

Research Development on K-Ion Batteries

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Outlook on K-Ion Batteries. <i>CheM</i> , 2020, 6, 2442-2460.	5.8	135
2	Pseudocapacitance-Induced High-Rate Potassium Storage in CoSe@NrGo Hybrid Nanosheets for Potassium-Ion Batteries. <i>Energy & Fuels</i> , 2020, 34, 10196-10202.	2.5	18
3	Advances in Organic Anode Materials for Na ⁺ /K ⁺ -Ion Rechargeable Batteries. <i>ChemSusChem</i> , 2020, 13, 4866-4884.	3.6	55
4	Ni ₂ P nanoparticle-incorporated reduced graphene oxide & carbon nanotubes to form flexible free-standing intertwining network film anodes for long-life sodium-ion storage. <i>Journal of Materials Science</i> , 2020, 55, 14491-14500.	1.7	5
5	Promise and reality of practical potassium ⁺ -based energy storage systems. <i>Engineering Reports</i> , 2020, 2, e12328.	0.9	5
6	A high-capacity cathode for rechargeable K-metal battery based on reversible superoxide-peroxide conversion. <i>National Science Review</i> , 2021, 8, nwa287.	4.6	12
7	KFSA/glyme electrolytes for 4 V-class K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23766-23771.	5.2	26
8	Model-Based Design of Graphite-Compatible Electrolytes in Potassium-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2651-2661.	8.8	88
9	Development of KPF ₆ /KFSA Binary-Salt Solutions for Long-Life and High-Voltage K-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34873-34881.	4.0	62
10	Stable Potassium Metal Anodes with an All-Aluminum Current Collector through Improved Electrolyte Wetting. <i>Advanced Materials</i> , 2020, 32, e2002908.	11.1	70
11	Core-Shell FeSe ₂ /C Nanostructures Embedded in a Carbon Framework as a Free Standing Anode for a Sodium Ion Battery. <i>Small</i> , 2020, 16, e2002200.	5.2	72
12	KTiOPO ₄ -structured electrode materials for metal-ion batteries: A review. <i>Journal of Power Sources</i> , 2020, 480, 228840.	4.0	38
13	Boosting Coulombic Efficiency of Conversion Reaction Anodes for Potassium-Ion Batteries via Confinement Effect. <i>Advanced Functional Materials</i> , 2020, 30, 2007712.	7.8	68
14	Vanadyl Phosphates A _x VOPO ₄ (A = Li, Na, K) as Multielectron Cathodes for Alkali-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002638.	10.2	26
15	Cobalt phosphide (Co ₂ P) encapsulated in nitrogen-rich hollow carbon nanocages with fast rate potassium ion storage. <i>Chemical Communications</i> , 2020, 56, 14889-14892.	2.2	25
16	Sodium-driven Rechargeable Batteries: An Effort towards Future Energy Storage. <i>Chemistry Letters</i> , 2020, 49, 1507-1516.	0.7	37
17	Electrochemical Activation of Li ₂ MnO ₃ Electrodes at 0 Å°C and Its Impact on the Subsequent Performance at Higher Temperatures. <i>Materials</i> , 2020, 13, 4388.	1.3	11
18	Recent progress in organic electrodes for zinc-ion batteries. <i>Journal of Semiconductors</i> , 2020, 41, 091704.	2.0	31

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19	Emerging Potassium-Ion Hybrid Capacitors. <i>ChemSusChem</i> , 2020, 13, 5837-5862.	3.6	65
20	Potassium-Oxygen Batteries: Significance, Challenges, and Prospects. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7849-7856.	2.1	18
21	Ball-Milling Strategy for Fast and Stable Potassium-Ion Storage in Antimony-Carbon Composite Anodes. <i>ChemElectroChem</i> , 2020, 7, 4587-4593.	1.7	6
22	Solid electrolyte interphase (SEI) in potassium ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 4583-4608.	15.6	187
23	Potassium-Ion Batteries: Key to Future Large-Scale Energy Storage?. <i>ACS Applied Energy Materials</i> , 2020, 3, 9478-9492.	2.5	99
24	Paving the Way toward Highly Efficient, High-Energy Potassium-Ion Batteries with Ionic Liquid Electrolytes. <i>Chemistry of Materials</i> , 2020, 32, 7653-7661.	3.2	58
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26	Aluminum electrolytes for Al dual-ion batteries. <i>Communications Chemistry</i> , 2020, 3, .	2.0	48
27	Potential application of p-n semiconductor capacitor with non-linear voltage-charge characteristic for secondary battery. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	1
28	Interface engineering of inorganic solid-state electrolytes for high-performance lithium metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 3780-3822.	15.6	96
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30	The Features and Progress of Electrolyte for Potassium Ion Batteries. <i>Small</i> , 2020, 16, e2004096.	5.2	98
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35	Designing Potassium Battery Salts through a Solvent-in-Anion Concept for Concentrated Electrolytes and Mimicking Solvation Structures. <i>Chemistry of Materials</i> , 2020, 32, 10423-10434.	3.2	16
36	Bi-Based Electrode Materials for Alkali Metal-Ion Batteries. <i>Small</i> , 2020, 16, e2004022.	5.2	71

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37	Quantifying the cost effectiveness of non-aqueous potassium-ion batteries. <i>Journal of Power Sources</i> , 2020, 464, 228228.	4.0	25
38	Initial investigation and evaluation of potassium metal as an anode for rechargeable potassium batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16718-16737.	5.2	44
39	Ultrastable Surface-Dominated Pseudocapacitive Potassium Storage Enabled by Edge-Enriched N-Doped Porous Carbon Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19460-19467.	7.2	148
40	Ultrastable Surface-Dominated Pseudocapacitive Potassium Storage Enabled by Edge-Enriched N-Doped Porous Carbon Nanosheets. <i>Angewandte Chemie</i> , 2020, 132, 19628-19635.	1.6	19
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46	High-Performance Cathode of Sodium-Ion Batteries Enabled by a Potassium-Containing Framework of $\text{K}_{0.5}\text{Mn}_{0.7}\text{Fe}_{0.2}\text{Ti}_{0.1}\text{O}_2$. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15313-15319.	4.0	16
47	Phase Change Materials for Electro-Thermal Conversion and Storage: From Fundamental Understanding to Engineering Design. <i>IScience</i> , 2020, 23, 101208.	1.9	55
48	Ordering and Structural Transformations in Layered K_xCrO_2 for K-Ion Batteries. <i>Chemistry of Materials</i> , 2020, 32, 6392-6400.	3.2	13
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56	The Rise of Prussian Blue Analogs: Challenges and Opportunities for High-Performance Cathode Materials in Potassium-Ion Batteries. <i>Small Structures</i> , 2021, 2, 2000054.	6.9	91
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58	The strategies to improve the layered-structure cathodes for aqueous multivalent metal-ion batteries. <i>Materials Today Energy</i> , 2021, 19, 100595.	2.5	16
59	Optimal utilization of fluoroethylene carbonate in potassium ion batteries. <i>Chemical Communications</i> , 2021, 57, 1607-1610.	2.2	11
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62	Enabling Mg-Based Ionic Liquid Electrolytes for Hybrid Dual-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 504-512.	2.4	14
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77	Electrolytes and Interphases in Potassium Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2003741.	11.1	181
78	Achieving complementary resistive switching and multi-bit storage goals by modulating the dual-ion reaction through supercritical fluid-assisted ammoniation. <i>Nanoscale</i> , 2021, 13, 14035-14040.	2.8	7
79	Research progress in transition metal chalcogenide based anodes for K-ion hybrid capacitor applications: a mini-review. <i>RSC Advances</i> , 2021, 11, 25450-25460.	1.7	37
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