

Haoran Wang

List of Publications by Year in descending order

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14
papers

370
citations

1039406

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1058022

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754
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison between Cellulose Nanocrystal and Cellulose Nanofibril Reinforced Poly(ethylene oxide) Nanofibers and Their Novel Shish-Kebab-Like Crystalline Structures. <i>Macromolecules</i> , 2014, 47, 3409-3416.	2.2	124
2	High damage tolerance of electrochemically lithiated silicon. <i>Nature Communications</i> , 2015, 6, 8417.	5.8	96
3	Molecular dynamics simulations of plasticity and cracking in lithiated silicon electrodes. <i>Extreme Mechanics Letters</i> , 2016, 9, 503-513.	2.0	32
4	Nanoscale Mechanics of the Solid Electrolyte Interphase on Lithiated-Silicon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25662-25667.	4.0	21
5	Brittle-to-ductile transition of lithiated silicon electrodes: Craze to stable nanopore growth. <i>Journal of Chemical Physics</i> , 2015, 143, 104703.	1.2	18
6	Atomic-Scale Mechanisms of Sliding along an Interdiffused Li-Si-Cu Interface. <i>Nano Letters</i> , 2015, 15, 1716-1721.	4.5	15
7	Modeling uncertainties in molecular dynamics simulations using a stochastic reduced-order basis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 354, 37-55.	3.4	15
8	Nematic liquid crystalline elastomers are aeolotropic materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20210259.	1.0	12
9	A review of the multiscale mechanics of silicon electrodes in high-capacity lithium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 063001.	1.3	9
10	Chemical and Mechanical Properties Studies of Chinese Linen Flax and Its Composites. <i>Polymers and Polymer Composites</i> , 2013, 21, 275-286.	1.0	8
11	Stochastic analysis of geometrically imperfect thin cylindrical shells using topology-aware uncertainty models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 393, 114780.	3.4	8
12	Transient viscoelasticity study of tobacco mosaic virus/Ba ²⁺ superlattice. <i>Nanoscale Research Letters</i> , 2014, 9, 300.	3.1	5
13	Nanomechanical characterization of rod-like superlattice assembled from tobacco mosaic viruses. <i>Journal of Applied Physics</i> , 2013, 113, 024308.	1.1	4
14	Nanofibrillar Si Helices for Low-Stress, High-Capacity Li ⁺ Anodes with Large Affine Deformations. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11715-11721.	4.0	3