Sulin Zhang

List of Publications by Year in descending order

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SULIN ZHANC

#	Article	IF	CITATIONS
1	In situ Observation of Li Depositionâ€Induced Cracking in Garnet Solid Electrolytes. Energy and Environmental Materials, 2022, 5, 524-532.	12.8	36
2	Spatiotemporal Oscillation in Confined Epithelial Motion upon Fluid-to-Solid Transition. ACS Nano, 2021, 15, 7618-7627.	14.6	12
3	Molecular insights into the complex mechanics of plant epidermal cell walls. Science, 2021, 372, 706-711.	12.6	148
4	Progressive growth of the solid–electrolyte interphase towards the Si anode interior causes capacity fading. Nature Nanotechnology, 2021, 16, 1113-1120.	31.5	147
5	Lithium Deposition-Induced Fracture of Carbon Nanotubes and Its Implication to Solid-State Batteries. Nano Letters, 2021, 21, 6859-6866.	9.1	9
6	Molecular Ferroelectricâ€Based Flexible Sensors Exhibiting Supersensitivity and Multimodal Capability for Detection. Advanced Materials, 2021, 33, e2104107.	21.0	29
7	Mechanical forces drive a reorientation cascade leading to biofilm self-patterning. Nature Communications, 2021, 12, 6632.	12.8	41
8	Lithium whisker growth and stress generation in an in situ atomic force microscope–environmental transmission electron microscope set-up. Nature Nanotechnology, 2020, 15, 94-98.	31.5	217
9	Actin-ring segment switching drives nonadhesive gap closure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33263-33271.	7.1	12
10	Molar-volume asymmetry enabled low-frequency mechanical energy harvesting in electrochemical cells. Applied Energy, 2020, 273, 115230.	10.1	12
11	Highly Stretchable Polymer Composite with Strainâ€Enhanced Electromagnetic Interference Shielding Effectiveness. Advanced Materials, 2020, 32, e1907499.	21.0	242
12	Extracellular and intercellular force distribution in circularly shaped epithelia. Extreme Mechanics Letters, 2019, 31, 100526.	4.1	10
13	Probing the Origin of Gold Dissolution and Tunneling Across Ni ₂ P Shell Using in situ Transmission Electron Microscopy. ACS Applied Materials & Interfaces, 2019, 11, 46947-46952.	8.0	2
14	Nanoconfinementâ€Induced Giant Electrocaloric Effect in Ferroelectric Polymer Nanowire Array Integrated with Aluminum Oxide Membrane to Exhibit Record Cooling Power Density. Advanced Materials, 2019, 31, e1806642.	21.0	56
15	Ferroelectric Polymer Nanocomposites with Complementary Nanostructured Fillers for Electrocaloric Cooling with High Power Density and Great Efficiency. ACS Applied Energy Materials, 2018, 1, 1344-1354.	5.1	42
16	Flexible three-dimensional interconnected piezoelectric ceramic foam based composites for highly efficient concurrent mechanical and thermal energy harvesting. Energy and Environmental Science, 2018, 11, 2046-2056.	30.8	188
17	Active cell-matrix coupling regulates cellular force landscapes of cohesive epithelial monolayers. Npj Computational Materials, 2018, 4, .	8.7	13
18	Mechanotargeting: Mechanicsâ€Dependent Cellular Uptake of Nanoparticles. Advanced Materials, 2018, 30. e1707464.	21.0	38

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19	Coupling of electrochemically triggered thermal and mechanical effects to aggravate failure in a layered cathode. Nature Communications, 2018, 9, 2437.	12.8	200
20	Mechanical mismatch-driven rippling in carbon-coated silicon sheets for stress-resilient battery anodes. Nature Communications, 2018, 9, 2924.	12.8	94
21	ReaxFF Reactive Force-Field Study of Molybdenum Disulfide (MoS ₂). Journal of Physical Chemistry Letters, 2017, 8, 631-640.	4.6	126
22	Two-Fold Anisotropy Governs Morphological Evolution and Stress Generation in Sodiated Black Phosphorus for Sodium Ion Batteries. Nano Letters, 2017, 17, 2299-2306.	9.1	48
23	Chemomechanical modeling of lithiation-induced failure in high-volume-change electrode materials for lithium ion batteries. Npj Computational Materials, 2017, 3, .	8.7	86
24	The role of substrate topography on the cellular uptake of nanoparticles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 488-495.	3.4	31
25	Reversible host cell remodeling underpins deformability changes in malaria parasite sexual blood stages. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4800-4805.	7.1	73
26	Electrochemically driven mechanical energy harvesting. Nature Communications, 2016, 7, 10146.	12.8	123
27	Inward lithium-ion breathing of hierarchically porous silicon anodes. Nature Communications, 2015, 6, 8844.	12.8	217
28	Strong kinetics-stress coupling in lithiation of Si and Ge anodes. Extreme Mechanics Letters, 2015, 2, 1-6.	4.1	66
29	Cooperative Transmembrane Penetration of Nanoparticles. Scientific Reports, 2015, 5, 10525.	3.3	51
30	Physical Principles of Nanoparticle Cellular Endocytosis. ACS Nano, 2015, 9, 8655-8671.	14.6	852
31	Multiple stiffening effects of nanoscale knobs on human red blood cells infected with <i>Plasmodium falciparum</i> malaria parasite. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6068-6073.	7.1	108
32	Germaniumâ€Based Electrode Materials for Lithiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 706-713.	3.4	59
33	Lithiation induced corrosive fracture in defective carbon nanotubes. Applied Physics Letters, 2013, 103, .	3.3	27
34	Chemomechanics control of tearing paths in graphene. Physical Review B, 2012, 85, .	3.2	33
35	In Situ TEM Experiments of Electrochemical Lithiation and Delithiation of Individual Nanostructures. Advanced Energy Materials, 2012, 2, 722-741.	19.5	341
36	Radial Corrugations of Multi-Walled Carbon Nanotubes Driven by Inter-Wall Nonbonding Interactions. Nanoscale Research Letters, 2011, 6, 53.	5.7	17

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37	Anisotropic Swelling and Fracture of Silicon Nanowires during Lithiation. Nano Letters, 2011, 11, 3312-3318.	9.1	691
38	Membrane-Mediated Inter-Domain Interactions. BioNanoScience, 2011, 1, 97-102.	3.5	4
39	Coordinated buckling of thick multi-walled carbon nanotubes under uniaxial compression. Nano Research, 2010, 3, 32-42.	10.4	22
40	Coarseâ€grained molecular dynamics modeling of DNA–carbon nanotube complexes. International Journal for Numerical Methods in Engineering, 2010, 83, 968-985.	2.8	18
41	Dynamic shape transformations of fluid vesicles. Soft Matter, 2010, 6, 4571.	2.7	43
42	Effective coarse-grained simulations of super-thick multi-walled carbon nanotubes under torsion. Journal of Applied Physics, 2009, 105, 033516.	2.5	19