

Yu-Yang Lu

List of Publications by Year in descending order

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14
papers

723
citations

1040056

9
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

1140
citing authors

#	ARTICLE	IF	CITATIONS
1	Extremely fast-charging lithium ion battery enabled by dual-gradient structure design. <i>Science Advances</i> , 2022, 8, eabm6624.	10.3	50
2	Effect of plasticity on voltage decay studied by a stress coupled phase field reaction model. <i>Extreme Mechanics Letters</i> , 2021, 42, 101152.	4.1	7
3	High rate capability composite particles with root-inspired hierarchical channel structure. <i>Journal of Power Sources</i> , 2021, 494, 229777.	7.8	1
4	Real-Time Visualization of Solid-Phase Ion Migration Kinetics on Nanowire Monolayer. <i>Journal of the American Chemical Society</i> , 2020, 142, 7968-7975.	13.7	10
5	Diatomite derived hierarchical hybrid anode for high performance all-solid-state lithium metal batteries. <i>Nature Communications</i> , 2019, 10, 2482.	12.8	96
6	Bio-inspired low-tortuosity carbon host for high-performance lithium-metal anode. <i>National Science Review</i> , 2019, 6, 247-256.	9.5	57
7	Understanding size-dependent migration of a two-phase lithiation front coupled to stress. <i>Acta Mechanica</i> , 2019, 230, 303-317.	2.1	9
8	Phase field model for two-phase lithiation in an arbitrarily shaped elastoplastic electrode particle under galvanostatic and potentiostatic operations. <i>International Journal of Solids and Structures</i> , 2018, 143, 73-83.	2.7	25
9	Wood-inspired High-Performance Ultrathick Bulk Battery Electrodes. <i>Advanced Materials</i> , 2018, 30, e1706745.	21.0	205
10	Phase-field simulation of the coupled evolutions of grain and twin boundaries in nanotwinned polycrystals. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018, 39, 1789-1804.	3.6	4
11	Bioinspired polymeric woods. <i>Science Advances</i> , 2018, 4, eaat7223.	10.3	219
12	Stress-mediated lithiation in nanoscale phase transformation electrodes. <i>Acta Mechanica Sinica</i> , 2017, 30, 248-253.	1.9	8
13	Transition from Deceleration to Acceleration of Lithiation Front Movement in Hollow Phase Transformation Electrodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3371-A3379.	2.9	4
14	Effects of particle shape and concurrent plasticity on stress generation during lithiation in particulate Li-ion battery electrodes. <i>Mechanics of Materials</i> , 2015, 91, 372-381.	3.2	28