

# Xiao Xiao

## List of Publications by Year in descending order

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45  
papers

3,084  
citations

136740

32  
h-index

223531

46  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Textiles for Wearable Point-of-Care Systems. <i>Chemical Reviews</i> , 2022, 122, 3259-3291.	23.0	316
2	Manipulating Relative Permittivity for High-Performance Wearable Triboelectric Nanogenerators. <i>Nano Letters</i> , 2020, 20, 6404-6411.	4.5	231
3	Leveraging triboelectric nanogenerators for bioengineering. <i>Matter</i> , 2021, 4, 845-887.	5.0	192
4	Bioinspired Pressure-Tolerant Asymmetric Slippery Surface for Continuous Self-Transport of Gas Bubbles in Aqueous Environment. <i>ACS Nano</i> , 2018, 12, 2048-2055.	7.3	155
5	Soft fibers with magnetoelasticity for wearable electronics. <i>Nature Communications</i> , 2021, 12, 6755.	5.8	150
6	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. <i>Science Advances</i> , 2021, 7, eabl3742.	4.7	145
7	Bioinspired Graphene Oxide Membranes with pH-Responsive Nanochannels for High-Performance Nanofiltration. <i>ACS Nano</i> , 2021, 15, 13178-13187.	7.3	128
8	Electrospinning nanofibers and nanomembranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21659-21684.	5.2	121
9	Wearable Triboelectric Nanogenerators for Therapeutics. <i>Trends in Chemistry</i> , 2021, 3, 279-290.	4.4	100
10	Simultaneous Biomechanical and Biochemical Monitoring for Self-Powered Breath Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7301-7310.	4.0	86
11	Triboelectric bending sensor based smart glove towards intuitive multi-dimensional human-machine interfaces. <i>Nano Energy</i> , 2021, 89, 106330.	8.2	83
12	Recent Advances on Dual-Band Electrochromic Materials and Devices. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	81
13	Advances in graphene oxide membranes for water treatment. <i>Nano Research</i> , 2022, 15, 6636-6654.	5.8	76
14	A Deep-Learning-Assisted On-Mask Sensor Network for Adaptive Respiratory Monitoring. <i>Advanced Materials</i> , 2022, 34, e2200252.	11.1	72
15	A Personalized Acoustic Interface for Wearable Human-Machine Interaction. <i>Advanced Functional Materials</i> , 2022, 32, 2109430.	7.8	69
16	Bioinspired Slippery Cone for Controllable Manipulation of Gas Bubbles in Low-Surface-Tension Environment. <i>ACS Nano</i> , 2019, 13, 4083-4090.	7.3	68
17	Wearable triboelectric nanogenerators for heart rate monitoring. <i>Chemical Communications</i> , 2021, 57, 5871-5879.	2.2	64
18	Triboelectric Nanogenerators for Self-Powered Wound Healing. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100975.	3.9	64

#	ARTICLE	IF	CITATIONS
19	Kirigami-Inspired Pressure Sensors for Wearable Dynamic Cardiovascular Monitoring. <i>Advanced Materials</i> , 2022, 34, .	11.1	63
20	MXene-Sponge Based High-Performance Piezoresistive Sensor for Wearable Biomonitoring and Real-Time Tactile Sensing. <i>Small Methods</i> , 2022, 6, e2101051.	4.6	61
21	Ultrafast and Selective Nanofiltration Enabled by Graphene Oxide Membranes with Unzipped Carbon Nanotube Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 1850-1860.	4.0	60
22	Advances in Triboelectric Nanogenerators for Self-Powered Regenerative Medicine. <i>Advanced Functional Materials</i> , 2021, 31, 2105169.	7.8	54
23	Machine-Learning-Aided Self-Powered Assistive Physical Therapy Devices. <i>ACS Nano</i> , 2021, 15, 18633-18646.	7.3	53
24	Air-Stable Conductive Polymer Ink for Printed Wearable Micro-Supercapacitors. <i>Small</i> , 2021, 17, e2100956.	5.2	51
25	Deep Learning Assisted Body Area Triboelectric Hydrogel Sensor Network for Infant Care. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	51
26	Machine-Learning-Assisted Recognition on Bioinspired Soft Sensor Arrays. <i>ACS Nano</i> , 2022, 16, 6734-6743.	7.3	49
27	Efficient separation of immiscible oil/water mixtures using a perforated lotus leaf. <i>Green Chemistry</i> , 2019, 21, 6579-6584.	4.6	46
28	Bioinspired Two-Dimensional Structure with Asymmetric Wettability Barriers for Unidirectional and Long-Distance Gas Bubble Delivery Underwater. <i>Nano Letters</i> , 2021, 21, 2117-2123.	4.5	43
29	Graphene Oxide Nanofiltration Membrane Based on Three-Dimensional Size-Controllable Metal-Organic Frameworks for Water Treatment. <i>ACS Applied Nano Materials</i> , 2022, 5, 5196-5207.	2.4	42
30	Recent Advances in Graphene Oxide Membranes for Nanofiltration. <i>ACS Applied Nano Materials</i> , 2022, 5, 3121-3145.	2.4	42
31	Triboelectric Nanogenerators for Self-Powered Breath Monitoring. <i>ACS Applied Energy Materials</i> , 2022, 5, 3952-3965.	2.5	39
32	All-in-one conformal epidermal patch for multimodal biosensing. <i>Matter</i> , 2021, 4, 1102-1105.	5.0	36
33	Bioinspired acoustic textiles with nanoscale vibrations for wearable biomonitoring. <i>Matter</i> , 2022, 5, 1342-1345.	5.0	29
34	Computational investigation of ultrasound induced electricity generation via a triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 91, 106656.	8.2	26
35	Advances in 4D-printed physiological monitoring sensors. <i>Exploration</i> , 2021, 1, .	5.4	25
36	A contextual framework development toward triboelectric nanogenerator commercialization. <i>Nano Energy</i> , 2022, 101, 107572.	8.2	21

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37	Thermogalvanic hydrogels for self-powered temperature monitoring in extreme environments. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13789-13796.	2.7	19
38	Bioinspired Anisotropic Slippery Cilia for Stiffness-Controllable Bubble Transport. <i>ACS Nano</i> , 2022, 16, 9348-9358.	7.3	19
39	Mn, B, N co-doped graphene quantum dots for fluorescence sensing and biological imaging. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103856.	2.3	13
40	Learning from nature for healthcare, energy, and environment. <i>Innovation(China)</i> , 2021, 2, 100135.	5.2	11
41	Flexible Prussian Blue@Au Fibers as Robust Peroxidase "Like" Nanozymes for Wearable Hydrogen Peroxide and Uric Acid Monitoring. <i>Electroanalysis</i> , 2022, 34, 1763-1771.	1.5	10
42	Polymer nanotube membranes synthesized via liquid deposition in anodic alumina. <i>Colloids and Interface Science Communications</i> , 2020, 39, 100334.	2.0	8
43	Wearable Pressure Sensors for Pulse Wave Monitoring (Adv. Mater. 21/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	5
44	MXene@Sponge Based High-Performance Piezoresistive Sensor for Wearable Biomonitoring and Real-Time Tactile Sensing (Small Methods 2/2022). <i>Small Methods</i> , 2022, 6, .	4.6	4
45	Wearable Bioelectronics: Air-Stable Conductive Polymer Ink for Printed Wearable Micro-Supercapacitors (Small 25/2021). <i>Small</i> , 2021, 17, 2170128.	5.2	2