Xiang Gao

List of Publications by Year
in descending order

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18	809	759233 12	888059 17
papers	citations	h-index	g-index

18	18	18	712
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploration on Nonaxisymmetric Flow Phenomenon in a Slinger Injector. Journal of the American Helicopter Society, 2022, , .	0.8	0
2	Mechanics-Driven Anode Material Failure in Battery Safety and Capacity Deterioration Issues: A Review. Applied Mechanics Reviews, 2022, 74, .	10.1	16
3	Three-Dimensional Modeling of Electrochemical Behavior in SiO/Graphite Composite Anode for High Energy Density Lithium-Ion Battery. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	2.1	7
4	Unlocking multiphysics design guidelines on Si/C composite nanostructures for high-energy-density and robust lithium-ion battery anode. Nano Energy, 2021, 81, 105591.	16.0	40
5	Effective thermo-electro-mechanical modeling framework of lithium-ion batteries based on a representative volume element approach. Journal of Energy Storage, 2021, 33, 102090.	8.1	22
6	Dataâ€Driven Safety Risk Prediction of Lithiumâ€Ion Battery. Advanced Energy Materials, 2021, 11, 2003868.	19.5	55
7	Insights into the Li Diffusion Mechanism in Si/C Composite Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 21362-21370.	8.0	27
8	Coupled crack propagation and dendrite growth in solid electrolyte of all-solid-state battery. Nano Energy, 2021, 86, 106057.	16.0	51
9	Multiscale Modeling of Electro-Chemo-Mechanical Degradation in Si/C Coreâ€“Shell Anode for the Lithium-Ion Battery of High Energy Density. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	2.1	8
10	Safety issues and mechanisms of lithium-ion battery cell upon mechanical abusive loading: A review. Energy Storage Materials, 2020, 24, 85-112.	18.0	395
11	Modeling framework for multiphysics-multiscale behavior of Siâ€“C composite anode. Journal of Power Sources, 2020, 449, 227501.	7.8	39
12	Fabrication and multiphysics modeling of modified carbon fiber as structural anodes for lithium-ion batteries. Journal of Power Sources, 2020, 476, 228532.	7.8	21
13	Design of composite lattice materials combined with fabrication approaches. Journal of Composite Materials, 2019, 53, 393-404.	2.4	19
14	Modeling of contact stress among compound particles in high energy lithium-ion battery. Energy Storage Materials, 2019, 18, 23-33.	18.0	54
15	A Multiphysics Computational Framework for Cylindrical Battery Behavior upon Mechanical Loading Based on LS-DYNA. Journal of the Electrochemical Society, 2019, 166, A1160-A1169.	2.9	36
16	Thermal decomposition followed by acid etching to synthesize Fe3O4@C for lithium storage. Journal of Materials Science: Materials in Electronics, 2019, 30, 91-97.	2.2	1
17	Improving the Performance of Microâ€Silicon Anodes in Lithiumâ€Ion Batteries with a Functional Carbon Nanotube Interlayer. ChemElectroChem, 2018, 5, 3143-3149.	3.4	11
18	Strain Rate and Anisotropic Microstructure Dependent Mechanical Behaviors of Silkworm Cocoon Shells. PLoS ONE, 2016, 11, e0149931.	2.5	7