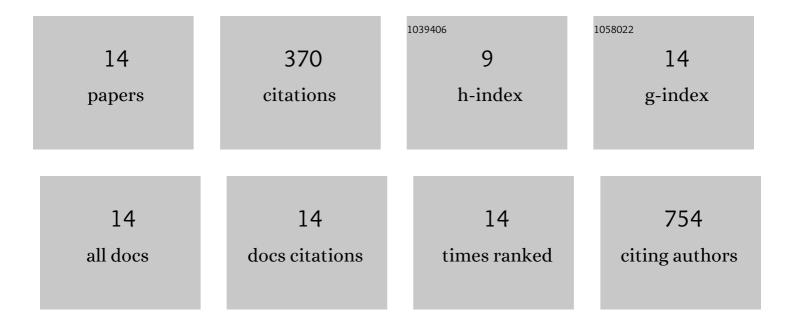
Haoran Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review of the multiscale mechanics of silicon electrodes in high-capacity lithium-ion batteries. Journal Physics D: Applied Physics, 2022, 55, 063001.	1.3	9
2	Stochastic analysis of geometrically imperfect thin cylindrical shells using topology-aware uncertainty models. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114780.	3.4	8
3	Nematic liquid crystalline elastomers are aeolotropic materials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210259.	1.0	12
4	Modeling uncertainties in molecular dynamics simulations using a stochastic reduced-order basis. Computer Methods in Applied Mechanics and Engineering, 2019, 354, 37-55.	3.4	15
5	Nanofibrillar Si Helices for Low-Stress, High-Capacity Li ⁺ Anodes with Large Affine Deformations. ACS Applied Materials & Interfaces, 2019, 11, 11715-11721.	4.0	3
6	Nanoscale Mechanics of the Solid Electrolyte Interphase on Lithiated-Silicon Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 25662-25667.	4.0	21
7	Molecular dynamics simulations of plasticity and cracking in lithiated silicon electrodes. Extreme Mechanics Letters, 2016, 9, 503-513.	2.0	32
8	Brittle-to-ductile transition of lithiated silicon electrodes: Crazing to stable nanopore growth. Journal of Chemical Physics, 2015, 143, 104703.	1.2	18
9	Atomic-Scale Mechanisms of Sliding along an Interdiffused Li–Si–Cu Interface. Nano Letters, 2015, 15, 1716-1721.	4.5	15
10	High damage tolerance of electrochemically lithiated silicon. Nature Communications, 2015, 6, 8417.	5.8	96
11	Transient viscoelasticity study of tobacco mosaic virus/Ba2+ superlattice. Nanoscale Research Letters, 2014, 9, 300.	3.1	5
12	Comparison between Cellulose Nanocrystal and Cellulose Nanofibril Reinforced Poly(ethylene oxide) Nanofibers and Their Novel Shish-Kebab-Like Crystalline Structures. Macromolecules, 2014, 47, 3409-3416.	2.2	124
13	Nanomechanical characterization of rod-like superlattice assembled from tobacco mosaic viruses. Journal of Applied Physics, 2013, 113, 024308.	1.1	4
14	Chemical and Mechanical Properties Studies of Chinese Linen Flax and Its Composites. Polymers and Polymer Composites, 2013, 21, 275-286.	1.0	8