## Yongseon Kim

List of Publications by Year in descending order

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566801 500791 40 809 15 28 citations h-index g-index papers 40 40 40 1158 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Experimental and First-Principles Thermodynamic Study of the Formation and Effects of Vacancies in Layered Lithium Nickel Cobalt Oxides. Chemistry of Materials, 2011, 23, 5388-5397.	3.2	89
2	Synthesis of High-Density Nickel Cobalt Aluminum Hydroxide by Continuous Coprecipitation Method. ACS Applied Materials & Description of the ACS Applied Materials & Decription of the ACS Applied Mate	4.0	81
3	First-principles and experimental investigation of the morphology of layer-structured LiNiO2 and LiCoO2. Journal of Materials Chemistry, 2012, 22, 12874.	6.7	74
4	Mechanism of gas evolution from the cathode of lithium-ion batteries at the initial stage of high-temperature storage. Journal of Materials Science, 2013, 48, 8547-8551.	1.7	64
5	Encapsulation of LiNi0.5Co0.2Mn0.3O2 with a thin inorganic electrolyte film to reduce gas evolution in the application of lithium ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 6400.	1.3	58
6	Investigation of the gas evolution in lithium ion batteries: effect of free lithium compounds in cathode materials. Journal of Solid State Electrochemistry, 2013, 17, 1961-1965.	1.2	46
7	Dual spectra band emissive Eu <sup>2+</sup> /Mn <sup>2+</sup> co-activated alkaline earth phosphates for indoor plant growth novel phosphor converted-LEDs. Physical Chemistry Chemical Physics, 2017, 19, 11111-11119.	1.3	38
8	Self-assembly of core–shell structures driven by low doping limit of Ti in LiCoO <sub>2</sub> : first-principles thermodynamic and experimental investigation. Physical Chemistry Chemical Physics, 2017, 19, 4104-4113.	1.3	36
9	First-principles thermodynamic calculations and experimental investigation of Sr–Si–N–O system—synthesis of Sr <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu phosphor. Journal of Materials Chemistry C, 2013, 1, 69-78.	2.7	34
10	Calculation of Formation Energy of Oxygen Vacancy in ZnO Based on Photoluminescence Measurements. Journal of Physical Chemistry B, 2010, 114, 7874-7878.	1.2	33
11	Investigation on the dissolution of Mn ions from LiMn <sub>2</sub> O <sub>4</sub> cathode in the application of lithium ion batteries: First principle molecular orbital method. International Journal of Quantum Chemistry, 2013, 113, 148-154.	1.0	30
12	Effects and distribution of Zr introduced in Ni-based cathode material for Li-ion batteries. Physical Chemistry Chemical Physics, 2019, 21, 12505-12517.	1.3	27
13	Point Defects in Layer-Structured Cathode Materials for Lithium-lon Batteries. Journal of Physical Chemistry C, 2016, 120, 4173-4182.	1.5	24
14	Fluorination of free lithium residues on the surface of lithium nickel cobalt aluminum oxide cathode materials for lithium ion batteries. Materials and Design, 2016, 100, 175-179.	3.3	22
15	First principles investigation of the structure and stability of LiNiO2 doped with Co and Mn. Journal of Materials Science, 2012, 47, 7558-7563.	1.7	16
16	Improvement of the electrochemical properties of LiNi0.5Mn1.5O4 by controlling the heating atmosphere during synthesis. Ceramics International, 2017, 43, 15510-15518.	2.3	16
17	Eu <sup>2+</sup> -Activated Phase-Pure Oxonitridosilicate Phosphor in a Ba–Si–O–N System via Facile Silicate-Assisted Routes Designed by First-Principles Thermodynamic Simulation. Inorganic Chemistry, 2016, 55, 8750-8757.	1.9	14
18	Thermodynamic investigation of Ti doping in MgAl <sub>2</sub> O <sub>4</sub> based on the first-principles method. Journal of Materials Chemistry C, 2015, 3, 8970-8978.	2.7	12

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19	Enhancement of UV emission in ZnO nanorods by growing additional ZnO layers on the surface. Nanotechnology, 2011, 22, 275707.	1.3	11
20	Surface Photoluminescence Emission of ZnO Nanorod Arrays: Experimental and First-Principles Investigation. Journal of Physical Chemistry C, 2010, 114, 17894-17898.	1.5	9
21	First-principles investigation of the gas evolution from the cathodes of lithium-ion batteries during the storage test. Journal of Materials Science, 2014, 49, 8444-8448.	1.7	8
22	Theoretical investigation of the cation antisite defect in layer-structured cathode materials for Li-ion batteries. Physical Chemistry Chemical Physics, 2019, 21, 24139-24146.	1.3	8
23	Effect of metal composition on the structure of layer-structured cathode materials for Li-ion batteries. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	8
24	Water adsorption on the surface of Ni―and Coâ€based layerâ€structured cathode materials for lithiumâ€ion batteries. International Journal of Quantum Chemistry, 2018, 118, e25591.	1.0	6
25	Multi-functional colored coating of BaMgAl10017:Eu phosphors with cobalt-doped Al2O3 thin films. Applied Physics A: Materials Science and Processing, 2010, 98, 245-248.	1.1	5
26	Investigation of the change in the electronic properties of FeF <sub>3</sub> by the introduction of oxygen using a molecular orbital method. International Journal of Quantum Chemistry, 2014, 114, 340-344.	1.0	5
27	Thermochemical investigation of Zr doping in LiNi <sub>2/12</sub> O <sub>2</sub> based on phase equilibria simulation. International Journal of Quantum Chemistry, 2019, 119, e26028.	1.0	5
28	Component-Selective Passivation of Li Residues of Ni-Based Cathode Materials by Chemical Mimicry of Solid Electrolyte Interphase Formation. ACS Applied Energy Materials, 2019, 2, 217-221.	2.5	5
29	Luminescent properties and energy transfer of Eu2+/Mn2+ codoped Na(Sr,Ba)PO4 and Ba2Mg(BO3)2 phosphors. Journal of Luminescence, 2020, 220, 116958.	1.5	4
30	Investigation of growth kinetics of NiO·855CoO·145(OH)2 particles in continuous co-precipitation process. Ceramics International, 2020, 46, 19476-19483.	2.3	4
31	Rational design of electrochemically active polymorphic MnOx/rGO composites for Li+-rechargeable battery electrodes. Ceramics International, 2019, 45, 9522-9528.	2.3	3
32	Understanding the Chemical Composition with Doping Aliovalent Ions, Followed by the Electrochemical Behavior for Surface-Modified Ni-Rich NMC Cathode Materials. Inorganic Chemistry, 2021, 60, 16294-16302.	1.9	3
33	Free-Standing, Robust, and Stable Li <sup>+</sup> Conductive Li(Sr,Zr) <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /PEO Composite Electrolytes for Solid-State Batteries. ACS Applied Energy Materials, 2021, 4, 13974-13982.	2.5	3
34	Minimum Co content limit in layer-structured cathode materials for Li-ion batteries. Journal of Power Sources, 2020, 467, 228351.	4.0	2
35	Origin of the different degradation mechanisms of LNCM and LNCA cathodes in Li-ion batteries. Physical Chemistry Chemical Physics, 2022, 24, 3429-3439.	1.3	2
36	Defects on the Surface of Ti-Doped MgAl2O4 Nanophosphor. Nanoscale Research Letters, 2017, 12, 536.	3.1	1

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37	Investigation of the processing conditions for the synthesis of rod-shaped LiCoO2. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	1
38	Synthesis and Surface Coating of LiMn <sub>2</sub> O <sub>4</sub> Nanorods for the Cathode of the Lithium-Ion Battery. Journal of Nanoscience and Nanotechnology, 2021, 21, 5289-5295.	0.9	1
39	Postheating Effect of LiNi0.925Co0.05Mn0.025O2 in Argon Atmosphere on Lithium Residues and Related Battery Performance. ACS Applied Energy Materials, 0, , .	2.5	1
40	First-principles investigation of the effect of Co in stabilizing the structures of layer-structured cathodes in delithiated state. Materials Research Express, 2020, 7, 075507.	0.8	O