

Lucienne

List of Publications by Year in descending order

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15
papers

1,258
citations

623734

14
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

2043
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the Dendritic Growth during Full Cell Cycling of Garnet Electrolyte in Direct Contact with Li Metal. ACS Applied Materials & Interfaces, 2017, 9, 3808-3816.	8.0	307
2	Proton trapping in yttrium-doped barium zirconate. Nature Materials, 2013, 12, 647-651.	27.5	297
3	Dual Substitution Strategy to Enhance $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12}$ Ionic Conductivity in Solid Electrolyte. Chemistry of Materials, 2017, 29, 1769-1778.	6.7	169
4	Mechanical failure of garnet electrolytes during Li electrodeposition observed by in-operando microscopy. Journal of Power Sources, 2019, 412, 287-293.	7.8	122
5	Garnet-Polymer Composite Electrolytes: New Insights on Local Li-Ion Dynamics and Electrodeposition Stability with Li Metal Anodes. ACS Applied Energy Materials, 2019, 2, 1734-1746.	5.1	99
6	Probing Cation and Vacancy Ordering in the Dry and Hydrated Yttrium-Substituted BaSnO_3 Perovskite by NMR Spectroscopy and First Principles Calculations: Implications for Proton Mobility. Journal of the American Chemical Society, 2012, 134, 14483-14498.	13.7	46
7	Electrochemical performances and gassing behavior of high surface area titanium niobium oxides. Journal of Materials Chemistry A, 2016, 4, 11531-11541.	10.3	37
8	Probing the local structures and protonic conduction pathways in scandium substituted BaZrO_3 by multinuclear solid-state NMR spectroscopy. Journal of Materials Chemistry, 2010, 20, 6322.	6.7	35
9	Thermal phase transformations in LaGaO_3 and LaAlO_3 perovskites: An experimental and computational solid-state NMR study. Solid State Nuclear Magnetic Resonance, 2012, 42, 87-97.	2.3	29
10	Dense freeze-cast $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolytes with oriented open porosity and contiguous ceramic scaffold. Journal of the American Ceramic Society, 2019, 102, 1021-1029.	3.8	27
11	The Cathode Composition, A Key Player in the Success of Li-Metal Solid-State Batteries. Journal of Physical Chemistry C, 2019, 123, 3270-3278.	3.1	24
12	Proton distribution in Sc-doped BaZrO_3 : a solid state NMR and first principle calculations analysis. Physical Chemistry Chemical Physics, 2018, 20, 4317-4328.	2.8	21
13	Crystal structure and proton conductivity of $\text{BaSn}_{0.6}\text{Sc}_{0.4}\text{O}_{3-\delta}$: insights from neutron powder diffraction and solid-state NMR spectroscopy. Journal of Materials Chemistry A, 2016, 4, 5088-5101.	10.3	18
14	Will the competitive future of solid state Li metal batteries rely on a ceramic or a composite electrolyte?. Sustainable Energy and Fuels, 2018, 2, 2325-2334.	4.9	14
15	Li-Rich Mn/Ni Layered Oxide as Electrode Material for Lithium Batteries: A ^7Li MAS NMR Study Revealing Segregation into (Nanoscale) Domains with Highly Different Electrochemical Behaviors. Journal of Physical Chemistry C, 2016, 120, 19049-19063.	3.1	13