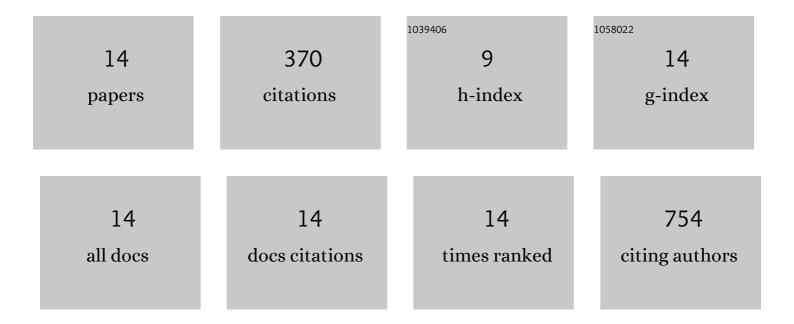
Haoran Wang

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 |