

Young-Uk Park

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papers

3,424
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3,758
ext. citations

14.7
avg, IF

4.94
L-index

#	Paper	IF	Citations
32	Sodium Storage Behavior in Natural Graphite using Ether-based Electrolyte Systems. <i>Advanced Functional Materials</i> , 2015 , 25, 534-541	15.6	502
31	A new high-energy cathode for a Na-ion battery with ultrahigh stability. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13870-8	16.4	343
30	New iron-based mixed-polyanion cathodes for lithium and sodium rechargeable batteries: combined first principles calculations and experimental study. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10369-72	16.4	323
29	A combined first principles and experimental study on Na ₃ V ₂ (PO ₄) ₂ F ₃ for rechargeable Na batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20535		253
28	Unexpected discovery of low-cost maricite NaFePO ₄ as a high-performance electrode for Na-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 540-545	35.4	236
27	A Family of High-Performance Cathode Materials for Na-ion Batteries, Na ₃ (VO _{1-x} PO ₄) ₂ F _{1+2x} (0 ≤ x ≤ 1): Combined First-Principles and Experimental Study. <i>Advanced Functional Materials</i> , 2014 , 24, 4603-4614	15.6	206
26	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇) in a Na Rechargeable Battery. <i>Chemistry of Materials</i> , 2013 , 25, 3614-3622	9.6	174
25	SnO ₂ /graphene composite with high lithium storage capability for lithium rechargeable batteries. <i>Nano Research</i> , 2010 , 3, 813-821	10	171
24	Anomalous Jahn-Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3325-3335	35.4	114
23	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015 , 27, 6914-21	24	107
22	Neutron and X-ray Diffraction Study of Pyrophosphate-Based Li ₂ M ₂ MP ₂ O ₇ (M = Fe, Co) for Lithium Rechargeable Battery Electrodes. <i>Chemistry of Materials</i> , 2011 , 23, 3930-3937	9.6	92
21	Mn based olivine electrode material with high power and energy. <i>Chemical Communications</i> , 2010 , 46, 1305-7	5.8	73
20	Tailoring a fluorophosphate as a novel 4 V cathode for lithium-ion batteries. <i>Scientific Reports</i> , 2012 , 2, 704	4.9	73
19	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	72
18	Crumpled graphene paper for high power sodium battery anode. <i>Carbon</i> , 2016 , 99, 658-664	10.4	68
17	Extremely High Yield Conversion from Low-Cost Sand to High-Capacity Si Electrodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1400622	21.8	66
16	First-principles study on lithium metal borate cathodes for lithium rechargeable batteries. <i>Physical Review B</i> , 2011 , 83,	3.3	61

15	Synthesis of Multicomponent Olivine by a Novel Mixed Transition Metal Oxalate Coprecipitation Method and Electrochemical Characterization. <i>Chemistry of Materials</i> , 2010 , 22, 2573-2581	9.6	59
14	Novel transition-metal-free cathode for high energy and power sodium rechargeable batteries. <i>Nano Energy</i> , 2014 , 4, 97-104	17.1	57
13	LiFePO ₄ with an alluaudite crystal structure for lithium ion batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 830	35.4	57
12	Tailoring a New 4V-Class Cathode Material for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502147	21.47	52
11	Mg and Fe Co-doped Mn Based Olivine Cathode Material for High Power Capability. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A250	3.9	46
10	Study on structure and electrochemical properties of carbon-coated monoclinic Li ₃ V ₂ (PO ₄) ₃ using synchrotron based in situ X-ray diffraction and absorption. <i>Journal of Alloys and Compounds</i> , 2013 , 569, 76-81	5.7	36
9	Ion-exchange mechanism of layered transition-metal oxides: case study of LiNi _{0.5} Mn _{0.5} O ₂ . <i>Inorganic Chemistry</i> , 2014 , 53, 8083-7	5.1	34
8	Na ₃ V(PO ₄) ₂ : A New Layered-Type Cathode Material with High Water Stability and Power Capability for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 3683-3689	9.6	33
7	Alluaudite LiMnPO ₄ : a new Mn-based positive electrode for Li rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8632-8636	13	31
6	Electrochemical and ex-situ analysis on manganese oxide/graphene hybrid anode for lithium rechargeable batteries. <i>Journal of Materials Research</i> , 2011 , 26, 2665-2671	2.5	31
5	In Situ Tracking Kinetic Pathways of Li/Na Substitution during Ion-Exchange Synthesis of LiNaVOPOF. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12504-12516	16.4	18
4	Factors that Affect the Phase Behavior of Multi-Component Olivine (LiFexMnyCo _{1-x-y} PO ₄ ; 0 < x, y < 1). <i>Journal of the Electrochemical Society</i> , 2013 , 160, A444-A448	3.9	15
3	Invited paper: Preparation and electrochemical characterization of doped spinel LiMn _{1.88} Ge _{0.1} Li _{0.02} O ₄ cathode material. <i>Electronic Materials Letters</i> , 2011 , 7, 105-108	2.9	9
2	Charge/Discharge Mechanism of Multicomponent Olivine Cathode for Lithium Rechargeable Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2011 , 2, 14-19	3.2	9
1	Energy Storage: Sodium Storage Behavior in Natural Graphite using Ether-based Electrolyte Systems (Adv. Funct. Mater. 4/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 652-652	15.6	3