

# Qihan Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Electronic dura mater for long-term multimodal neural interfaces. <i>Science</i> , 2015, 347, 159-163.	12.6	845
2	A transparent bending-insensitive pressure sensor. <i>Nature Nanotechnology</i> , 2016, 11, 472-478.	31.5	680
3	Highly stretchable and transparent nanomesh electrodes made by grain boundary lithography. <i>Nature Communications</i> , 2014, 5, 3121.	12.8	367
4	Bonding dissimilar polymer networks in various manufacturing processes. <i>Nature Communications</i> , 2018, 9, 846.	12.8	209
5	Wearable and Washable Conductors for Active Textiles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25542-25552.	8.0	118
6	Elastomeric substrates with embedded stiff platforms for stretchable electronics. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	98
7	A bioinspired and hierarchically structured shape-memory material. <i>Nature Materials</i> , 2021, 20, 242-249.	27.5	96
8	Fatigue-free, superstretchable, transparent, and biocompatible metal electrodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12332-12337.	7.1	89
9	A highly stretchable and robust non-fluorinated superhydrophobic surface. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16273-16280.	10.3	89
10	Design Molecular Topology for Wetâ€“Dry Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24802-24811.	8.0	76
11	Synchronized stimulation and continuous insulin sensing in a microfluidic human Islet on a Chip designed for scalable manufacturing. <i>Lab on A Chip</i> , 2019, 19, 2993-3010.	6.0	74
12	Localization of Folds and Cracks in Thin Metal Films Coated on Flexible Elastomer Foams. <i>Advanced Materials</i> , 2013, 25, 3117-3121.	21.0	72
13	Mussel-inspired 3D fiber scaffolds for heart-on-a-chip toxicity studies of engineered nanomaterials. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6141-6154.	3.7	66
14	Ionotronic Luminescent Fibers, Fabrics, and Other Configurations. <i>Advanced Materials</i> , 2020, 32, e2005545.	21.0	63
15	Traction force microscopy of engineered cardiac tissues. <i>PLoS ONE</i> , 2018, 13, e0194706.	2.5	52
16	Recreating the heartâ€™s helical structure-function relationship with focused rotary jet spinning. <i>Science</i> , 2022, 377, 180-185.	12.6	47
17	Giant Poisson's Effect for Wrinkleâ€“Free Stretchable Transparent Electrodes. <i>Advanced Materials</i> , 2019, 31, e1902955.	21.0	38
18	Elastic leak of a seal. <i>Extreme Mechanics Letters</i> , 2014, 1, 54-61.	4.1	31

#	ARTICLE	IF	CITATIONS
19	Modeling kinetics of diffusion-controlled surface wrinkles. <i>Physical Review E</i> , 2011, 84, 051604.	2.1	29
20	Reversible Electrochemically Triggered Delamination Blistering of Hydrogel Films on Micropatterned Electrodes. <i>Advanced Functional Materials</i> , 2016, 26, 3218-3225.	14.9	28
21	Extrusion, slide, and rupture of an elastomeric seal. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 99, 289-303.	4.8	23
22	Elastocapillary Crease. <i>Physical Review Letters</i> , 2019, 122, 098003.	7.8	18
23	Osmocapillary phase separation. <i>Extreme Mechanics Letters</i> , 2016, 7, 27-33.	4.1	17
24	Kinetics of swelling under constraint. <i>Journal of Applied Physics</i> , 2013, 114, 064901.	2.5	15
25	Brownian Motion of Molecular Probes in Supercooled Liquids. <i>Physical Review Letters</i> , 2015, 114, 224301.	7.8	14
26	Multifunctional actuation systems responding to chemical gradients. <i>Soft Matter</i> , 2012, 8, 8289.	2.7	12
27	A viscoelastic beam theory of polymer jets with application to rotary jet spinning. <i>Extreme Mechanics Letters</i> , 2018, 25, 37-44.	4.1	11
28	Elastic Leak for a Better Seal. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	2.2	10
29	Shear, dilation, and swap: Mixing in the limit of fast diffusion. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 96, 48-64.	4.8	10
30	Fattening chips: hypertrophy, feeding, and fasting of human white adipocytes <i>in vitro</i> . <i>Lab on A Chip</i> , 2020, 20, 4152-4165.	6.0	10
31	Mixing by shear, dilation, swap, and diffusion. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 253-272.	4.8	8
32	Mechanics of Supercooled Liquids. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	2.2	6
33	Drop Spreading and Confinement in Swelling-Driven Folding of Thin Films. <i>Langmuir</i> , 2021, 37, 6985-6994.	3.5	6
34	Rate-dependent creasing of a viscoelastic liquid. <i>Extreme Mechanics Letters</i> , 2022, 55, 101784.	4.1	5
35	Mechanistic Study for Facile Electrochemical Patterning of Surfaces with Metal Oxides. <i>ACS Nano</i> , 2016, 10, 5321-5325.	14.6	3