Young-Uk Park

List of Publications by Year
in descending order

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32 papers	4,171 citations	201575 27 h-index	414303 32 g-index
33 all docs	33 docs citations	33 times ranked	4770 citing authors

#	Article	IF	Citations
1	Sodium Storage Behavior in Natural Graphite using Etherâ€based Electrolyte Systems. Advanced Functional Materials, 2015, 25, 534-541.	7.8	625
2	New Iron-Based Mixed-Polyanion Cathodes for Lithium and Sodium Rechargeable Batteries: Combined First Principles Calculations and Experimental Study. Journal of the American Chemical Society, 2012, 134, 10369-10372.	6.6	395
3	A New High-Energy Cathode for a Na-Ion Battery with Ultrahigh Stability. Journal of the American Chemical Society, 2013, 135, 13870-13878.	6.6	393
4	A combined first principles and experimental study on Na3V2(PO4)2F3 for rechargeable Na batteries. Journal of Materials Chemistry, 2012, 22, 20535.	6.7	306
5	Unexpected discovery of low-cost maricite NaFePO₄as a high-performance electrode for Na-ion batteries. Energy and Environmental Science, 2015, 8, 540-545.	15.6	299
6	A Family of Highâ€Performance Cathode Materials for Naâ€ion Batteries, Na₃(VO_{1â^'x}PO₄)₂ F_{1+2x} (0 â‰	7.8	271
	24, 4603-4614.		
7	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate Na₄Fe₃(PO₄)₂(P₂O₇) in a Na Rechargeable Battery. Chemistry of Materials, 2013, 25, 3614-3622.	3.2	237
8	SnO2/graphene composite with high lithium storage capability for lithium rechargeable batteries. Nano Research, 2010, 3, 813-821.	5.8	178
9	Anomalous Jahnâ€“Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. Energy and Environmental Science, 2015, 8, 3325-3335.	15.6	175
10	Sodiumâ€ion Storage in Pyroproteinâ€Based Carbon Nanoplates. Advanced Materials, 2015, 27, 6914-6921.	11.1	120
11	Neutron and X-ray Diffraction Study of Pyrophosphate-Based Li_{2â€“x}MP₂O₇ (M = Fe, Co) for Lithium Rechargeable Battery Electrodes. Chemistry of Materials, 2011, 23, 3930-3937.	3.2	106
12	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. Nature Energy, 2017, 2, .	19.8	94
13	Tailoring a fluorophosphate as a novel 4 V cathode for lithium-ion batteries. Scientific Reports, 2012, 2, 704.	1.6	90
14	Mn based olivine electrode material with high power and energy. Chemical Communications, 2010, 46, 1305.	2.2	81
15	Crumpled graphene paper for high power sodium battery anode. Carbon, 2016, 99, 658-664.	5.4	81
16	Extremely High Yield Conversion from Lowâ€Cost Sand to Highâ€Capacity Si Electrodes for Liâ€ion Batteries. Advanced Energy Materials, 2014, 4, 1400622.	10.2	75
17	Novel transition-metal-free cathode for high energy and power sodium rechargeable batteries. Nano Energy, 2014, 4, 97-104.	8.2	71
18	First-principles study on lithium metal borate cathodes for lithium rechargeable batteries. Physical Review B, 2011, 83, .	1.1	69

#	Article	IF	Citations
19	Synthesis of Multicomponent Olivine by a Novel Mixed Transition Metal Oxalate Coprecipitation Method and Electrochemical Characterization. Chemistry of Materials, 2010, 22, 2573-2581.	3.2	66
20	Tailoring a New 4Vâ€Class Cathode Material for Naâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502147.	10.2	65
21	LiFePO4 with an alluaudite crystal structure for lithium ion batteries. Energy and Environmental Science, 2013, 6, 830.	15.6	61
22	Mg and Fe Co-doped Mn Based Olivine Cathode Material for High Power Capability. Journal of the Electrochemical Society, 2011, 158, A250.	1.3	52
23	Ion-Exchange Mechanism of Layered Transition-Metal Oxides: Case Study of LiNi_{0.5}Mn_{0.5}O₂. Inorganic Chemistry, 2014, 53, 8083-8087.	1.9	43
24	Study on structure and electrochemical properties of carbon-coated monoclinic Li3V2(PO4)3 using synchrotron based in situ X-ray diffraction and absorption. Journal of Alloys and Compounds, 2013, 569, 76-81.	2.8	41
25	Na₃V(PO₄)₂: A New Layered-Type Cathode Material with High Water Stability and Power Capability for Na-Ion Batteries. Chemistry of Materials, 2018, 30, 3683-3689.	3.2	41
26	Electrochemical and ex-situ analysis on manganese oxide/graphene hybrid anode for lithium rechargeable batteries. Journal of Materials Research, 2011, 26, 2665-2671.	1.2	39
27	Alluaudite LiMnPO4: a new Mn-based positive electrode for Li rechargeable batteries. Journal of Materials Chemistry A, 2014, 2, 8632-8636.	5.2	32
28	In Situ Tracking Kinetic Pathways of Li⁺/Na⁺ Substitution during Ion-Exchange Synthesis of Li_xNa_{1.5â€“x}VOPO₄F_{0.5}. Journal of the American Chemical Society, 2017, 139, 12504-12516.	6.6	28
29	Factors that Affect the Phase Behavior of Multi-Component Olivine (LiFe_xMn_yCo_{1-x-y}PO₄; 0) Tj ETQq1 1 0.784314 rgBT /O Reaction. Journal of the Electrochemical Society, 2013, 160, A444-A448.	1.3	16
30	Invited paper: Preparation and electrochemical characterization of doped spinel LiMn1.88Ge0.1Li0.02O4 cathode material. Electronic Materials Letters, 2011, 7, 105-108.	1.0	9
31	Charge/Discharge Mechanism of Multicomponent Olivine Cathode for Lithium Rechargeable Batteries. Journal of Electrochemical Science and Technology, 2011, 2, 14-19.	0.9	9
32	Energy Storage: Sodium Storage Behavior in Natural Graphite using Ether-based Electrolyte Systems (Adv. Funct. Mater. 4/2015). Advanced Functional Materials, 2015, 25, 652-652.	7.8	3