Kingo Ariyoshi

List of Publications by Year in descending order

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Version: 2024-02-01

		304701	233409
61	2,041	22	45
papers	citations	h-index	g-index

62	62	62	1951
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Topotactic Two-Phase Reactions of Li[Ni[sub 1/2]Mn[sub 3/2]]O[sub 4] (P4[sub 3]32) in Nonaqueous Lithium Cells. Journal of the Electrochemical Society, 2004, 151, A296.	2.9	325
2	High-capacity lithium insertion materials of lithium nickel manganese oxides for advanced lithium-ion batteries: toward rechargeable capacity more than 300 mA h gâˆ'1. Journal of Materials Chemistry, 2011, 21, 10179.	6.7	325
3	Zero-strain insertion mechanism of Li[Li1/3Ti5/3]O4 for advanced lithium-ion (shuttlecock) batteries. Electrochimica Acta, 2005, 51, 1125-1129.	5.2	204
4	Synthesis and characterization of 5 V insertion material of Li[FeyMn2âˆ'y]O4 for lithium-ion batteries. Electrochimica Acta, 2001, 46, 2327-2336.	5.2	132
5	Three-volt lithium-ion battery with Li[Ni1/2Mn3/2]O4 and the zero-strain insertion material of Li[Li1/3Ti5/3]O4. Journal of Power Sources, 2003, 119-121, 959-963.	7.8	99
6	Special Issue Ceramics Integration. Synthesis and Characterization of Li[Ni1/2Mn3/2]O4 by Two-Step Solid State Reaction.. Journal of the Ceramic Society of Japan, 2002, 110, 501-505.	1.3	66
7	Effect of Primary Particle Size upon Polarization and Cycling Stability of 5-V Lithium Insertion Material of Li[Ni[sub 1âˆ•2]Mn[sub 3âˆ•2]]O[sub 4]. Journal of the Electrochemical Society, 2011, 158, A281.	2.9	63
8	Lithium Aluminum Manganese Oxide Having Spinel-Framework Structure for Long-Life Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2006, 9, A557.	2.2	60
9	Materials Strategy for Advanced Lithium-Ion (Shuttlecock) Batteries: Lithium Nickel Manganese Oxides with or without Cobalt. Electrochemistry, 2005, 73, 2-11.	1.4	53
10	Conceptual design for 12V â€œlead-freeâ€•accumulators for automobile and stationary applications. Journal of Power Sources, 2007, 174, 1258-1262.	7.8	51
11	Utilizing Environmental Friendly Iron as a Substitution Element in Spinel Structured Cathode Materials for Safer High Energy Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501662.	19.5	35
12	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mtext>SR</mml:mtext><mml:mo>:</mml:mo><mml:mtext>LiCrO</mml:mtext><mml:mn>2</mml:mn></mml:mrow></mml:math> of local magnetic order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiCrO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2009, 79, .	3.2	34
13	Extending Cycle Life of Lithium-Ion Batteries Consisting of Lithium Insertion Electrodes: Cycle Efficiency Versus Ah-Efficiency. Journal of the Electrochemical Society, 2011, 158, A1243.	2.9	33
14	Characterization of Lithium Insertion Electrodes by Precision Dilatometer: Area-Specific Deformation of Single Electrode. Journal of the Electrochemical Society, 2014, 161, A1388-A1393.	2.9	33
15	High dimensional stability of LiCoMnO4 as positive electrodes operating at high voltage for lithium-ion batteries with a long cycle life. Electrochimica Acta, 2018, 260, 498-503.	5.2	32
16	Degradation mechanism of LiCoO2 under float charge conditions and high temperatures. Electrochimica Acta, 2019, 320, 134596.	5.2	30
17	Improvement of float charge durability for LiCoO2 electrodes under high voltage and storage temperature by suppressing O1-Phase transition. Journal of Power Sources, 2020, 463, 228127.	7.8	29
18	Steady-state polarization measurements of lithium insertion electrodes for high-power lithium-ion batteries. Journal of Solid State Electrochemistry, 2008, 12, 979-985.	2.5	28

#	Article	IF	Citations
19	Quantum magnetic order in the triangular lattice of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Li</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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37	Rate capability of carbon-free lithium titanium oxide electrodes related to formation of electronic conduction paths observed by color change. Journal of Power Sources, 2019, 430, 150-156.	7.8	9
38	Reaction Mechanism and Kinetic Analysis of the Solid-State Reaction to Synthesize Single-Phase Li2Co2O4 Spinel. Journal of Physical Chemistry C, 2020, 124, 8170-8177.	3.1	9
39	Examining the Long-Term Cyclabilities of Li[Ni_{1/2}Mn_{3/2}]O₄ and Li[Li_{0.1}Al_{0.1}Mn_{1.8}]O₄ Using a Full-Cell Configuration Including LTO-Counter Electrodes with Extra Capacity. Journal of the Electrochemical Society, 2020, 167, 060532.	2.9	9
40	An Approach to 12-V Lead-free Batteries: High Temperature 3600-cycle Examinations on a 2.5-V LTO/LAMO Battery. Chemistry Letters, 2009, 38, 1202-1203.	1.3	8
41	Comparative Measurements of Side-Reaction Currents of Li[Li1/3Ti5/3]O4 and Li[Li0.1Al0.1Mn1.8]O4 Electrodes in Lithium-Ion Cells and Symmetric Cells. Journal of the Electrochemical Society, 2019, 166, A3314-A3318.	2.9	8
42	Relationship between changes in ionic radius and lattice dimension of lithium manganese oxide spinels during lithium insertion/extraction. Solid State Ionics, 2019, 343, 115077.	2.7	8
43	Mechanism of Mg extraction from MgMn2O4 during acid digestion. Physical Chemistry Chemical Physics, 2020, 22, 4677-4684.	2.8	8
44	Quantification analysis and kinetic modeling of crosstalk reactions in lithium-ion batteries using a four-electrode cell. Journal of Electroanalytical Chemistry, 2022, 916, 116383.	3.8	8
45	Clarification of particle size dependence on the rate capabilities of Li[Ni1/2Mn3/2]O4 materials and electrodes by the dilute electrode method. Journal of Power Sources, 2021, 509, 230349.	7.8	7
46	Title is missing!. Hyperfine Interactions, 2002, 139/140, 67-76.	0.5	6
47	Elucidation of the origin of voltage hysteresis in xLi2MnO3â^™(1â^'x)LiCoO2 using backstitch charge-discharge method. Electrochimica Acta, 2020, 334, 135623.	5.2	6
48	Self-discharge tests to measure side-reaction currents of a Li[Li1/3Ti5/3]O4 electrode. Journal of Electroanalytical Chemistry, 2020, 864, 114110.	3.8	6
49	Intragranular Fracture Mechanism of Highly Crystalline Lithium Manganese Oxide during Lithium Insertion/Extraction Reactions. ACS Applied Energy Materials, 2021, 4, 8142-8149.	5.1	6
50	Effect of Electronic Conductivity on the Polarization Behavior of Li[Li1/3Ti5/3]O4 Electrodes. Journal of the Electrochemical Society, 2021, 168, 070555.	2.9	5
51	Dilatometric study of thickness change of lithium-metal electrode during cycling. Journal of Power Sources, 2022, 533, 231360.	7.8	5
52	Electronic and magnetic properties of novel layered cobalt dioxides A x CoO2 with AÂ=ÂLi, Na, and K. Journal of Materials Science: Materials in Electronics, 2008, 19, 883-893.	2.2	4
53	Quantitative Analysis of Large Voltage Hysteresis of Lithium Excess Materials by Backstitch Charge and Discharge Method. Journal of the Electrochemical Society, 2018, 165, A2675-A2681.	2.9	4
54	Cooperative Jahnâ€“Teller transition in Li[Li x Mn2â€“x]O4: a muon-spin rotaion/relaxation (Î¼SR) view. Journal of Materials Science: Materials in Electronics, 2008, 19, 875-882.	2.2	3

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55	Correlation between capacity loss and increase in polarization in 5ÂV lithium-insertion material of Li[Ni1/2Mn3/2]O4. Solid State Ionics, 2021, 371, 115752.	2.7	3
56	Voltage decay for lithium-excess material of Li[Li1/5Co2/5Mn2/5]O2 during cycling analyzed via backstitch method. Journal of Solid State Electrochemistry, 2022, 26, 1519-1526.	2.5	2
57	Dynamic Elucidation of Lithium Insertion Reaction into MgMn₂O₄ Spinel. Journal of the Electrochemical Society, 2022, 169, 060505.	2.9	2
58	Synthesis Optimization of Electrochemically Active LiCoMnO₄ for High-Voltage Lithium-Ion Batteries. Energy & Fuels, 2021, 35, 13449-13456.	5.1	1
59	Similarity between the redox potentials of 3d transition-metal ions in polyanionic insertion materials and aqueous solutions. Physical Chemistry Chemical Physics, 2022, , .	2.8	1
60	Experimental Measurement and Quantification of the Local Cell Reaction in Blended Lithium Insertion Electrodes. ChemElectroChem, 2022, 9, .	3.4	1
61	Synthesis and electrochemical properties of a cubic polymorph of LiNi1/2Mn1/2O2 with a spinel framework. Journal of Solid State Electrochemistry, 2022, 26, 257.	2.5	0