

# Yongseon Kim

## List of Publications by Year in descending order

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40  
papers

809  
citations

566801

15  
h-index

500791

28  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1158  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the different degradation mechanisms of LNCM and LNCA cathodes in Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3429-3439.	1.3	2
2	Synthesis and Surface Coating of $\text{LiMn}_2\text{O}_4$ Nanorods for the Cathode of the Lithium-Ion Battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5289-5295.	0.9	1
3	Understanding the Chemical Composition with Doping Alivalent Ions, Followed by the Electrochemical Behavior for Surface-Modified Ni-Rich NMC Cathode Materials. <i>Inorganic Chemistry</i> , 2021, 60, 16294-16302.	1.9	3
4	Free-Standing, Robust, and Stable $\text{Li}^{+}$ Conductive $\text{Li}(\text{Sr,Zr})_2(\text{PO}_4)_3/\text{PEO}$ Composite Electrolytes for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 13974-13982.	2.5	3
5	Luminescent properties and energy transfer of $\text{Eu}^{2+}/\text{Mn}^{2+}$ codoped $\text{Na}(\text{Sr,Ba})\text{PO}_4$ and $\text{Ba}_2\text{Mg}(\text{BO}_3)_2$ phosphors. <i>Journal of Luminescence</i> , 2020, 220, 116958.	1.5	4
6	Minimum Co content limit in layer-structured cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2020, 467, 228351.	4.0	2
7	Effect of metal composition on the structure of layer-structured cathode materials for Li-ion batteries. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	8
8	Investigation of growth kinetics of $\text{Ni}_{0.855}\text{Co}_{0.145}(\text{OH})_2$ particles in continuous co-precipitation process. <i>Ceramics International</i> , 2020, 46, 19476-19483.	2.3	4
9	First-principles investigation of the effect of Co in stabilizing the structures of layer-structured cathodes in delithiated state. <i>Materials Research Express</i> , 2020, 7, 075507.	0.8	0
10	Thermochemical investigation of Zr doping in $\text{LiNi}_{8/12}\text{Co}_{2/12}\text{Mn}_{2/12}\text{O}_2$ based on phase equilibria simulation. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e26028.	1.0	5
11	Effects and distribution of Zr introduced in Ni-based cathode material for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12505-12517.	1.3	27
12	Theoretical investigation of the cation antisite defect in layer-structured cathode materials for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24139-24146.	1.3	8
13	Component-Selective Passivation of Li Residues of Ni-Based Cathode Materials by Chemical Mimicry of Solid Electrolyte Interphase Formation. <i>ACS Applied Energy Materials</i> , 2019, 2, 217-221.	2.5	5
14	Rational design of electrochemically active polymorphic $\text{MnOx}/\text{rGO}$ composites for Li+-rechargeable battery electrodes. <i>Ceramics International</i> , 2019, 45, 9522-9528.	2.3	3
15	Water adsorption on the surface of Ni- and Co-based layer-structured cathode materials for lithium-ion batteries. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25591.	1.0	6
16	Investigation of the processing conditions for the synthesis of rod-shaped $\text{LiCoO}_2$ . <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	1
17	Dual spectra band emissive $\text{Eu}^{2+}/\text{Mn}^{2+}$ co-activated alkaline earth phosphates for indoor plant growth novel phosphor converted-LEDs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11111-11119.	1.3	38
18	Self-assembly of core-shell structures driven by low doping limit of Ti in $\text{LiCoO}_2$ : first-principles thermodynamic and experimental investigation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4104-4113.	1.3	36

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19	Improvement of the electrochemical properties of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> by controlling the heating atmosphere during synthesis. <i>Ceramics International</i> , 2017, 43, 15510-15518.	2.3	16
20	Defects on the Surface of Ti-Doped MgAl <sub>2</sub> O <sub>4</sub> Nanophosphor. <i>Nanoscale Research Letters</i> , 2017, 12, 536.	3.1	1
21	Fluorination of free lithium residues on the surface of lithium nickel cobalt aluminum oxide cathode materials for lithium ion batteries. <i>Materials and Design</i> , 2016, 100, 175-179.	3.3	22
22	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. <i>Inorganic Chemistry</i> , 2016, 55, 8750-8757.	1.9	14
23	Point Defects in Layer-Structured Cathode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4173-4182.	1.5	24
24	Thermodynamic investigation of Ti doping in MgAl <sub>2</sub> O <sub>4</sub> based on the first-principles method. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8970-8978.	2.7	12
25	First-principles investigation of the gas evolution from the cathodes of lithium-ion batteries during the storage test. <i>Journal of Materials Science</i> , 2014, 49, 8444-8448.	1.7	8
26	Investigation of the change in the electronic properties of FeF <sub>3</sub> by the introduction of oxygen using a molecular orbital method. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 340-344.	1.0	5
27	Encapsulation of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> with a thin inorganic electrolyte film to reduce gas evolution in the application of lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6400.	1.3	58
28	First-principles thermodynamic calculations and experimental investigation of Sr–Si–Na–O system synthesis of Sr <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu phosphor. <i>Journal of Materials Chemistry C</i> , 2013, 1, 69-78.	2.7	34
29	Investigation of the gas evolution in lithium ion batteries: effect of free lithium compounds in cathode materials. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1961-1965.	1.2	46
30	Mechanism of gas evolution from the cathode of lithium-ion batteries at the initial stage of high-temperature storage. <i>Journal of Materials Science</i> , 2013, 48, 8547-8551.	1.7	64
31	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. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 148-154.	1.0	30
32	First principles investigation of the structure and stability of LiNiO <sub>2</sub> doped with Co and Mn. <i>Journal of Materials Science</i> , 2012, 47, 7558-7563.	1.7	16
33	First-principles and experimental investigation of the morphology of layer-structured LiNiO <sub>2</sub> and LiCoO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , 2012, 22, 12874.	6.7	74
34	Synthesis of High-Density Nickel Cobalt Aluminum Hydroxide by Continuous Coprecipitation Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 586-589.	4.0	81
35	Experimental and First-Principles Thermodynamic Study of the Formation and Effects of Vacancies in Layered Lithium Nickel Cobalt Oxides. <i>Chemistry of Materials</i> , 2011, 23, 5388-5397.	3.2	89
36	Enhancement of UV emission in ZnO nanorods by growing additional ZnO layers on the surface. <i>Nanotechnology</i> , 2011, 22, 275707.	1.3	11

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37	Multi-functional colored coating of BaMgAl <sub>10</sub> O <sub>17</sub> :Eu phosphors with cobalt-doped Al <sub>2</sub> O <sub>3</sub> thin films. Applied Physics A: Materials Science and Processing, 2010, 98, 245-248.	1.1	5
38	Surface Photoluminescence Emission of ZnO Nanorod Arrays: Experimental and First-Principles Investigation. Journal of Physical Chemistry C, 2010, 114, 17894-17898.	1.5	9
39	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
40	Postheating Effect of LiNi <sub>0.925</sub> Co <sub>0.05</sub> Mn <sub>0.025</sub> O <sub>2</sub> in Argon Atmosphere on Lithium Residues and Related Battery Performance. ACS Applied Energy Materials, 0, , .	2.5	1