

Shriram

List of Publications by Year in descending order

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33
papers

3,292
citations

394421

19
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

3209
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of models for predicting the cycling performance of lithium ion batteries. Journal of Power Sources, 2006, 156, 620-628.	7.8	632
2	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
3	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
4	Analysis of internal short-circuit in a lithium ion cell. Journal of Power Sources, 2009, 194, 550-557.	7.8	268
5	Enabling fast charging “ Battery thermal considerations. Journal of Power Sources, 2017, 367, 228-236.	7.8	216
6	Theoretical Analysis of Stresses in a Lithium Ion Cell. Journal of the Electrochemical Society, 2010, 157, A155.	2.9	205
7	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
8	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
9	Constitutive behavior and progressive mechanical failure of electrodes in lithium-ion batteries. Journal of Power Sources, 2017, 357, 126-137.	7.8	133
10	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
11	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
12	Numerical investigation of thermal runaway mitigation through a passive thermal management system. Journal of Power Sources, 2019, 429, 80-88.	7.8	74
13	Quantifying Cell-to-Cell Variations in Lithium Ion Batteries. International Journal of Electrochemistry, 2012, 2012, 1-10.	2.4	72
14	Modeling cell venting and gas-phase reactions in 18650 lithium ion batteries during thermal runaway. Journal of Power Sources, 2021, 489, 229496.	7.8	68
15	Modeling strategy for progressive failure prediction in lithium-ion batteries under mechanical abuse. ETransportation, 2021, 7, 100098.	14.8	49
16	Dynamic mechanical behavior of lithium-ion pouch cells subjected to high-velocity impact. Composite Structures, 2019, 218, 50-59.	5.8	40
17	Modeling extreme deformations in lithium ion batteries. ETransportation, 2020, 4, 100065.	14.8	33
18	Defect chemistry of disordered solid-state electrolyte Li ₁₀ GeP ₂ S ₁₂ . Journal of Materials Chemistry A, 2020, 8, 3851-3858.	10.3	27

#	ARTICLE	IF	CITATIONS
19	Review "Thermal Safety Management in Li-Ion Batteries: Current Issues and Perspectives. Journal of the Electrochemical Society, 2020, 167, 140516.	2.9	25
20	Understanding extreme fast charge limitations in carbonate mixtures. Journal of Materials Chemistry A, 2021, 9, 4858-4869.	10.3	21
21	P-type doping of lithium peroxide with carbon sheets. Applied Physics Letters, 2012, 101, .	3.3	19
22	Degradation mechanisms and lifetime prediction for lithium-ion batteries — A control perspective. , 2015, , .		19
23	Characterization of Aged Li-Ion Battery Components for Direct Recycling Process Design. Journal of the Electrochemical Society, 2019, 166, A3775-A3783.	2.9	15
24	Transport Processes in a Li-ion Cell during an Internal Short-Circuit. Journal of the Electrochemical Society, 2020, 167, 090554.	2.9	14
25	Mechanical Pulverization of Co-Free Nickel-Rich Cathodes for Improved High-Voltage Cycling of Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 6996-7005.	5.1	12
26	Hierarchical Control of Megawatt-Scale Charging Stations for Electric Trucks With Distributed Energy Resources. IEEE Transactions on Transportation Electrification, 2023, 9, 4951-4963.	7.8	8
27	Estimating parameters from rotating ring disc electrode measurements. Russian Journal of Electrochemistry, 2017, 53, 1087-1099.	0.9	7
28	Operando Measurements of Electrolyte Li-ion Concentration during fast charging with FTIR/ATR. Journal of the Electrochemical Society, 2021, 168, 090502.	2.9	7
29	Application of electron backscatter diffraction techniques to quantify effects of aging on sub-grain and spatial heterogeneity in NMC cathodes. Energy Storage Materials, 2022, 44, 342-352.	18.0	7
30	A Framework to Analyze the Requirements of a Multiport Megawatt-Level Charging Station for Heavy-Duty Electric Vehicles. Energies, 2022, 15, 3788.	3.1	7
31	Electrochemical Properties and Challenges of Type II Silicon Clathrate Anode in Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3051-A3058.	2.9	6
32	Impacts of Solvent Washing on the Electrochemical Remediation of Commercial End-Of-Life Cathodes. ACS Applied Energy Materials, 2020, 3, 12212-12229.	5.1	3
33	Lithium nitride coatings deposited by magnetron sputtering on sulfide electrolytes for solid-state batteries. MRS Communications, 2022, 12, 352-357.	1.8	2