

Shriram

List of Publications by Year in descending order

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33
papers

3,292
citations

394421

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docs citations

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times ranked

3209
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Control of Megawatt-Scale Charging Stations for Electric Trucks With Distributed Energy Resources. <i>IEEE Transactions on Transportation Electrification</i> , 2023, 9, 4951-4963.	7.8	8
2	Application of electron backscatter diffraction techniques to quantify effects of aging on sub-grain and spatial heterogeneity in NMC cathodes. <i>Energy Storage Materials</i> , 2022, 44, 342-352.	18.0	7
3	Lithium nitride coatings deposited by magnetron sputtering on sulfide electrolytes for solid-state batteries. <i>MRS Communications</i> , 2022, 12, 352-357.	1.8	2
4	A Framework to Analyze the Requirements of a Multiport Megawatt-Level Charging Station for Heavy-Duty Electric Vehicles. <i>Energies</i> , 2022, 15, 3788.	3.1	7
5	Mechanical Pulverization of Co-Free Nickel-Rich Cathodes for Improved High-Voltage Cycling of Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 6996-7005.	5.1	12
6	Modeling strategy for progressive failure prediction in lithium-ion batteries under mechanical abuse. <i>ETransportation</i> , 2021, 7, 100098.	14.8	49
7	Modeling cell venting and gas-phase reactions in 18650 lithium ion batteries during thermal runaway. <i>Journal of Power Sources</i> , 2021, 489, 229496.	7.8	68
8	Operando Measurements of Electrolyte Li-ion Concentration during fast charging with FTIR/ATR. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090502.	2.9	7
9	Understanding extreme fast charge limitations in carbonate mixtures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4858-4869.	10.3	21
10	Transport Processes in a Li-ion Cell during an Internal Short-Circuit. <i>Journal of the Electrochemical Society</i> , 2020, 167, 090554.	2.9	14
11	Defect chemistry of disordered solid-state electrolyte $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3851-3858.	10.3	27
12	Modeling extreme deformations in lithium ion batteries. <i>ETransportation</i> , 2020, 4, 100065.	14.8	33
13	Review "Thermal Safety Management in Li-Ion Batteries: Current Issues and Perspectives. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140516.	2.9	25
14	Impacts of Solvent Washing on the Electrochemical Remediation of Commercial End-Of-Life Cathodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 12212-12229.	5.1	3
15	Electrochemical Properties and Challenges of Type II Silicon Clathrate Anode in Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3051-A3058.	2.9	6
16	Numerical investigation of thermal runaway mitigation through a passive thermal management system. <i>Journal of Power Sources</i> , 2019, 429, 80-88.	7.8	74
17	Dynamic mechanical behavior of lithium-ion pouch cells subjected to high-velocity impact. <i>Composite Structures</i> , 2019, 218, 50-59.	5.8	40
18	Characterization of Aged Li-Ion Battery Components for Direct Recycling Process Design. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3775-A3783.	2.9	15

#	ARTICLE	IF	CITATIONS
19	A Coupled Electrochemical-Thermal Failure Model for Predicting the Thermal Runaway Behavior of Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A3748-A3765.	2.9	98
20	Operando X-ray photoelectron spectroscopy of solid electrolyte interphase formation and evolution in Li ₂ S-P ₂ S ₅ solid-state electrolytes. Nature Communications, 2018, 9, 2490.	12.8	170
21	Constitutive behavior and progressive mechanical failure of electrodes in lithium-ion batteries. Journal of Power Sources, 2017, 357, 126-137.	7.8	133
22	Estimating parameters from rotating ring disc electrode measurements. Russian Journal of Electrochemistry, 2017, 53, 1087-1099.	0.9	7
23	Enabling fast charging “ Battery thermal considerations. Journal of Power Sources, 2017, 367, 228-236.	7.8	216
24	Degradation mechanisms and lifetime prediction for lithium-ion batteries — A control perspective. , 2015, , .		19
25	Coupled mechanical-electrical-thermal modeling for short-circuit prediction in a lithium-ion cell under mechanical abuse. Journal of Power Sources, 2015, 290, 102-113.	7.8	184
26	A representative-sandwich model for simultaneously coupled mechanical-electrical-thermal simulation of a lithium-ion cell under quasi-static indentation tests. Journal of Power Sources, 2015, 298, 309-321.	7.8	106
27	Battery Energy Storage System (BESS) and Battery Management System (BMS) for Grid-Scale Applications. Proceedings of the IEEE, 2014, 102, 1014-1030.	21.3	468
28	Quantifying Cell-to-Cell Variations in Lithium Ion Batteries. International Journal of Electrochemistry, 2012, 2012, 1-10.	2.4	72
29	P-type doping of lithium peroxide with carbon sheets. Applied Physics Letters, 2012, 101, .	3.3	19
30	Multi-Domain Modeling of Lithium-Ion Batteries Encompassing Multi-Physics in Varied Length Scales. Journal of the Electrochemical Society, 2011, 158, A955.	2.9	277
31	Theoretical Analysis of Stresses in a Lithium Ion Cell. Journal of the Electrochemical Society, 2010, 157, A155.	2.9	205
32	Analysis of internal short-circuit in a lithium ion cell. Journal of Power Sources, 2009, 194, 550-557.	7.8	268
33	Review of models for predicting the cycling performance of lithium ion batteries. Journal of Power Sources, 2006, 156, 620-628.	7.8	632