# Kwangjin Park

List of Publications by Year
in descending order



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|---|---|---|---|
| 37 papers | 1,143 citations | 361413 20 h-index | 395702 33 g-index |
| 37 all docs | 37 docs citations | 37 times ranked | 1622 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Graphene balls for lithium rechargeable batteries with fast charging and high volumetric energy densities. Nature Communications, 2017, 8, 1561. | 12.8 | 151 |
| 2 | High-Performance and Industrially Feasible Ni-Rich Layered Cathode Materials by Integrating Coherent Interphase. ACS Applied Materials & Interfaces, 2018, 10, 20599-20610. | 8.0 | 75 |
| 3 | Enhancement in the electrochemical performance of zirconium/phosphate bi-functional coatings on LiNi<sub>0.8</sub>Co<sub>0.15</sub>Mn<sub>0.05</sub>O<sub>2</sub> by the removal of Li residuals. Physical Chemistry Chemical Physics, 2016, 18, 29076-29085. | 2.8 | 69 |
| 4 | Improved electrochemical properties of LiNi0.91Co0.06Mn0.03O2 cathode material via Li-reactive coating with metal phosphates. Scientific Reports, 2017, 7, 7151. | 3.3 | 68 |
| 5 | Effect of Residual Lithium Rearrangement on Niâ€rich Layered Oxide Cathodes for Lithiumâ€ion Batteries. Energy Technology, 2018, 6, 1361-1369. | 3.8 | 61 |
| 6 | Residual Li Reactive Coating with Co<sub>3</sub>O<sub>4</sub>for Superior Electrochemical Properties of LiNi<sub>0.91</sub>Co<sub>0.06</sub>Mn<sub>0.03</sub>O<sub>2</sub>Cathode Material. Journal of the Electrochemical Society, 2018, 165, A79-A85. | 2.9 | 58 |
| 7 | 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. | 5.2 | 57 |
| 8 | Characterization of a P2-type chelating-agent-assisted Na<sub>2/3</sub>Fe<sub>1/2</sub>Mn<sub>1/2</sub>O<sub>2</sub> cathode material for sodium-ion batteries. RSC Advances, 2014, 4, 22798-22802. | 3.6 | 50 |
| 9 | A Synergistic Effect of Na<sup>+</sup> and Al<sup>3+</sup> Dual Doping on Electrochemical Performance and Structural Stability of LiNi<sub>0.88</sub>Co<sub>0.08</sub>Mn<sub>0.04</sub>O<sub>2</sub> Cathodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5168-5176. | 8.0 | 44 |
| 10 | Machine learning assisted optimization of electrochemical properties for Ni-rich cathode materials. Scientific Reports, 2018, 8, 15778. | 3.3 | 42 |
| 11 | Performance analysis of cobalt-based cathode materials for solid oxide fuel cell. Solid State Ionics, 2008, 179, 1490-1496. | 2.7 | 40 |
| 12 | Requirement of high lithium content in Ni-rich layered oxide material for Li ion batteries. Journal of Alloys and Compounds, 2018, 766, 470-476. | 5.5 | 33 |
| 13 | 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. | 8.0 | 32 |
| 14 | High-Ni cathode material improved with Zr for stable cycling of Li-ion rechargeable batteries. RSC Advances, 2020, 10, 26756-26764. | 3.6 | 31 |
| 15 | Re-construction layer effect of LiNi0.8Co0.15Mn0.05O2 with solvent evaporation process. Scientific Reports, 2017, 7, 44557. | 3.3 | 29 |
| 16 | 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. | 5.2 | 28 |
| 17 | Characterization of a thin, uniform coating on P2-type Na<sub>2/3</sub>Fe<sub>1/2</sub>Mn<sub>1/2</sub>O<sub>2</sub> cathode material for sodium-ion batteries. RSC Advances, 2015, 5, 6340-6344. | 3.6 | 24 |
| 18 | Spinel-embedded lithium-rich oxide composites for Li-ion batteries. Journal of Power Sources, 2017, 360, 453-459. | 7.8 | 24 |

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|---|---|---|---|
| 19 | 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. | 8.9 | 22 |
| 20 | 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. | 5.2 | 21 |
| 21 | Improving the kinetics and surface stability of sodium manganese oxide cathode materials for sodium rechargeable batteries with Al<sub>2</sub>O<sub>3</sub>/MWCNT hybrid networks. Journal of Materials Chemistry A, 2015, 3, 10730-10737. | 10.3 | 18 |
| 22 | 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. | 7.8 | 18 |
| 23 | Revealing the structural degradation mechanism of the Ni-rich cathode surface: How thick is the surface?. Journal of Power Sources, 2021, 490, 229542. | 7.8 | 17 |
| 24 | 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. | 5.5 | 16 |
| 25 | Improved Thermal Stability of Lithiumâ€Rich Layered Oxide by Fluorine Doping. ChemPhysChem, 2018, 19, 116-122. | 2.1 | 14 |
| 26 | 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. | 5.8 | 14 |
| 27 | Tetrathiafulvalene as a Conductive Film-Making Additive on High-Voltage Cathode. ACS Applied Materials & Interfaces, 2017, 9, 3590-3595. | 8.0 | 12 |
| 28 | 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. | 10.3 | 12 |
| 29 | Shape control of hierarchical lithium cobalt oxide using biotemplates for connected nanoparticles. Journal of Power Sources, 2019, 436, 226836. | 7.8 | 11 |
| 30 | Electrochemical analysis of Pr0.3Sr0.7CoxB(1âˆ'x)O3âˆ'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. | 2.7 | 10 |
| 31 | 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. | 2.8 | 10 |
| 32 | Hybrid dual conductor on Niâ€rich NCM for superior electrochemical performance in Lithiumâ€ion batteries. International Journal of Energy Research, 2022, 46, 7389-7398. | 4.5 | 9 |
| 33 | Energy density improvement by controlling the properties of conductive agents in Niâ€rich cathodes. International Journal of Energy Research, 2022, 46, 2073-2080. | 4.5 | 8 |
| 34 | 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. | 2.7 | 7 |
| 35 | 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. | 5.5 | 6 |
| 36 | l-Tryptophan: Antioxidant as a Film-Forming Additive for a High-Voltage Cathode. Langmuir, 2020, 36, 2823-2828. | 3.5 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | High-Performance and Industrially Feasible Ni-Rich Layered Cathodematerials By Integrating Coherent Interphase. ECS Meeting Abstracts, 2020, MA2020-02, 341-341. | 0.0 | 0 |