Young-Uk Park

List of Publications by Year in Descending Order

32 papers	3,424 citations	27 h-index	33 g-index
33 ext. papers	3,758 ext. citations	14.7 avg, IF	4.94 L-index

#	Paper	IF	Citations
32	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	9.6	33
31	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. *Nature Energy*, **2017**, 2,	62.3	72
30	In Situ Tracking Kinetic Pathways of Li/Na Substitution during Ion-Exchange Synthesis of LiNaVOPOF. *Journal of the American Chemical Society*, **2017**, 139, 12504-12516	16.4	18
29	Crumpled graphene paper for high power sodium battery anode. *Carbon*, **2016**, 99, 658-664	10.4	68
28	Tailoring a New 4V-Class Cathode Material for Na-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502147	21.87	52
27	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. *Advanced Materials*, **2015**, 27, 6914-21	24	107
26	Anomalous Jahn□eller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. *Energy and Environmental Science*, **2015**, 8, 3325-3335	35.4	114
25	Unexpected discovery of low-cost maricite NaFePO4 as a high-performance electrode for Na-ion batteries. *Energy and Environmental Science*, **2015**, 8, 540-545	35.4	236
24	Sodium Storage Behavior in Natural Graphite using Ether-based Electrolyte Systems. *Advanced Functional Materials*, **2015**, 25, 534-541	15.6	502
23	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	15.6	3
22	A Family of High-Performance Cathode Materials for Na-ion Batteries, Na3(VO1□PO4)2 F1+2x (0 □ x □1): Combined First-Principles and Experimental Study. *Advanced Functional Materials*, **2014**, 24, 4603-4614	15.6	206
21	Novel transition-metal-free cathode for high energy and power sodium rechargeable batteries. *Nano Energy*, **2014**, 4, 97-104	17.1	57
20	Alluaudite LiMnPO4: a new Mn-based positive electrode for Li rechargeable batteries. *Journal of Materials Chemistry A*, **2014**, 2, 8632-8636	13	31
19	Ion-exchange mechanism of layered transition-metal oxides: case study of LiNi(0.5)Mn(0.5)O□ *Inorganic Chemistry*, **2014**, 53, 8083-7	5.1	34
18	Extremely High Yield Conversion from Low-Cost Sand to High-Capacity Si Electrodes for Li-Ion Batteries. *Advanced Energy Materials*, **2014**, 4, 1400622	21.8	66
17	LiFePO4 with an alluaudite crystal structure for lithium ion batteries. *Energy and Environmental Science*, **2013**, 6, 830	35.4	57
16	A new high-energy cathode for a Na-ion battery with ultrahigh stability. *Journal of the American Chemical Society*, **2013**, 135, 13870-8	16.4	343

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15	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	5.7	36
14	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	9.6	174
13	Factors that Affect the Phase Behavior of Multi-Component Olivine (LiFexMnyCo1-x-yPO4; 0 . *Journal of the Electrochemical Society*, **2013**, 160, A444-A448	3.9	15
12	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, 10369-72	16.4	323
11	A combined first principles and experimental study on Na3V2(PO4)2F3 for rechargeable Na batteries. *Journal of Materials Chemistry*, **2012**, 22, 20535		253
10	Tailoring a fluorophosphate as a novel 4 V cathode for lithium-ion batteries. *Scientific Reports*, **2012** , 2, 704	4.9	73
9	First-principles study on lithium metal borate cathodes for lithium rechargeable batteries. *Physical Review B*, **2011**, 83,	3.3	61
8	Neutron and X-ray Diffraction Study of Pyrophosphate-Based Li2MP2O7 (M = Fe, Co) for Lithium Rechargeable Battery Electrodes. *Chemistry of Materials*, **2011**, 23, 3930-3937	9.6	92
7	Invited paper: Preparation and electrochemical characterization of doped spinel LiMn1.88Ge0.1Li0.02O4 cathode material. *Electronic Materials Letters*, **2011**, 7, 105-108	2.9	9
6	Mg and Fe Co-doped Mn Based Olivine Cathode Material for High Power Capability. *Journal of the Electrochemical Society*, **2011**, 158, A250	3.9	46
5	Electrochemical and ex-situ analysis on manganese oxide/graphene hybrid anode for lithium rechargeable batteries. *Journal of Materials Research*, **2011**, 26, 2665-2671	2.5	31
4	Charge/Discharge Mechanism of Multicomponent Olivine Cathode for Lithium Rechargeable Batteries. *Journal of Electrochemical Science and Technology*, **2011**, 2, 14-19	3.2	9
3	Synthesis of Multicomponent Olivine by a Novel Mixed Transition Metal Oxalate Coprecipitation Method and Electrochemical Characterization. *Chemistry of Materials*, **2010**, 22, 2573-2581	9.6	59
2	Mn based olivine electrode material with high power and energy. *Chemical Communications*, **2010**, 46, 1305-7	5.8	73
1	SnO2/graphene composite with high lithium storage capability for lithium rechargeable batteries. *Nano Research*, **2010**, 3, 813-821	10	171