Kwangjin Park

List of Publications by Year
in descending order

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37 papers	1,143 citations	361296 20 h-index	395590 33 g-index
37 all docs	37 docs citations	37 times ranked	1622 citing authors

#	Article	IF	Citations
1	Energy density improvement by controlling the properties of conductive agents in Niâ€rich cathodes. International Journal of Energy Research, 2022, 46, 2073-2080.	2.2	8
2	A Synergistic Effect of Na⁺ and Al³⁺ Dual Doping on Electrochemical Performance and Structural Stability of LiNi_{0.88}Co_{0.08}Mn_{0.04}O₂ Cathodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5168-5176.	4.0	44
3	Hybrid dual conductor on Niâ€rich NCM for superior electrochemical performance in Lithiumâ€ion batteries. International Journal of Energy Research, 2022, 46, 7389-7398.	2.2	9
4	Multifunctional surface modification with Co-free spinel structure on Ni-rich cathode material for improved electrochemical performance. Journal of Alloys and Compounds, 2022, 918, 165454.	2.8	6
5	Revealing the structural degradation mechanism of the Ni-rich cathode surface: How thick is the surface?. Journal of Power Sources, 2021, 490, 229542.	4.0	17
6	Y-doped P2-type Na0.67Ni0.33Mn0.67O2: A sodium-ion battery cathode with fast charging and enhanced cyclic performance. Journal of Alloys and Compounds, 2021, 874, 160027.	2.8	16
7	High-Ni cathode material improved with Zr for stable cycling of Li-ion rechargeable batteries. RSC Advances, 2020, 10, 26756-26764.	1.7	31
8	l-Tryptophan: Antioxidant as a Film-Forming Additive for a High-Voltage Cathode. Langmuir, 2020, 36, 2823-2828.	1.6	2
9	High-Performance and Industrially Feasible Ni-Rich Layered Cathodematerials By Integrating Coherent Interphase. ECS Meeting Abstracts, 2020, MA2020-02, 341-341.	0.0	0
10	Shape control of hierarchical lithium cobalt oxide using biotemplates for connected nanoparticles. Journal of Power Sources, 2019, 436, 226836.	4.0	11
11	Structure- and porosity-tunable, thermally reactive metal organic frameworks for high-performance Ni-rich layered oxide cathode materials with multi-scale pores. Journal of Materials Chemistry A, 2019, 7, 15190-15197.	5.2	12
12	Effect of Residual Lithium Rearrangement on Niâ€rich Layered Oxide Cathodes for Lithiumâ€ion Batteries. Energy Technology, 2018, 6, 1361-1369.	1.8	61
13	Residual Li Reactive Coating with Co₃O₄for Superior Electrochemical Properties of LiNi_{0.91}Co_{0.06}Mn_{0.03}O₂Cathode Material. Journal of the Electrochemical Society, 2018, 165, A79-A85.	1.3	58
14	Improved Thermal Stability of Lithiumâ€Rich Layered Oxide by Fluorine Doping. ChemPhysChem, 2018, 19, 116-122.	1.0	14
15	Synchronous phase transition and carbon coating on the surface of Li-rich layered oxide cathode materials for rechargeable Li-ion batteries. Journal of Power Sources, 2018, 408, 105-110.	4.0	18
16	Machine learning assisted optimization of electrochemical properties for Ni-rich cathode materials. Scientific Reports, 2018, 8, 15778.	1.6	42
17	Requirement of high lithium content in Ni-rich layered oxide material for Li ion batteries. Journal of Alloys and Compounds, 2018, 766, 470-476.	2.8	33
18	Selective doping of Li-rich layered oxide cathode materials for high-stability rechargeable Li-ion batteries. Journal of Industrial and Engineering Chemistry, 2018, 68, 180-186.	2.9	14

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19	High-Performance and Industrially Feasible Ni-Rich Layered Cathode Materials by Integrating Coherent Interphase. ACS Applied Materials & Interfaces, 2018, 10, 20599-20610.	4.0	75
20	Tetrathiafulvalene as a Conductive Film-Making Additive on High-Voltage Cathode. ACS Applied Materials & Interfaces, 2017, 9, 3590-3595.	4.0	12
21	Improvement in high-voltage and high rate cycling performance of nickel-rich layered cathode materials via facile chemical vapor deposition with methane. Electrochimica Acta, 2017, 230, 308-315.	2.6	21
22	Computational Screening for Design of Optimal Coating Materials to Suppress Gas Evolution in Li-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2017, 9, 17822-17834.	4.0	32
23	Spinel-embedded lithium-rich oxide composites for Li-ion batteries. Journal of Power Sources, 2017, 360, 453-459.	4.0	24
24	Re-construction layer effect of LiNi0.8Co0.15Mn0.05O2 with solvent evaporation process. Scientific Reports, 2017, 7, 44557.	1.6	29
25	Metal phosphate-coated Ni-rich layered oxide positive electrode materials for Li-ion batteries: improved electrochemical performance and decreased Li residuals content. Electrochimica Acta, 2017, 257, 217-223.	2.6	57
26	Improved electrochemical properties of LiNi0.91Co0.06Mn0.03O2 cathode material via Li-reactive coating with metal phosphates. Scientific Reports, 2017, 7, 7151.	1.6	68
27	Graphene balls for lithium rechargeable batteries with fast charging and high volumetric energy densities. Nature Communications, 2017, 8, 1561.	5.8	151
28	Effect of lithium content on spinel phase evolution in the composite material LixNi0.25Co0.10Mn0.65O(3.4+x)/2 (0.8â‰¤xâ‰¤1.6) for Li-ion batteries. Solid State Ionics, 2016, 293, 77-84.	1.3	7
29	The synergistic effect of inert oxide and metal fluoride dual coatings on advanced cathode materials for lithium ion battery applications. Physical Chemistry Chemical Physics, 2016, 18, 15861-15866.	1.3	10
30	Enhancement in the electrochemical performance of zirconium/phosphate bi-functional coatings on LiNi_{0.8}Co_{0.15}Mn_{0.05}O₂ by the removal of Li residuals. Physical Chemistry Chemical Physics, 2016, 18, 29076-29085.	1.3	69
31	Induced AlF3 segregation for the generation of reciprocal Al2O3 and LiF coating layer on self-generated LiMn2O4 surface of over-lithiated oxide based Li-ion battery. Electrochimica Acta, 2016, 222, 830-837.	2.6	28
32	Performance analysis of Cu, Sn and Rh impregnated NiO/CGO91 anode for butane internal reforming SOFC at intermediate temperature. Renewable Energy, 2015, 83, 483-490.	4.3	22
33	Electrochemical analysis of Pr0.3Sr0.7CoxB(1â^'x)O3â^'Î´ (B=Fe, Mn; x=0, 0.3, 0.5, 0.7, and 1) as cathode materials for intermediate temperature SOFCs. Solid State Ionics, 2015, 272, 45-52.	1.3	10
34	Improving the kinetics and surface stability of sodium manganese oxide cathode materials for sodium rechargeable batteries with Al₂O₃/MWCNT hybrid networks. Journal of Materials Chemistry A, 2015, 3, 10730-10737.	5.2	18
35	Characterization of a thin, uniform coating on P2-type Na_{2/3}Fe_{1/2}Mn_{1/2}O₂ cathode material for sodium-ion batteries. RSC Advances, 2015, 5, 6340-6344.	1.7	24
36	Characterization of a P2-type chelating-agent-assisted Na_{2/3}Fe_{1/2}Mn_{1/2}O₂ cathode material for sodium-ion batteries. RSC Advances, 2014, 4, 22798-22802.	1.7	50

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37	Performance analysis of cobalt-based cathode materials for solid oxide fuel cell. Solid State Ionics, 2008, 179, 1490-1496.	1.3	40