

Satoshi Hori

List of Publications by Year in descending order

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430754

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docs citations

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times ranked

3496
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous High Ionic Conductivity of $\text{Li}_{20}\text{SiS}_{12}$ -Type Conductors. <i>Journal of the American Chemical Society</i> , 2022, 144, 4989-4994.	6.6	20
2	$\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -Type Structured Solid Solution Phases in the $\text{Li}_9\text{P}_3\text{S}_{12}\text{O}_3$ System: Controlling Crystallinity by Synthesis to Improve the Air Stability. <i>Inorganic Chemistry</i> , 2022, 61, 52-61.	1.9	14
3	Revealing the Ion Dynamics in $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ by Quasi-Elastic Neutron Scattering Measurements. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9518-9527.	1.5	8
4	Liquid-phase synthesis of the $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -type phase in the $\text{LiAlSi}_2\text{P}_3\text{Cl}$ system. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14392-14398.	5.2	6
5	Annealing-induced evolution at the $\text{LiCoO}_2/\text{LiNbO}_3$ interface and its functions in all-solid-state batteries with a $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4117-4125.	5.2	11
6	Discharge voltage profile changes via physicochemical phenomena in cycled all-solid-state cells based on $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ and LiNbO_3 -coated LiCoO_2 . <i>Journal of Materials Chemistry A</i> , 2021, 9, 17905-17912.	5.2	4
7	Crystalline Electrolyte. , 2021, , 49-60.		0
8	Correlated Li-ion migration in the superionic conductor $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11278-11284.	5.2	21
9	A mechanistic investigation of the $\text{Li}_{10}\text{GeP}_2\text{S}_{12} \text{LiNi}_{1-x-y}\text{Co}_x\text{Mn}_y\text{O}_2$ interface stability in all-solid-state lithium batteries. <i>Nature Communications</i> , 2021, 12, 6669.	5.8	72
10	Correlated Lithium-Ion Migration in Solid Electrolyte $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 280-286.	0.0	0
11	$\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -Type Superionic Conductors: Synthesis, Structure, and Ionic Transportation. <i>Advanced Energy Materials</i> , 2020, 10, 2002153.	10.2	101
12	A lithium conductor $\text{Li}_{6.96}\text{Sn}_{1.55}\text{Si}_{1.71}\text{P}_{0.8}\text{S}_{12}$ with a cubic argyrodite-type structure in the Li_2SnS_5 system: Synthesis, structure, and electrochemical properties. <i>Solid State Ionics</i> , 2020, 356, 115458.	1.3	8
13	Oxygen Substitution for $\text{LiAlSi}_2\text{P}_3\text{Cl}$ Solid Electrolytes toward Purified $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -Type Phase with Enhanced Electrochemical Stabilities for All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2020, 32, 8860-8867.	3.2	24
14	Synthesis of $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -type lithium superionic conductors under Ar gas flow. <i>Journal of Power Sources</i> , 2020, 473, 228524.	4.0	11
15	Precipitation of the Lithium Superionic Conductor $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ by a Liquid-phase Process. <i>Chemistry Letters</i> , 2020, 49, 1379-1381.	0.7	4
16	Ionic conduction mechanism of a lithium superionic argyrodite in the $\text{LiAlSi}_2\text{P}_3\text{O}$ system. <i>Materials Advances</i> , 2020, 1, 334-340.	2.6	30
17	Weak Anisotropic Lithium-Ion Conductivity in Single Crystals of $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. <i>Chemistry of Materials</i> , 2019, 31, 3694-3699.	3.2	57
18	Conduction Mechanism of $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -type Lithium Superionic Conductors in a $\text{LiAlSi}_2\text{P}_3\text{S}$ System. <i>Chemistry of Materials</i> , 2019, 31, 3485-3490.	3.2	21

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19	Superionic lithium conductor with a cubic argyrodite-type structure in the Li ⁺ Al ⁺ Si ⁺ S system. Journal of Solid State Chemistry, 2019, 270, 487-492.	1.4	35
20	Tuning mobility and stability of lithium ion conductors based on lattice dynamics. Energy and Environmental Science, 2018, 11, 850-859.	15.6	158
21	Superionic Conductors: Li ₁₀ ⁺ [Sn ⁺ Si ⁺] ₁ ⁺ P ₂ ⁺ S ₁₂ with a Li ₁₀ GeP ₂ S ₁₂ -type Structure in the Li ₃ PS ₄ -Li ₄ SnS ₄ -Li ₄ SiS ₄ Quasi-ternary System. Chemistry of Materials, 2017, 29, 5058-5064.	3.2	134
22	Lithium Superionic Conductor Li _{9.42} Si _{1.02} P _{2.15} S _{9.96} O _{2.04} with Li ₁₀ GeP ₂ S ₁₂ -Type Structure in the Li ₂ S ⁺ P ₂ S ₅ ⁺ SiO ₂ Pseudoternary System: Synthesis, Electrochemical Properties, and Structure-Composition Relationships. Frontiers in Energy Research, 2016, 4, .	1.2	54
23	High-power all-solid-state batteries using sulfide superionic conductors. Nature Energy, 2016, 1, .	19.8	2,421
24	Oxygen substitution effects in Li ₁₀ GeP ₂ S ₁₂ solid electrolyte. Journal of Power Sources, 2016, 324, 798-803.	4.0	131
25	Synthesis, structure, and electrochemical properties of crystalline Li ⁺ P ⁺ S ⁺ O solid electrolytes: Novel lithium-conducting oxysulfides of Li ₁₀ GeP ₂ S ₁₂ family. Solid State Ionics, 2016, 288, 229-234.	1.3	55
26	Phase Diagram of the Li ₄ GeS ₄ -Li ₃ PS ₄ Quasi-Binary System Containing the Superionic Conductor Li ₁₀ GeP ₂ S ₁₂ . Journal of the American Ceramic Society, 2015, 98, 3352-3360.	1.9	64
27	Structure-property relationships in lithium superionic conductors having a Li ₁₀ GeP ₂ S ₁₂ -type structure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 727-736.	0.5	46
28	Synthesis, structure, and ionic conductivity of solid solution, Li ₁₀ ⁺ M ₁ ⁺ P ₂ ⁺ S ₁₂ (M = Si, Sn). Faraday Discussions, 2014, 176, 83-94.	1.6	83