for high-performance asymmetric supercapacitors. <i>Nanotechnology</i> , 2022, 33, 345401.	1.3	4
40	Chalcogenides Based Nano Composites for Supercapacitors. <i>Advances in Material Research and Technology</i> , 2022, , 375-396.	0.3	1
41	Facile preparation of Nb2O5 microspheres and their excellent electrochemical performance in aqueous zinc-ion hybrid supercapacitors. <i>Rare Metals</i> , 2022, 41, 3129-3141.	3.6	13
42	A critical review on nickel sulfide-based electrode materials for supercapacitors. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2023, 48, 502-518.	6.8	8
43	Preparation and electrochemical capacitance of binder-free different micromorphology nickel sulfide on nickel foam for asymmetric supercapacitor. <i>Journal of Nanoparticle Research</i> , 2022, 24, .	0.8	3
44	Graphene oxide-based modified electrodes for high-performance supercapacitors. , 2022, , 239-266.		0
45	Binder-free ternary transition metal sulfides for energy storage applications. <i>International Journal of Energy Research</i> , 2022, 46, 15696-15708.	2.2	1
46	Enhanced ionic diffusion interface in hierarchical metal-organic framework@layered double hydroxide for high-performance hybrid supercapacitors. <i>Nano Research</i> , 2022, 15, 8983-8990.	5.8	19
47	Flower-like Ni3Sn2@Ni3S2 with core-shell nanostructure as electrode material for supercapacitors with high rate and capacitance. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 951-962.	5.0	7
48	Formation of monoclinic Bi-Bi2O3 nanosheet-assembled hollow spheres as a high-performance electrode for supercapacitor. <i>Ionics</i> , 2022, 28, 4769-4777.	1.2	3
49	Electrochemical supercapacitor performance of NiCo2O4 nanoballs structured electrodes prepared via hydrothermal route with varying reaction time. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 653, 129901.	2.3	24
50	A review on polyaniline and graphene nanocomposites for supercapacitors. <i>Polymer-Plastics Technology and Materials</i> , 2022, 61, 1871-1907.	0.6	30
51	Preparation of layered interconnected Si-Li2MnSiO4 electrode materials for the positive electrode of battery-type capacitors. <i>Ionics</i> , 2022, 28, 5189-5198.	1.2	1
52	Controllable construction of boron and nitrogen co-doping honeycomb porous carbon as promising materials for CO2 capture and supercapacitors. <i>Journal of Energy Storage</i> , 2022, 55, 105687.	3.9	5
53	Amorphous Ni-Co Binary Hydroxide Nanospheres with Super-Long Cycle Life and Ultrahigh Rate Capability as Asymmetric Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
54	Laser irradiation of graphite foils as robust current collectors for high-mass loaded electrodes of supercapacitors. <i>Rare Metals</i> , 2022, 41, 4094-4103.	3.6	4

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55	A porous carbon based on the surface and structural regulation of wasted lignin for long-cycle lithium-ion battery. <i>International Journal of Biological Macromolecules</i> , 2022, 222, 1414-1422.	3.6	12
56	K <sup>+</sup> intercalated MnO <sub>2</sub> with ultra-long cycling life for high-performance aqueous magnesium-ion hybrid supercapacitors. <i>Sustainable Energy and Fuels</i> , 2022, 6, 5290-5299.	2.5	8
57	Electrochemical performance of all-solid-state asymmetric supercapacitors based on Cu/Ni-Co(OH) <sub>2</sub> /Co <sub>4</sub> S <sub>3</sub> self-supported electrodes. <i>Chemical Engineering Journal</i> , 2023, 453, 139714.	6.6	24
58	Amorphous Ni-Co binary hydroxide with super-long cycle life and ultrahigh rate capability as asymmetric supercapacitors. <i>Nanotechnology</i> , 0, , .	1.3	1
59	In-situ grown of FeCo <sub>2</sub> O <sub>4</sub> @ 2D-Carbyne coated nickel foam - A newer nanohybrid electrode for high performance asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 56, 105943.	3.9	9
60	Recent progress in the development of smart supercapacitors. <i>SmartMat</i> , 2023, 4, .	6.4	39
61	Materials design and preparation for high energy density and high power density electrochemical supercapacitors. <i>Materials Science and Engineering Reports</i> , 2023, 152, 100713.	14.8	54
62	Promotive Effect of MWCNTs on $\hat{\pm}$ -NiS Microstructure and Their Application in Aqueous Asymmetric Supercapacitor. <i>Energy &amp; Fuels</i> , 2022, 36, 15210-15220.	2.5	6
63	A Lignin-Based Carbon Anode with Long-Cycle Stability for Li-Ion Batteries. <i>International Journal of Molecular Sciences</i> , 2023, 24, 284.	1.8	3
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65	Manganese (Sulfide/Oxide) based electrode materials advancement in supercapattery devices. <i>Materials Science in Semiconductor Processing</i> , 2023, 158, 107366.	1.9	22
66	On physical analysis of free Gibbs' energy based on topological indices for nickel sulfide. <i>Journal of Molecular Structure</i> , 2023, 1281, 135117.	1.8	2
67	Facile synthesis of copper cobalt sulfide and nickel hydroxide tube-like composites as battery-type active material of energy storage devices. <i>Journal of Energy Storage</i> , 2023, 65, 107330.	3.9	1
68	A Review on Thermal Behaviors and Thermal Management Systems for Supercapacitors. <i>Batteries</i> , 2023, 9, 128.	2.1	10
69	Tailoring the interface magnetron sputtered silver/tungsten disulfide for battery-supercapacitor hybrids: Electrochemical assessment of redox activity. <i>Journal of Energy Storage</i> , 2023, 66, 107333.	3.9	4