

# Bairav S Vishnugopi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11149790/publications.pdf>

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13  
papers

497  
citations

1040056

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1199594

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docs citations

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times ranked

400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linking void and interphase evolution to electrochemistry in solid-state batteries using operando X-ray tomography. <i>Nature Materials</i> , 2021, 20, 503-510.	27.5	194
2	Challenges and Opportunities for Fast Charging of Solid-State Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3734-3749.	17.4	76
3	Fast Charging of Lithium-ion Batteries via Electrode Engineering. <i>Journal of the Electrochemical Society</i> , 2020, 167, 090508.	2.9	57
4	Surface diffusion manifestation in electrodeposition of metal anodes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11286-11295.	2.8	53
5	Mesoscale Interrogation Reveals Mechanistic Origins of Lithium Filaments along Grain Boundaries in Inorganic Solid Electrolytes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	39
6	Morphology-Safety Implications of Interfacial Evolution in Lithium Metal Anodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16784-16795.	3.1	17
7	Co-Electrodeposition Mechanism in Rechargeable Metal Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2190-2197.	17.4	17
8	Kinetics or Transport: Whither Goes the Solid-State Battery Cathode?. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29754-29765.	8.0	14
9	Advancements in extreme fast charging to foster sustainable electrification. <i>One Earth</i> , 2022, 5, 216-219.	6.8	11
10	Chemomechanical Interactions Dictate Lithium Surface Diffusion Kinetics in the Solid Electrolyte Interphase. <i>Langmuir</i> , 2022, 38, 5472-5480.	3.5	8
11	“Dead” Lithium or back from the “dead”? <i>Joule</i> , 2022, 6, 291-293.	24.0	7
12	Mechanistic Insight into Lithium Electrodeposition in Porous Host Architectures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25369-25375.	3.1	3
13	Multiscale modeling of physicochemical interactions in lithium-sulfur battery electrodes. , 2022, , 123-158.		1