

# Yihao Zhou

## List of Publications by Year in descending order

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34  
papers

4,113  
citations

201674

27  
h-index

361022

35  
g-index

35  
all docs

35  
docs citations

35  
times ranked

3181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sign-to-speech translation using machine-learning-assisted stretchable sensor arrays. <i>Nature Electronics</i> , 2020, 3, 571-578.	26.0	513
2	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020, 2, 896-907.	10.0	310
3	Smart textiles for personalized healthcare. <i>Nature Electronics</i> , 2022, 5, 142-156.	26.0	307
4	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. <i>ACS Nano</i> , 2020, 14, 3576-3586.	14.6	277
5	Alveolus-Inspired Active Membrane Sensors for Self-Powered Wearable Chemical Sensing and Breath Analysis. <i>ACS Nano</i> , 2020, 14, 6067-6075.	14.6	271
6	Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. <i>Matter</i> , 2020, 2, 1260-1269.	10.0	204
7	Giant magnetoelastic effect in soft systems for bioelectronics. <i>Nature Materials</i> , 2021, 20, 1670-1676.	27.5	175
8	Muscle Fibers Inspired High-Performance Piezoelectric Textiles for Wearable Physiological Monitoring. <i>Advanced Functional Materials</i> , 2021, 31, 2010962.	14.9	169
9	Ambulatory Cardiovascular Monitoring Via a Machine-Learning-Assisted Textile Triboelectric Sensor. <i>Advanced Materials</i> , 2021, 33, e2104178.	21.0	167
10	Additive engineering for high-performance room-temperature-processed perovskite absorbers with micron-size grains and microsecond-range carrier lifetimes. <i>Energy and Environmental Science</i> , 2017, 10, 2365-2371.	30.8	157
11	Promoting Energy Efficiency via a Self-Adaptive Evaporative Cooling Hydrogel. <i>Advanced Materials</i> , 2020, 32, e1907307.	21.0	151
12	Soft fibers with magnetoelasticity for wearable electronics. <i>Nature Communications</i> , 2021, 12, 6755.	12.8	150
13	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. <i>Science Advances</i> , 2021, 7, eabl3742.	10.3	145
14	Piezoelectric nanogenerators for personalized healthcare. <i>Chemical Society Reviews</i> , 2022, 51, 3380-3435.	38.1	145
15	Bioinspired Graphene Oxide Membranes with pH-Responsive Nanochannels for High-Performance Nanofiltration. <i>ACS Nano</i> , 2021, 15, 13178-13187.	14.6	128
16	Ternary Electrification Layered Architecture for High-Performance Triboelectric Nanogenerators. <i>ACS Nano</i> , 2020, 14, 9050-9058.	14.6	88
17	Simultaneous Biomechanical and Biochemical Monitoring for Self-Powered Breath Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7301-7310.	8.0	86
18	Efficient and Stable Pt/TiO <sub>2</sub> /CdS/Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Photocathode for Water Electrolysis Applications. <i>ACS Energy Letters</i> , 2018, 3, 177-183.	17.4	75

#	ARTICLE	IF	CITATIONS
19	Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon Nanotube Forests. <i>Advanced Energy Materials</i> , 2019, 9, 1900618.	19.5	74
20	A Deepâ€Learningâ€Assisted Onâ€Mask Sensor Network for Adaptive Respiratory Monitoring. <i>Advanced Materials</i> , 2022, 34, e2200252.	21.0	72
21	A Personalized Acoustic Interface for Wearable Humanâ€Machine Interaction. <i>Advanced Functional Materials</i> , 2022, 32, 2109430.	14.9	69
22	MXeneâ€Sponge Based Highâ€Performance Piezoresistive Sensor for Wearable Biomonitoring and Realâ€Time Tactile Sensing. <i>Small Methods</i> , 2022, 6, e2101051.	8.6	61
23	Giant Magnetoelastic Effect Enabled Stretchable Sensor for Self-Powered Biomonitoring. <i>ACS Nano</i> , 2022, 16, 6013-6022.	14.6	59
24	Synthesis and Characterization of an Earth-Abundant Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Chalcogenide for Photoelectrochemical Cell Application. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4554-4561.	4.6	54
25	Recent Advances in Stretchable Supercapacitors Enabled by Lowâ€Dimensional Nanomaterials. <i>Small</i> , 2018, 14, e1803976.	10.0	52
26	Solution-Processed Earth-Abundant Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Solar Absorber Using a Low-Toxicity Solvent. <i>Chemistry of Materials</i> , 2018, 30, 6116-6123.	6.7	43
27	Wearable Ultrahigh Current Power Source Based on Giant Magnetoelastic Effect in Soft Elastomer System. <i>ACS Nano</i> , 2021, 15, 20582-20589.	14.6	43
28	Low-Cost and Nature-Friendly Hierarchical Porous Carbon for Enhanced Capacitive Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 7246-7250.	5.1	22
29	Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2773-2782.	8.0	17
30	Porous Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Film as a Photocathode Using Non-Toxic Solvent and a Ball-Milling Approach. <i>ACS Applied Energy Materials</i> , 2021, 4, 81-87.	5.1	7
31	Piezoelectric Textiles: Muscle Fibers Inspired Highâ€Performance Piezoelectric Textiles for Wearable Physiological Monitoring ( <i>Adv. Funct. Mater.</i> 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170136.	14.9	6
32	A Perovskiteâ€Based Photodetector with Enhanced Light Absorption, Heat Dissipation, and Humidity Stability. <i>Advanced Photonics Research</i> , 2021, 2, 2100123.	3.6	5
33	Carbon Nanotubes: Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon Nanotube Forests ( <i>Adv. Energy Mater.</i> 22/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970082.	19.5	4
34	MXeneâ€Sponge Based Highâ€Performance Piezoresistive Sensor for Wearable Biomonitoring and Realâ€Time Tactile Sensing ( <i>Small Methods</i> 2/2022). <i>Small Methods</i> , 2022, 6, .	8.6	4