

# Liu Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

4,940  
citations

201674

27  
h-index

254184

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

5789  
citing authors

#	ARTICLE	IF	CITATIONS
1	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , 2016, 11, 566-572.	31.5	1,394
2	Graphene Electronic Tattoo Sensors. <i>ACS Nano</i> , 2017, 11, 7634-7641.	14.6	476
3	Graded intrafillable architecture-based iontronic pressure sensor with ultra-broad-range high sensitivity. <i>Nature Communications</i> , 2020, 11, 209.	12.8	426
4	Multiscale Hierarchical Design of a Flexible Piezoresistive Pressure Sensor with High Sensitivity and Wide Linearity Range. <i>Small</i> , 2018, 14, e1800819.	10.0	326
5	First Decade of Interfacial Iontronic Sensing: From Droplet Sensors to Artificial Skins. <i>Advanced Materials</i> , 2021, 33, e2003464.	21.0	155
6	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	14.9	151
7	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <i>Nature Communications</i> , 2019, 10, 5205.	12.8	148
8	Highly stable flexible pressure sensors with a quasi-homogeneous composition and interlinked interfaces. <i>Nature Communications</i> , 2022, 13, 1317.	12.8	141
9	Highly Sensitive Capacitive Pressure Sensors over a Wide Pressure Range Enabled by the Hybrid Responses of a Highly Porous Nanocomposite. <i>Advanced Materials</i> , 2021, 33, e2103320.	21.0	133
10	Stretchable and Transparent Biointerface Using Cellâ€‘Sheetâ€‘Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. <i>Advanced Functional Materials</i> , 2016, 26, 3207-3217.	14.9	123
11	Hard-magnetic elastica. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 142, 104045.	4.8	123
12	Anisotropically Fatigueâ€‘Resistant Hydrogels. <i>Advanced Materials</i> , 2021, 33, e2102011.	21.0	114
13	Iontronic pressure sensor with high sensitivity and linear response over a wide pressure range based on soft micropillared electrodes. <i>Science Bulletin</i> , 2021, 66, 1091-1100.	9.0	103
14	Graded Interlocks for Iontronic Pressure Sensors with High Sensitivity and High Linearity over a Broad Range. <i>ACS Nano</i> , 2022, 16, 4338-4347.	14.6	103
15	Electrically compensated, tattoo-like electrodes for epidermal electrophysiology at scale. <i>Science Advances</i> , 2020, 6, .	10.3	99
16	Ferromagnetic soft catheter robots for minimally invasive bioprinting. <i>Nature Communications</i> , 2021, 12, 5072.	12.8	87
17	Modular and Reconfigurable Wireless Eâ€‘Tattoos for Personalized Sensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900117.	5.8	86
18	Evolutionary design of magnetic soft continuum robots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	85

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19	A strain-programmed patch for the healing of diabetic wounds. <i>Nature Biomedical Engineering</i> , 2022, 6, 1118-1133.	22.5	82
20	Skin-electrode iontronic interface for mechanosensing. <i>Nature Communications</i> , 2021, 12, 4731.	12.8	72
21	Conformability of a Thin Elastic Membrane Laminated on a Soft Substrate With Slightly Wavy Surface. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	58
22	Airway narrowing and internal structural constraints. <i>Journal of Applied Physiology</i> , 2000, 88, 527-533.	2.5	54
23	Shape-Programmable Interfacial Solar Evaporator with Salt-Precipitation Monitoring Function. <i>ACS Nano</i> , 2021, 15, 5752-5761.	14.6	53
24	A Thin Elastic Membrane Conformed to a Soft and Rough Substrate Subjected to Stretching/Compression. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	36
25	Tuning the Rigidity of Silk Fibroin for the Transfer of Highly Stretchable Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 2001518.	14.9	34
26	Piezocatalytic Foam for Highly Efficient Degradation of Aqueous Organics. <i>Small Science</i> , 2021, 1, 2000011.	9.9	32
27	Bioinspired design of highly sensitive flexible tactile sensors for wearable healthcare monitoring. <i>Materials Today Chemistry</i> , 2022, 23, 100718.	3.5	31
28	Soft-packaged sensory glove system for human-like natural interaction and control of prosthetic hands. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	30
29	Magnetic soft continuum robots with contact forces. <i>Extreme Mechanics Letters</i> , 2022, 51, 101604.	4.1	22
30	Epidermal electrodes with enhanced breathability and high sensing performance. <i>Materials Today Physics</i> , 2020, 12, 100191.	6.0	19
31	Conformability of a Thin Elastic Membrane Laminated on a Rigid Substrate With Corrugated Surface. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015, 5, 1237-1243.	2.5	17
32	Large scale and integrated platform for digital mass culture of anchorage dependent cells. <i>Nature Communications</i> , 2019, 10, 4824.	12.8	17
33	Crack Control in Biotemplated Gold Films for Wide-Range, Highly Sensitive Strain Sensing. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901223.	3.7	17
34	Axisymmetric instability of soft elastic tubes under axial load and surface tension. <i>International Journal of Solids and Structures</i> , 2020, 191-192, 341-350.	2.7	16
35	Camel-back band-induced power factor enhancement of thermoelectric lead-tellurium from Boltzmann transport calculations. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	14
36	Suction effects in cratered surfaces. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170377.	3.4	12

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37	Coupled hydrothermal synthesis/hot pressing of PbSe/C@PbTe heterostructured composites with enhanced thermoelectric performance. <i>Materials Letters</i> , 2014, 117, 49-52.	2.6	9
38	Effects of surface tension on the suction forces generated by miniature craters. <i>Extreme Mechanics Letters</i> , 2017, 15, 130-138.	4.1	7
39	Suction effects of craters under water. <i>Soft Matter</i> , 2018, 14, 8509-8520.	2.7	7
40	Suction effects of crater arrays. <i>Extreme Mechanics Letters</i> , 2019, 30, 100496.	4.1	7
41	Mechanics of Crater-Enabled Soft Dry Adhesives: A Review. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	1.8	7
42	Graphene electronic tattoo sensors for point-of-care personal health monitoring and human-machine interfaces. , 2020, , 59-86.		5
43	Stretchable Electronics: Stretchable and Transparent Biointerface Using Cell-Sheet-Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle ( <i>Adv. Funct. Mater.</i> 19/2016). <i>Advanced Functional Materials</i> , 2016, 26, 3182-3182.	14.9	4
44	Stretchability, Conformability, and Low-Cost Manufacture of Epidermal Sensors. <i>Microsystems and Nanosystems</i> , 2016, , 31-51.	0.1	3
45	Bulging intervertebral disc: an asymptotic elasticity solution. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 1167-1173.	3.4	0
46	Interfacial Iontronic Sensing: First Decade of Interfacial Iontronic Sensing: From Droplet Sensors to Artificial Skins ( <i>Adv. Mater.</i> 7/2021). <i>Advanced Materials</i> , 2021, 33, 2170050.	21.0	0