Sun-Ho Kang

List of Publications by Year
in descending order

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32 papers	5,737 citations	304743 22 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	4547 citing authors

#	Article	IF	Citations
1	Evidence of reversible oxygen participation in anomalously high capacity Li- and Mn-rich cathodes for Li-ion batteries. Nano Energy, 2016, 21, 172-184.	16.0	127
2	Examining Hysteresis in Composite xLi₂MnO₃Â·(1â€“x)LiMO₂ Cathode Structures. Journal of Physical Chemistry C, 2013, 117, 6525-6536.	3.1	234
3	Electrochemical properties of nanosized Li-rich layered oxide as positive electrode materials for Li-Ion batteries. RSC Advances, 2013, 3, 8527.	3.6	27
4	Composite â€˜Layered-Layered-Spinelâ€™ Cathode Structures for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A31-A38.	2.9	115
5	A Volume Averaged Approach to the Numerical Modeling of Phase-Transition Intercalation Electrodes Presented for Li_xC₆. Journal of the Electrochemical Society, 2012, 159, A2029-A2037.	2.9	86
6	Countering the Voltage Decay in High Capacity xLi₂MnO₃â€¢(1â€“x)LiMO₂Electrodes (M=Mn, Ni, Co) for Li⁺-Ion Batteries. Journal of the Electrochemical Society, 2012, 159, A781-A790.	2.9	305
7	Designing High-Capacity, Lithium-Ion Cathodes Using X-ray Absorption Spectroscopy. Chemistry of Materials, 2011, 23, 5415-5424.	6.7	88
8	xLi2MnO3Â·(1â^'x)LiMO2 blended with LiFePO4 to achieve high energy density and pulse power capability. Journal of Power Sources, 2011, 196, 9702-9707.	7.8	71
9	Enabling Sodium Batteries Using Lithiumâ€Substituted Sodium Layered Transition Metal Oxide Cathodes. Advanced Energy Materials, 2011, 1, 333-336.	19.5	397
10	Study of Li1+x(Mn4/9Co1/9Ni4/9)1-xO2 Cathode Materials for Vehicle Battery Applications. Journal of the Electrochemical Society, 2011, 158, A936.	2.9	23
11	Autogenic reactions for preparing carbon-encapsulated, nanoparticulate TiO2 electrodes for lithium-ion batteries. Journal of Power Sources, 2010, 195, 5039-5043.	7.8	49
12	High-energy and high-power Li-rich nickel manganese oxide electrode materials. Electrochemistry Communications, 2010, 12, 1618-1621.	4.7	87
13	Structural complexity of layered-spinel composite electrodes for Li-ion batteries. Journal of Materials Research, 2010, 25, 1601-1616.	2.6	34
14	Enhancing the rate capability of high capacity xLi2MnO3Â·(1â^'x)LiMO2 (M=Mn, Ni, Co) electrodes by Liâ€“Niâ€“PO4 treatment. Electrochemistry Communications, 2009, 11, 748-751.	4.7	306
15	Structural and Electrochemical Characterization of Composite Layered-Spinel Electrodes Containing Ni and Mn for Li-Ion Batteries. Journal of the Electrochemical Society, 2009, 156, A730.	2.9	82
16	Investigating the first-cycle irreversibility of lithium metal oxide cathodes for Li batteries. Journal of Materials Science, 2008, 43, 4701-4706.	3.7	92
17	First-cycle irreversibility of layered Liâ€“Niâ€“Coâ€“Mn oxide cathode in Li-ion batteries. Electrochimica Acta, 2008, 54, 684-689.	5.2	62
18	Effects of Li Content on Structure and Electrochemical Properties of Li[sub 1+x](Ni[sub 0.5]Mn[sub) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Society, 2007, 154, A268.	2.9	46

#	Article	IF	Citations
19	Li2MnO3-stabilized LiMO2 (M = Mn, Ni, Co) electrodes for lithium-ion batteries. Journal of Materials Chemistry, 2007, 17, 3112.	6.7	1,817
20	Demonstrating Oxygen Loss and Associated Structural Reorganization in the Lithium Battery Cathode Li[Ni0.2Li0.2Mn0.6]O2. Journal of the American Chemical Society, 2006, 128, 8694-8698.	13.7	1,406
21	Co-Doping Effect of Mn and Y on Charge and Mass Transport Properties of BaTiO3. Journal of Electroceramics, 2004, 13, 785-791.	2.0	19
22	High Temperature Transport Properties and Reaction Kinetics of (C_{e_y}U_{t-y})O_{2+x}. Journal of Nuclear Science and Technology, 2002, 39, 780-783.	1.3	0
23	Electrical conductivity of (Er,U)O2+x and (Ce,U)O2+x. Journal of Physics and Chemistry of Solids, 2002, 63, 773-780.	4.0	11
24	Effect of Ball-Milling on 3-V Capacity of Lithiumâ^'Manganese Oxospinel Cathodes. Chemistry of Materials, 2001, 13, 1758-1764.	6.7	95
25	Phase Stability of the System Mgâ€"Feâ€"O. Journal of Solid State Chemistry, 2000, 149, 33-40.	2.9	15
26	Non-stoichiometry, electrical conductivity and defect structure of hyper-stoichiometric UO2+x at 1000Â°C. Journal of Nuclear Materials, 2000, 277, 339-345.	2.7	18
27	Li[Mn[sub 2]]O[sub 4] Spinel Cathode Material Showing No Capacity Fading in the 3 V Range. Journal of the Electrochemical Society, 2000, 147, 3621.	2.9	62
28	The effect of nonstoichiometry (Î´) on the magnetic properties of (Mg[sub 0.22]Mn[sub 0.07]Fe[sub) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	29
29	Nonstoichiometry (Î´) and High-Temperature Thermodynamic Properties of (Mg0.22Mn0.07Fe0.71)3â^'Î´O4 Ferrite Spinel. Journal of Solid State Chemistry, 1999, 145, 276-282.	2.9	8
30	Li[Li[sub y]Mn[sub 2â^'y]]O[sub 4] Spinel Cathode Material Prepared by a Solution Method. Electrochemical and Solid-State Letters, 1999, 3, 536.	2.2	11
31	Nonstoichiometry and lattice parameter of (Mg_{0.22}Mn_{0.07}Fe_{0.71})_{3â€"Î´}O₄ ferrite. Journal of Materials Research, 1999, 14, 4070-4074.	2.6	4
32	Composition (x) Dependence of Nonstoichiometry (Î´) in Ferrite Spinel (MgxFe1â^'x)3â^'Î´O4. Journal of Solid State Chemistry, 1998, 139, 128-134.	2.9	11