

Potassium-ion batteries: outlook on present and future

Energy and Environmental Science

14, 2186-2243

DOI: 10.1039/d0ee02917c

Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of morphology-improved single-crystalline iron silicide nanowires with enhanced physical characteristics. CrystEngComm, 2021, 23, 3270-3275.	2.6	7
2	A vanadium-based oxide-phosphate-pyrophosphate framework as a 4 V electrode material for K-ion batteries. Chemical Science, 2021, 12, 12383-12390.	7.4	10
3	Hollow sphere structured $\text{Co}_3\text{V}_2\text{O}_8$ as a half-conversion anode material with ultra-high pseudocapacitance effect for potassium ion batteries. Journal of Materials Chemistry A, 2021, 9, 21995-22001.	10.3	7
4	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. Energy and Environmental Science, 2021, 14, 5903-5910.	30.8	116
5	Boosting Efficient K-Ion Storage of Sb_2S_3 -Based Conversion-Alloying Dual Mechanism Anode via Synergistic Effect of Physical Protection and Chemical Bonding. SSRN Electronic Journal, 0, , .	0.4	0
6	Preparation and Characterization of a Composite Phase-Change Material with Silicone Rubber Foam as Carrier. Energy & Fuels, 2021, 35, 9683-9691.	5.1	8
7	Biodegradable Polyurethane Solid&Solid Phase Change Materials. ChemistrySelect, 2021, 6, 6280-6285.	1.5	7
8	Modified Melamine Foam-Based Flexible Phase Change Composites: Enhanced Photothermal Conversion and Shape Memory Properties. ACS Applied Polymer Materials, 2021, 3, 3321-3333.	4.4	24
9	Anchoring Carbon-Coated CoSe Nanoparticles on Hollow Carbon Nanocapsules for Efficient Potassium Storage. ACS Applied Energy Materials, 2021, 4, 6356-6363.	5.1	11
10	Perspective on Carbon Anode Materials for K^{+} Storage: Balancing the Intercalation&Controlled and Surface&Driven Behavior. Advanced Energy Materials, 2021, 11, 2100856.	19.5	60
11	Harmonized edge/graphitic&nitrogen doped carbon nanopolyhedron@nanosheet composite via salt&confined strategy for advanced K^{+} ion hybrid capacitors. Informa&Materials, 2021, 3, 891-903.	17.3	18
12	Recent Developments of Antimony-Based Anodes for Sodium- and Potassium-Ion Batteries. Transactions of Tianjin University, 2022, 28, 6-32.	6.4	14
13	Shape-stabilized and antibacterial composite phase change materials based on wood-based cellulose micro-framework, erythritol-urea or erythritol-thiourea for thermal energy storage. Solar Energy, 2021, 223, 19-32.	6.1	17
14	High internal phase emulsion templated-polystyrene/carbon nano fiber/hexadecanol composites phase change materials for thermal management applications. Journal of Energy Storage, 2021, 39, 102674.	8.1	21
15	Realizing Fast Diffusion Kinetics Based on Three-Dimensional Ordered Macroporous Cu_9S_5 @C for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 36982-36991.	8.0	27
16	Structural Evaluation of Coal-Tar-Pitch-Based Carbon Materials and Their Na^{+} Storage Properties. Coatings, 2021, 11, 948.	2.6	9
17	Large-scale synthesis of few-layered copper antimony sulfide nanosheets as electrode materials for high-rate potassium-ion storage. Journal of Colloid and Interface Science, 2022, 608, 984-994.	9.4	17
18	Bright Red-Emitting $\text{Ca}_3\text{LuAl}_3\text{B}_4\text{O}_{15}$: Ce^{3+} , Sm^{3+} Phosphors with High Thermal Stability for Elevating the Color Rendering of Near-Ultraviolet-Based White-Light-Emitting Diodes. ACS Applied Electronic Materials, 2021, 3, 4218-4227.	4.3	9

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19	Bio-Based Dual-Functionalized Phase Change Composite: Ultrafast Solar-to-Thermal Conversion and Reinforced Heat Storage Capacity. <i>Energy & Fuels</i> , 2021, 35, 16162-16173.	5.1	13
20	Balsa wood derived three-dimensional hierarchical porous carbon materials as an anode material for K-ion batteries. <i>Ionics</i> , 2021, 27, 5197-5206.	2.4	3
21	In situ formed robust submicron-sized nanocrystalline aggregates enable highly-reversible potassium ion storage. <i>Nano Energy</i> , 2021, 88, 106233.	16.0	16
22	Development and characterization of NaCl-KCl/Kaolin composites for thermal energy storage. <i>Solar Energy</i> , 2021, 227, 468-476.	6.1	23
23	Red phosphorus: A rising star of anode materials for advanced K-ion batteries. <i>Energy Storage Materials</i> , 2021, 42, 193-208.	18.0	22
24	Protein-derived 3D amorphous carbon with N, O doping as high rate and long lifespan anode for potassium ion batteries. <i>Journal of Power Sources</i> , 2021, 512, 230530.	7.8	20
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26	Bio-based flexible phase change composite film with high thermal conductivity for thermal energy storage. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 151, 106638.	7.6	38
27	Molten-salt synthesis of crystalline C ₃ N ₄ /C nanosheet with high sodium storage capability. <i>Chemical Engineering Journal</i> , 2021, 425, 131591.	12.7	20
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35	Designing core-shell metal-organic framework hybrids: toward high-efficiency electrochemical potassium storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26181-26188.	10.3	10
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40	In-Depth Mechanism Understanding for Potassium-Ion Batteries by Electroanalytical Methods and Advanced In Situ Characterization Techniques. <i>Small Methods</i> , 2021, 5, e2101130.	8.6	18
41	Application of expanded graphite-based materials for rechargeable batteries beyond lithium-ions. <i>Nanoscale</i> , 2021, 13, 19291-19305.	5.6	29
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43	Temperature-Dependent Growth of 36 Inner Nanotubes inside Nickelocene, Cobaltocene and Ferrocene-Filled Single-Walled Carbon Nanotubes. <i>Nanomaterials</i> , 2021, 11, 2984.	4.1	4
44	Experimental investigation for the thermal management of a coaxial electrical cable system using a form-stable low temperature phase change material. <i>Journal of Energy Storage</i> , 2021, 44, 103450.	8.1	7
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47	Manganese fluoride as non-battery type anode for high performance Li-ion capacitors. <i>Journal of Energy Storage</i> , 2021, , 103594.	8.1	2
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111	Synergetic Effect of Alkali-Site Substitution and Oxygen Vacancy Boosting Vanadate Cathode for Super-Stable Potassium and Zinc Storage. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
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122	Weak Cation-Solvent Interactions in Ether-Based Electrolytes Stabilizing Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	43
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129	Form-stable phase change materials enhanced photothermal conversion and thermal conductivity by Ag-expanded graphite. <i>Journal of Energy Storage</i> , 2022, 52, 105060.	8.1	19
130	Rational designing of MoSe ₂ nanosheets in carbon framework for high-performance potassium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 448, 137658.	12.7	25
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