

# Sawankumar V Patel

## List of Publications by Year in descending order

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17  
papers

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citations

1040056

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940533

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Enhanced ion conduction by enforcing structural disorder in Li-deficient argyrodites $\text{Li}_{6-x}\text{PS}_5\text{Cl}_{1+x}$ . <i>Energy Storage Materials</i> , 2020, 30, 67-73.	18.0	97
2	Tunable Lithium-Ion Transport in Mixed-Halide Argyrodites $\text{Li}_{6-x}\text{PS}_5\text{ClBr}_x$ : An Unusual Compositional Space. <i>Chemistry of Materials</i> , 2021, 33, 1435-1443.	6.7	78
3	Fast Ion Conduction and Its Origin in $\text{Li}_{6-x}\text{PS}_5\text{Br}_{1+x}$ . <i>Chemistry of Materials</i> , 2020, 32, 3833-3840.	6.7	75
4	An acetamide additive stabilizing ultra-low concentration electrolyte for long-cycling and high-rate sodium metal battery. <i>Energy Storage Materials</i> , 2021, 42, 370-379.	18.0	55
5	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18231-18239.	7.1	31
6	Frequency-Agile Low-Temperature Solution-Processed Alumina Dielectrics for Inorganic and Organic Electronics Enhanced by Fluoride Doping. <i>Journal of the American Chemical Society</i> , 2020, 142, 12440-12452.	13.7	27
7	Multifunctional Electrolyte Additive Stabilizes Electrode-Electrolyte Interface Layers for High-Voltage Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57430-57441.	8.0	26
8	Synthesis and characterizations of highly conductive and stable electrolyte $\text{Li}_{10}\text{P}_3\text{S}_{12}$ . <i>Energy Storage Materials</i> , 2019, 22, 397-401.	18.0	24
9	Structure and Properties of $\text{Cs}_7(\text{H}_4\text{PO}_4)_4(\text{H}_2\text{PO}_4)_8$ : A New Superprotonic Solid Acid Featuring the Unusual Polycation $(\text{H}_4\text{PO}_4)_4^+$ . <i>Journal of the American Chemical Society</i> , 2020, 142, 19992-20001.	13.7	9
10	Enhanced Ion Conduction in $\text{Li}_{2.5}\text{Zn}_{0.25}\text{PS}_4$ via Anion Doping. <i>Chemistry of Materials</i> , 2020, 32, 3036-3042.	6.7	9
11	Lithium Thiostannate Spinel: Air-Stable Cubic Semiconductors. <i>Chemistry of Materials</i> , 2021, 33, 2080-2089.	6.7	6
12	Interrupted anion-network enhanced $\text{Li}^+$ -ion conduction in $\text{Li}_{3+y}\text{PO}_4$ . <i>Energy Storage Materials</i> , 2022, 51, 88-96.	18.0	6
13	Microscopic Insights into the Reconstructive Phase Transition of $\text{KNaNbOF}_5$ with $^{19}\text{F}$ NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 5715-5722.	6.7	5
14	Phase Behavior and Superprotonic Conductivity in the System $(1-x)\text{CsH}_2\text{PO}_4-x\text{H}_3\text{PO}_4$ : Discovery of Off-Stoichiometric $\text{Li}^+[\text{Cs}_{1-x}\text{H}_x]\text{H}_2\text{PO}_4$ . <i>Chemistry of Materials</i> , 2022, 34, 1809-1820.	6.7	5
15	Nanoscale Encapsulation of Hybrid Perovskites Using Hybrid Atomic Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4082-4089.	4.6	5
16	Phase transitions and potential ferroelectricity in noncentrosymmetric $\text{KNaNbOF}_5$ . <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
17	Fluoride Doping in Crystalline and Amorphous Indium Oxide Semiconductors. <i>Chemistry of Materials</i> , 0, , .	6.7	1