Lihua Jin

List of Publications by Year
in descending order

35 papers	2,311 citations	471509 17 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	3439 citing authors

#	Article	IF	Citations
1	Robotic Tentacles with Threeâ€Dimensional Mobility Based on Flexible Elastomers. Advanced Materials, 2013, 25, 205-212.	21.0	580
2	Syringe-injectable electronics. Nature Nanotechnology, 2015, 10, 629-636.	31.5	543
3	Soft phototactic swimmer based on self-sustained hydrogel oscillator. Science Robotics, 2019, 4, .	17.6	258
4	A stretchable and strain-unperturbed pressure sensor for motion interferenceâ€“free tactile monitoring on skins. Science Advances, 2021, 7, eabi4563.	10.3	136
5	Blueprinting Photothermal Shapeâ€Morphing of Liquid Crystal Elastomers. Advanced Materials, 2020, 32, e2000609.	21.0	110
6	Phase-transforming and switchable metamaterials. Extreme Mechanics Letters, 2016, 6, 1-9.	4.1	77
7	Creases in soft tissues generated by growth. Europhysics Letters, 2011, 95, 64002.	2.0	74
8	Dynamic Agâ€“N Bond Enhanced Stretchable Conductor for Transparent and Self-Healing Electronic Skin. ACS Applied Materials & Interfaces, 2020, 12, 1486-1494.	8.0	53
9	Programmable Granular Metamaterials for Reusable Energy Absorption. Advanced Functional Materials, 2019, 29, 1901258.	14.9	44
10	Thermomechanical modeling of the thermo-orderâ€“mechanical coupling behaviors in liquid crystal elastomers. Journal of the Mechanics and Physics of Solids, 2010, 58, 1907-1927.	4.8	39
11	Smoothening creases on surfaces of strain-stiffening materials. Journal of the Mechanics and Physics of Solids, 2015, 74, 68-79.	4.8	33
12	Controlled formation and disappearance of creases. Materials Horizons, 2014, 1, 207-213.	12.2	32
13	Creases on the interface between two soft materials. Soft Matter, 2014, 10, 303-311.	2.7	32
14	Reusable Energyâ€Absorbing Architected Materials Harnessing Snappingâ€Back Buckling of Wide Hyperelastic Columns. Advanced Functional Materials, 2021, 31, 2102113.	14.9	26
15	Geometric role in designing pneumatically actuated pattern-transforming metamaterials. Extreme Mechanics Letters, 2018, 23, 55-66.	4.1	21
16	Coassembly Kinetics of Graphene Oxide and Block Copolymers at the Water/Oil Interface. Langmuir, 2017, 33, 8961-8969.	3.5	20
17	Measuring the elastic modulus of microgels using microdrops. Soft Matter, 2012, 8, 10032.	2.7	18
18	Creasing in evaporation-driven cavity collapse. Soft Matter, 2017, 13, 6894-6904.	2.7	18

#	Article	IF	Citations
19	Elastocapillary Crease. Physical Review Letters, 2019, 122, 098003.	7.8	18
20	Snapping-back buckling of wide hyperelastic columns. Extreme Mechanics Letters, 2020, 34, 100600.	4.1	18
21	Concurrent reaction and diffusion in photo-responsive hydrogels. Journal of the Mechanics and Physics of Solids, 2019, 124, 599-611.	4.8	17
22	Directly Probing the Fracture Behavior of Ultrathin Polymeric Films. ACS Polymers Au, 2021, 1, 16-29.	4.1	16
23	Hydrolysis-induced large swelling of polyacrylamide hydrogels. Soft Matter, 2020, 16, 5740-5749.	2.7	16
24	Electrolyte Modulators toward Polarizationâ€Mitigated Lithiumâ€Ion Batteries for Sustainable Electric Transportation. Advanced Materials, 2022, 34, e2107787.	21.0	15
25	From continuous to snapping-back buckling: A post-buckling analysis for hyperelastic columns under axial compression. International Journal of Non-Linear Mechanics, 2020, 125, 103532.	2.6	13
26	Harnessing Friction in Intertwined Structures for Highâ€Capacity Reusable Energyâ€Absorbing Architected Materials. Advanced Science, 2022, 9, e2105769.	11.2	13
27	Pattern formation in plastic liquid films on elastomers by ratcheting. Soft Matter, 2016, 12, 3820-3827.	2.7	10
28	Realâ€Time Quantification of Cell Internalization Kinetics by Functionalized Bioluminescent Nanoprobes. Advanced Materials, 2019, 31, e1902469.	21.0	10
29	Spatiotemporally Programmable Surfaces via Viscoelastic Shell Snapping. Advanced Intelligent Systems, 2022, 4, .	6.1	10
30	Unusual stress and strain concentration behaviors at the circular hole of a large monodomain liquid crystal elastomer sheet. Journal of the Mechanics and Physics of Solids, 2021, 156, 104615.	4.8	9
31	Characterization of perfused and sectioned liver tissue in a full indentation cycle using a visco-hyperelastic model. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 591-603.	3.1	8
32	Effect of imperfections on pseudo-bistability of viscoelastic domes. Extreme Mechanics Letters, 2021, 49, 101477.	4.1	7
33	Photodriven Self-Excited Hydrogel Oscillators. Physical Review Applied, 2022, 17, .	3.8	5
34	Formation of rolls from liquid crystal elastomer bistrips. Soft Matter, 2022, 18, 4077-4089.	2.7	2
35	Granular Metamaterials: Programmable Granular Metamaterials for Reusable Energy Absorption (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	14.9	0