

# Progress and perspective of metal phosphide/carbon hybrid rechargeable ion batteries

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Investigation of the LiBH <sub>4</sub> Modification Effect on Cycling Stability and High-Rate Capacity of LiCoO <sub>2</sub> Cathodes. ACS Applied Energy Materials, 2021, 4, 6933-6941.	2.5	7
2	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. EcoMat, 2021, 3, e12141.	6.8	38
3	Epitaxially grown copper phosphide (Cu <sub>3</sub> P) nanosheets nanoarchitecture compared with film morphology for energy applications. Surfaces and Interfaces, 2021, 26, 101369.	1.5	2
4	In Situ Grown Ultrafine RuO <sub>2</sub> Nanoparticles on GeP <sub>5</sub> Nanosheets as the Electrode Material for Flexible Planar Micro-Supercapacitors with High Specific Capacitance and Cyclability. ACS Applied Materials & Interfaces, 2021, 13, 47560-47571.	4.0	11
5	Reduced graphene oxide supported ZIF-67 derived CoP enables high-performance potassium ion storage. Journal of Colloid and Interface Science, 2021, 604, 319-326.	5.0	32
6	In-situ operando and ex-situ study on light hydrocarbon-like-diesel and catalyst deactivation kinetic and mechanism study during deoxygenation of sludge oil. Chemical Engineering Journal, 2022, 429, 132206.	6.6	14
7	A MnS/FeS <sub>2</sub> heterostructure with a high degree of lattice matching anchored into carbon skeleton for ultra-stable sodium-ion storage. Journal of Materials Chemistry A, 2021, 9, 24024-24035.	5.2	38
8	Phase engineering of transition metal compounds for boosting lithium/sodium storage. APL Materials, 2021, 9, .	2.2	3
9	Organic/Inorganic Hybrid Fibers: Controllable Architectures for Electrochemical Energy Applications. Advanced Science, 2021, 8, e21102859.	5.6	32
10	Honeycomb-like carbon with doping of a transition-metal and nitrogen for highly efficient zinc-air battery and zinc-ion battery. Sustainable Energy and Fuels, 2021, 6, 188-196.	2.5	5
11	Facile approach to prepare Fe <sub>2</sub> P/C nanofiber heterostructure via electrospinning as highly performance self-supporting anode for Li/Na ion batteries. Electrochimica Acta, 2022, 403, 139682.	2.6	10
12	Functional integration of hierarchical core-shell architectures via vertically arrayed ultrathin CuSe nanosheets decorated on hollow CuS microcages targeting highly effective sodium-ion storage. Journal of Materials Chemistry A, 2021, 9, 27615-27628.	5.2	56
13	Surface Spinel-Coated and Polyanion-Doped Co-Free Li-Rich Layered Oxide Cathode for High-Performance Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2022, 61, 7464-7473.	1.8	13
14	Insightful view on the active sites of Ni/Ni <sub>3</sub> P for hydrogen evolution reaction. Applied Materials Today, 2022, 26, 101343.	2.3	8
15	Self-supporting ZnP <sub>2</sub> @N, P co-doped carbon nanofibers as high-performance anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2022, 897, 163235.	2.8	7
16	Self-assembly construction of hollow Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Submicro-Tubes towards efficient alkali metal ion storage. Chemical Engineering Journal, 2022, 433, 134506.	6.6	11
17	Polyrrole-encapsulated Cu <sub>2</sub> Se nanosheets in situ grown on Cu mesh for high stability sodium-ion battery anode. Chemical Engineering Journal, 2022, 433, 134477.	6.6	66
18	A gradient hexagonal-prism Fe <sub>3</sub> Se <sub>4</sub> @SiO <sub>2</sub> @C configuration as a highly reversible sodium conversion anode. Journal of Materials Chemistry A, 2022, 10, 4087-4099.	5.2	46

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19	Amorphous-crystalline cobalt-molybdenum bimetallic phosphide heterostructured nanosheets as Janus electrocatalyst for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7783-7792.	3.8	21
20	Tailoring the d-band centers of FeP nanobelt arrays by fluorine doping for enhanced hydrogen evolution at high current density. <i>Fuel</i> , 2022, 316, 123206.	3.4	24
21	Selenium-Doped Amorphous Black Phosphorus@TiO <sub>2</sub> /C Heterostructures for High-Performance Li/Na/K Ion Batteries. <i>Inorganic Chemistry</i> , 2022, 61, 3121-3131.	1.9	17
22	MoP <sub>2</sub> /C@rGO synthesised by phosphating the molybdenum-based metal organic framework and GO coating with excellent lithium ion storage performance. <i>Dalton Transactions</i> , 2022, 51, 6390-6398.	1.6	3
23	Nanostructured metal selenides as anodes for potassium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2087-2112.	2.5	8
24	Polydopamine-derived carbon layer anchoring NiCoP nanowire arrays for high-performance binder-free supercapacitor and electrocatalytic hydrogen evolution. <i>SusMat</i> , 2022, 2, 646-657.	7.8	19
25	Interlayer and doping engineering in partially graphitic hollow carbon nanospheres for fast sodium and potassium storage. <i>Chinese Chemical Letters</i> , 2023, 34, 107339.	4.8	1
26	MOF-derived Multi-Shelled NiP <sub>2</sub> Microspheres as High-Performance Anode Materials for Sodium/Potassium Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	7
27	Self-assembled epitaxy of Ga <sub>2</sub> Se <sub>3</sub> on the oxidized GaSe surface and atomic imaging of the Ga <sub>2</sub> Se <sub>3</sub> /GaSe heterostructure. <i>Applied Surface Science</i> , 2022, 586, 152774.	3.1	4
28	Boron nitride quantum dots coupled with CoP nanosheet arrays grown on carbon cloth for efficient nitrogen reduction reaction. <i>Chemical Engineering Journal</i> , 2022, 440, 135853.	6.6	16
29	Interface engineering of S-doped Co <sub>2</sub> P@Ni <sub>2</sub> P core-shell heterostructures for efficient and energy-saving water splitting. <i>Chemical Engineering Journal</i> , 2022, 439, 135743.	6.6	86
30	Synthesis of Arylene Ether-Type Hyperbranched Poly(triphenylamine) for Lithium Battery Cathodes. <i>Materials</i> , 2021, 14, 7885.	1.3	1
31	Electronic synergy to boost the performance of NiCoP-NWs@FeCoP-NSs anodes for flexible lithium-ion batteries. <i>Nanoscale</i> , 2022, 14, 8398-8408.	2.8	5
32	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. <i>EnergyChem</i> , 2022, 4, 100075.	10.1	25
33	Metal-Organic Framework-Derived Multidimensional Hierarchical Assembling Body with a Superhydrophilic and Superaerophobic Surface Toward Efficient Electrochemical Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6402-6413.	3.2	10
34	Synthesis of carbon-modified cobalt disphosphide as anode for sodium-ion storage. <i>Electrochimica Acta</i> , 2022, 423, 140611.	2.6	4
35	Mechanistic insight into the controlled synthesis of metal phosphide catalysts from annealing of metal oxides with sodium hypophosphite. <i>Nano Research</i> , 2022, 15, 10134-10141.	5.8	15
36	One-dimensional N-doped carbon nanofibers produced by pre-oxide treatment for effective lithium storage. <i>Dalton Transactions</i> , 0, , .	1.6	0

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37	Advances in Carbon Materials for Sodium and Potassium Storage. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	54
38	Recent advances in MOFs/MOF derived nanomaterials toward high-efficiency aqueous zinc ion batteries. <i>Coordination Chemistry Reviews</i> , 2022, 468, 214642.	9.5	55
39	Black glasses grafted micron silicon: a resilient anode material for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15960-15974.	5.2	15
40	Bi/3DPG composite structure optimization realizes high specific capacity and rapid sodium-ion storage. <i>Frontiers of Materials Science</i> , 2022, 16, .	1.1	1
41	Multi-interfacial engineering of IrO <sub>x</sub> clusters coupled porous zinc Phosphide-Zinc phosphate heterostructure for efficient water splitting. <i>Applied Surface Science</i> , 2022, 600, 154206.	3.1	8
42	Mn-doped FeS with larger lattice spacing as advance anode for sodium ion half/full battery. <i>Chemical Engineering Journal</i> , 2022, 450, 137960.	6.6	15
43	Facet-Selective hydrogen evolution on Rh <sub>2</sub> P electrocatalysts in pH-Universal media. <i>Chemical Engineering Journal</i> , 2022, 449, 137790.	6.6	13
44	NiP nanoparticles encapsulated in lamellar carbon as high-performance anode materials for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2022, 141, 107344.	2.3	6
45	Self-assembly of Ni <sub>2</sub> P/CoSe <sub>2</sub> heterostructure as bifunctional electrocatalysts for urea-water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 29593-29603.	3.8	7
46	Aliovalent doping engineering enables multiple modulations of FeS <sub>2</sub> anodes to achieve fast and durable sodium storage. <i>Journal of Materials Chemistry A</i> , 2022, 10, 21149-21160.	5.2	24
47	The thermal expansion exfoliation technology and lithium promoter assistant afford CuO/graphene as a high-performance anode for lithium-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 14201-14206.	1.6	2
48	Bimetallic-MOF derived nickel-iron phosphide nanosheets on carbon cloth for efficacious oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 36129-36138.	3.8	7
49	Construction of CoP/TiO <sub>2</sub> nanoarray for enhanced electrochemical nitrate reduction to ammonia. <i>Materials Today Physics</i> , 2022, 28, 100854.	2.9	53
50	Achieving a dendrite-free lithium metal anode through lithiophilic surface modification with sodium diethyldithiocarbamate. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 6498-6509.	3.0	3
51	Perovskite La <sup>1+</sup> K <sup>+</sup> CoO <sub>3</sub> (0 $\hat{\%}$ 0.5): a novel bifunctional OER/ORR electrocatalyst and supercapacitive charge storage electrode in a neutral Na <sub>2</sub> SO <sub>4</sub> electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 28584-28598.	1.3	7
52	Energy Materials: Fundamentals to Advanced Applications. , 2022, , 1-42.		0
53	Rational design of 3D porous niobium carbide MXene/rGO hybrid aerogels as promising anode for potassium-ion batteries with ultrahigh rate capability. <i>Nano Research</i> , 2023, 16, 2463-2473.	5.8	7
54	A simple electrospinning strategy to achieve the uniform distribution of ultra-fine CoP nanocrystals on carbon nanofibers for efficient lithium storage. <i>Carbon Letters</i> , 2023, 33, 203-213.	3.3	4

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55	Effect of Deformation on Safety and Capacity of Li-Ion Batteries. <i>Batteries</i> , 2022, 8, 235.	2.1	2
56	Constructing FeS <sub>2</sub> /TiO <sub>2</sub> p-n heterostructure encapsulated in one-dimensional carbon nanofibers for achieving highly stable sodium-ion battery. <i>Chemical Engineering Journal</i> , 2023, 455, 140824.	6.6	14
57	Deciphering the degradation discrepancy in Ni-rich cathodes with a diverse proportion of [003] crystallographic textures. , 2023, 5, .		20
58	Hofmann Ni-Pz-Ni Metal-Organic Frameworks Decorated by Graphene Oxide Enabling Lithium Storage with Pseudocapacitance Contribution. <i>Inorganic Chemistry</i> , 2023, 62, 238-246.	1.9	2
59	From amorphous to crystalline: a universal strategy for structure regulation of high-entropy transition metal oxides. <i>Chemical Science</i> , 2023, 14, 1787-1796.	3.7	5
60	MOFs-derived advanced heterostructure electrodes for energy storage. <i>Coordination Chemistry Reviews</i> , 2023, 479, 214985.	9.5	19
61	Excellent Metal Phosphide Electrode for Potassium Ion Hybrid Capacitors: The Case of Carbon Nanotube-Wrapped AgP <sub>2</sub> . <i>ACS Applied Energy Materials</i> , 2023, 6, 822-831.	2.5	3
62	Dual-functional vinylpyrrolidone electrolyte additive as anode surface leveler and cathode catalyst for lithium Metal-Oxygen batteries. <i>Chemical Engineering Journal</i> , 2023, 458, 141383.	6.6	9
63	Defective TiO <sub>2</sub> -Supported Dual-Schottky Heterostructure Boosts Fast Reaction Kinetics for High Performance Lithium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2023, 6, 1781-1798.	2.5	9
64	Electrospun carbon-based nanomaterials for next-generation potassium batteries. <i>Chemical Communications</i> , 2023, 59, 2381-2398.	2.2	8
65	H <sub>2</sub> O <sub>2</sub> -assisted partial oxidation for fabrication of Mn <sub>3</sub> O <sub>4</sub> /MnO@NC composite as a high-capacity anode for Li-ion batteries. <i>Materials Letters</i> , 2023, 336, 133900.	1.3	2
66	Heterointerface construction of carbon coated cobalt-iron phosphide space-confined in hollow porous carbon balls to promote internal/external sodium storage kinetics. <i>Journal of Electroanalytical Chemistry</i> , 2023, 932, 117219.	1.9	1
67	One-Dimensional RuO <sub>2</sub> -Nitrogen-Doped Carbon Composite for Energy Storage Application in an Alkaline Medium. <i>Energy &amp; Fuels</i> , 2023, 37, 5613-5622.	2.5	3
68	Nickel sulfide/nickel phosphide heterostructures anchored on porous carbon nanosheets with rapid electron/ion transport dynamics for sodium-ion half/full batteries. <i>Journal of Colloid and Interface Science</i> , 2023, 643, 574-584.	5.0	3
69	Modification of NiCoP nanocages anodes using epoxy-functionalized silane to improve electrochemical performance in lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	1
70	Boosting Thermal and Mechanical Properties: Achieving High-Safety Separator Chemically Bonded with Nano TiN Particles for High Performance Lithium-Ion Batteries. <i>Small</i> , 2023, 19, .	5.2	7