

Misae Otoyama

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Raman imaging for LiCoO ₂ composite positive electrodes in all-solid-state lithium batteries using Li ₂ S-P ₂ S ₅ solid electrolytes. Journal of Power Sources, 2016, 302, 419-425.	7.8	93
2	Electrochemical and structural evaluation for bulk-type all-solid-state batteries using Li ₄ GeS ₄ -Li ₃ PS ₄ electrolyte coating on LiCoO ₂ particles. Journal of Power Sources, 2017, 360, 328-335.	7.8	59
3	Mechanochemical Synthesis and Characterization of Metastable Hexagonal Li ₄ SnS ₄ Solid Electrolyte. Inorganic Chemistry, 2018, 57, 9925-9930.	4.0	59
4	Visualization and Control of Chemically Induced Crack Formation in All-Solid-State Lithium-Metal Batteries with Sulfide Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 5000-5007.	8.0	50
5	<i>Operando</i> Confocal Microscopy for Dynamic Changes of Li ⁺ Ion Conduction Path in Graphite Electrode Layers of All-Solid-State Batteries. Journal of Physical Chemistry Letters, 2020, 11, 900-904.	4.6	44
6	Analysis of structural and thermal stability in the positive electrode for sulfide-based all-solid-state lithium batteries. Journal of Power Sources, 2017, 367, 42-48.	7.8	38
7	Optical microscopic observation of graphite composite negative electrodes in all-solid-state lithium batteries. Solid State Ionics, 2018, 323, 123-129.	2.7	31
8	Crystallization behavior of the Li ₂ S-P ₂ S ₅ glass electrolyte in the LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ positive electrode layer. Scientific Reports, 2018, 8, 6214.	3.3	30
9	Synthesis and Electrochemical Activity of Some Na(Li)-Rich Ruthenium Oxides with the Feasibility to Stabilize Ru ⁶⁺ . Advanced Energy Materials, 2019, 9, 1803674.	19.5	28
10	Investigation of State-of-charge Distributions for LiCoO ₂ Composite Positive Electrodes in All-solid-state Lithium Batteries by Raman Imaging. Chemistry Letters, 2016, 45, 810-812.	1.3	25
11	Exothermal behavior and microstructure of a LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ electrode layer using a Li ₄ SnS ₄ solid electrolyte. Journal of Power Sources, 2020, 479, 228827.	7.8	22
12	Raman Spectroscopy for LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ Composite Positive Electrodes in All-Solid-State Lithium Batteries. Electrochemistry, 2016, 84, 812-814.		20
13	A systematic study on structure, ionic conductivity, and air-stability of xLi ₄ SnS ₄ ·(1-x)Li ₃ PS ₄ solid electrolytes. Ceramics International, 2021, 47, 28377-28383.	4.8	14
14	Ex situ investigation of exothermal behavior and structural changes of the Li ₃ PS ₄ -LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ electrode composites. Solid State Ionics, 2019, 342, 115046.	2.7	13
15	Visualizing Local Electrical Properties of Composite Electrodes in Sulfide All-Solid-State Batteries by Scanning Probe Microscopy. Journal of Physical Chemistry C, 2021, 125, 2841-2849.	3.1	11
16	Reaction uniformity visualized by Raman imaging in the composite electrode layers of all-solid-state lithium batteries. Physical Chemistry Chemical Physics, 2020, 22, 13271-13276.	2.8	9
17	Amorphous Na ₂ TiS ₃ as an Active Material for All-solid-state Sodium Batteries. Chemistry Letters, 2019, 48, 288-290.	1.3	7
18	Sulfide Electrolyte Suppressing Side Reactions in Composite Positive Electrodes for All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 29228-29234.	8.0	7

#	ARTICLE	IF	CITATIONS
19	Mechanochemical synthesis of air-stable hexagonal Li_4SnS_4 -based solid electrolytes containing LiI and Li_3PS_4 . RSC Advances, 2021, 11, 38880-38888.	3.6	6
20	Mechanochemical synthesis of cubic rocksalt Na_2Ti_3 as novel active materials for all-solid-state sodium secondary batteries. Journal of the Ceramic Society of Japan, 2019, 127, 514-517.	1.1	5
21	Mechanochemical Synthesis and Characterization of $\text{XLi}_4\text{SnS}_4 \cdot (1-x)\text{Li}_3\text{PS}_4$ Solid Electrolytes. ECS Meeting Abstracts, 2021, MA2021-02, 366-366.	0.0	0