

Sean P Culver

List of Publications by Year in descending order

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24
papers

2,864
citations

331670

21
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610901

24
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docs citations

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times ranked

2265
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Lattice Polarizability on the Ionic Conductivity in the Lithium Superionic Argyrodites $\text{Li}_6\text{PS}_5\text{X}$ (X = Cl, Br, I). <i>Journal of the American Chemical Society</i> , 2017, 139, 10909-10918.	13.7	446
2	Inducing High Ionic Conductivity in the Lithium Superionic Argyrodites $\text{Li}_6\text{P}_{1-x}\text{Ge}_x\text{S}_5\text{I}$ for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 16330-16339.	13.7	331
3	Degradation Mechanisms at the $\text{Li}_{10}\text{GeP}_2\text{S}_{12}/\text{LiCoO}_2$ Cathode Interface in an All-Solid-State Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22226-22236.	8.0	250
4	Lithium ion conductivity in $\text{Li}_2\text{S-P}_2\text{S}_5$ glasses "building units and local structure evolution during the crystallization of superionic conductors Li_3PS_4 , $\text{Li}_7\text{P}_3\text{S}_{11}$ and $\text{Li}_4\text{P}_2\text{S}_7$ ". <i>Journal of Materials Chemistry A</i> , 2017, 5, 18111-18119.	10.3	233
5	On the Functionality of Coatings for Cathode Active Materials in Thiophosphate-Based All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900626.	19.5	221
6	Designing Ionic Conductors: The Interplay between Structural Phenomena and Interfaces in Thiophosphate-Based Solid-State Batteries. <i>Chemistry of Materials</i> , 2018, 30, 4179-4192.	6.7	131
7	Effect of Si substitution on the structural and transport properties of superionic Li-argyrodites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 645-651.	10.3	128
8	Comparing the Descriptors for Investigating the Influence of Lattice Dynamics on Ionic Transport Using the Superionic Conductor $\text{Na}_3\text{PS}_4\text{Se}$. <i>Journal of the American Chemical Society</i> , 2018, 140, 14464-14473.	13.7	122
9	Bottleneck of Diffusion and Inductive Effects in $\text{Li}_{10}\text{GeP}_1\text{Sn}_x\text{P}_2\text{S}_{12}$. <i>Chemistry of Materials</i> , 2018, 30, 1791-1798.	6.7	114
10	Further Evidence for Energy Landscape Flattening in the Superionic Argyrodites $\text{Li}_6\text{P}_{1-x}\text{M}_x\text{S}_5\text{I}$ (M = Si, Ge, Sn). <i>Chemistry of Materials</i> , 2019, 31, 4936-4944.	6.7	109
11	Defect-Mediated Conductivity Enhancements in $\text{Na}_3\text{Pn}_1\text{W}_x\text{S}_4$ (Pn = P, Sb) Using Aliovalent Substitutions. <i>ACS Energy Letters</i> , 2020, 5, 146-151.	17.4	100
12	Synthesis, Structural Characterization, and Lithium Ion Conductivity of the Lithium Thiophosphate $\text{Li}_2\text{P}_2\text{S}_6$. <i>Inorganic Chemistry</i> , 2017, 56, 6681-6687.	4.0	98
13	Competing Structural Influences in the Li Superionic Conducting Argyrodites $\text{Li}_6\text{PS}_5\text{Se}_x\text{Br}_{(1-x)}$ (0 ≤ x ≤ 1) upon Se Substitution. <i>Inorganic Chemistry</i> , 2018, 57, 13920-13928.	4.0	82
14	Solution-based synthesis of lithium thiophosphate superionic conductors for solid-state batteries: a chemistry perspective. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17735-17753.	10.3	82
15	Rapid Crystallization and Kinetic Freezing of Site-Disorder in the Lithium Superionic Argyrodite $\text{Li}_6\text{PS}_5\text{Br}$. <i>Chemistry of Materials</i> , 2019, 31, 10178-10185.	6.7	72
16	Investigation of Fluorine and Nitrogen as Anionic Dopants in Nickel-Rich Cathode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44452-44462.	8.0	63
17	Enhancing the Electrochemical Performance of $\text{LiNi}_{0.70}\text{Co}_{0.15}\text{Mn}_{0.15}\text{O}_2$ Cathodes Using a Practical Solution-Based Al_2O_3 Coating. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31392-31400.	8.0	57
18	Changing the Static and Dynamic Lattice Effects for the Improvement of the Ionic Transport Properties within the Argyrodite $\text{Li}_6\text{PS}_5\text{Se}_x\text{I}$. <i>ACS Applied Energy Materials</i> , 2020, 3, 9-18.	5.1	52

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19	Evidence for a Solid-Electrolyte Inductive Effect in the Superionic Conductor $\text{Li}_{10}\text{Ge}_6\text{Sn}_2\text{P}_2\text{S}_{12}$. <i>Journal of the American Chemical Society</i> , 2020, 142, 21210-21219.	13.7	43
20	Vacancy and anti-site disorder scattering in AgBiSe_2 thermoelectrics. <i>Dalton Transactions</i> , 2017, 46, 3906-3914.	3.3	39
21	Influence of the Lithium Substructure on the Diffusion Pathways and Transport Properties of the Thio-LISICON $\text{Li}_4\text{Ge}_6\text{Sn}_4\text{S}_{24}$. <i>Chemistry of Materials</i> , 2019, 31, 3794-3802.	6.7	39
22	A Rapid and Facile Approach for the Recycling of High-Performance $\text{LiNi}_1\text{Co}_x\text{Mn}_y\text{O}_2$ Active Materials. <i>ChemSusChem</i> , 2021, 14, 441-448.	6.8	20
23	Local Structure and Influence of Sb Substitution on the Structure-Transport Properties in AgBiSe_2 . <i>Inorganic Chemistry</i> , 2019, 58, 9236-9245.	4.0	18
24	Ionic Conductivity of the NASICON-Related Thiophosphate $\text{Na}_1\text{Ti}_2\text{Ga}(\text{PS}_4)_3$. <i>Chemistry - A European Journal</i> , 2019, 25, 4143-4148.	3.3	14