Qihan Liu

List of Publications by Year in descending order

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35 papers	3,336 citations	331670 21 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	6194 citing authors

#	Article	IF	Citations
1	Rate-dependent creasing of a viscoelastic liquid. Extreme Mechanics Letters, 2022, 55, 101784.	4.1	5
2	Recreating the heartâ€™s helical structure-function relationship with focused rotary jet spinning. Science, 2022, 377, 180-185.	12.6	47
3	A bioinspired and hierarchically structured shape-memory material. Nature Materials, 2021, 20, 242-249.	27.5	96
4	Drop Spreading and Confinement in Swelling-Driven Folding of Thin Films. Langmuir, 2021, 37, 6985-6994.	3.5	6
5	Ionotronic Luminescent Fibers, Fabrics, and Other Configurations. Advanced Materials, 2020, 32, e2005545.	21.0	63
6	Fattening chips: hypertrophy, feeding, and fasting of human white adipocytesin vitro. Lab on A Chip, 2020, 20, 4152-4165.	6.0	10
7	Giant Poisson's Effect for Wrinkleâ€Free Stretchable Transparent Electrodes. Advanced Materials, 2019, 31, e1902955.	21.0	38
8	Synchronized stimulation and continuous insulin sensing in a microfluidic human Islet on a Chip designed for scalable manufacturing. Lab on A Chip, 2019, 19, 2993-3010.	6.0	74
9	Design Molecular Topology for Wetâ€“Dry Adhesion. ACS Applied Materials & Interfaces, 2019, 11, 24802-24811.	8.0	76
10	Elastocapillary Crease. Physical Review Letters, 2019, 122, 098003.	7.8	18
11	Bonding dissimilar polymer networks in various manufacturing processes. Nature Communications, 2018, 9, 846.	12.8	209
12	Mixing by shear, dilation, swap, and diffusion. Journal of the Mechanics and Physics of Solids, 2018, 112, 253-272.	4.8	8
13	A viscoelastic beam theory of polymer jets with application to rotary jet spinning. Extreme Mechanics Letters, 2018, 25, 37-44.	4.1	11
14	Mussel-inspired 3D fiber scaffolds for heart-on-a-chip toxicity studies of engineered nanomaterials. Analytical and Bioanalytical Chemistry, 2018, 410, 6141-6154.	3.7	66
15	Traction force microscopy of engineered cardiac tissues. PLoS ONE, 2018, 13, e0194706.	2.5	52
16	Extrusion, slide, and rupture of an elastomeric seal. Journal of the Mechanics and Physics of Solids, 2017, 99, 289-303.	4.8	23
17	A highly stretchable and robust non-fluorinated superhydrophobic surface. Journal of Materials Chemistry A, 2017, 5, 16273-16280.	10.3	89
18	Wearable and Washable Conductors for Active Textiles. ACS Applied Materials & Interfaces, 2017, 9, 25542-25552.	8.0	118

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19	Reversible Electrochemically Triggered Delamination Blistering of Hydrogel Films on Micropatterned Electrodes. Advanced Functional Materials, 2016, 26, 3218-3225.	14.9	28
20	Mechanistic Study for Facile Electrochemical Patterning of Surfaces with Metal Oxides. ACS Nano, 2016, 10, 5321-5325.	14.6	3
21	Shear, dilation, and swap: Mixing in the limit of fast diffusion. Journal of the Mechanics and Physics of Solids, 2016, 96, 48-64.	4.8	10
22	A transparent bending-insensitive pressure sensor. Nature Nanotechnology, 2016, 11, 472-478.	31.5	680
23	Osmocapillary phase separation. Extreme Mechanics Letters, 2016, 7, 27-33.	4.1	17
24	Brownian Motion of Molecular Probes in Supercooled Liquids. Physical Review Letters, 2015, 114, 224301.	7.8	14
25	Elastic Leak for a Better Seal. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	2.2	10
26	Electronic dura mater for long-term multimodal neural interfaces. Science, 2015, 347, 159-163.	12.6	845
27	Fatigue-free, superstretchable, transparent, and biocompatible metal electrodes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12332-12337.	7.1	89
28	Mechanics of Supercooled Liquids. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	6
29	Elastic leak of a seal. Extreme Mechanics Letters, 2014, 1, 54-61.	4.1	31
30	Highly stretchable and transparent nanomesh electrodes made by grain boundary lithography. Nature Communications, 2014, 5, 3121.	12.8	367
31	Elastomeric substrates with embedded stiff platforms for stretchable electronics. Applied Physics Letters, 2013, 102, .	3.3	98
32	Localization of Folds and Cracks in Thin Metal Films Coated on Flexible Elastomer Foams. Advanced Materials, 2013, 25, 3117-3121.	21.0	72
33	Kinetics of swelling under constraint. Journal of Applied Physics, 2013, 114, 064901.	2.5	15
34	Multifunctional actuation systems responding to chemical gradients. Soft Matter, 2012, 8, 8289.	2.7	12
35	Modeling kinetics of diffusion-controlled surface wrinkles. Physical Review E, 2011, 84, 051604.	2.1	29