

Yi Zhang

List of Publications by Year in descending order

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27
papers

1,817
citations

430442

18
h-index

552369

26
g-index

27
all docs

27
docs citations

27
times ranked

2302
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancing Biosensors with Machine Learning. ACS Sensors, 2020, 5, 3346-3364.	4.0	307
2	Assembly of Advanced Materials into 3D Functional Structures by Methods Inspired by Origami and Kirigami: A Review. Advanced Materials Interfaces, 2018, 5, 1800284.	1.9	195
3	A fluorometric skin-interfaced microfluidic device and smartphone imaging module for <i>in situ</i> quantitative analysis of sweat chemistry. Lab on A Chip, 2018, 18, 2178-2186.	3.1	166
4	Passive sweat collection and colorimetric analysis of biomarkers relevant to kidney disorders using a soft microfluidic system. Lab on A Chip, 2019, 19, 1545-1555.	3.1	157
5	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. Science Advances, 2019, 5, eaaw5296.	4.7	127
6	Superabsorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. Small, 2018, 14, e1703334.	5.2	119
7	Battery-free, lightweight, injectable microsystem for <i>in vivo</i> wireless pharmacology and optogenetics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21427-21437.	3.3	110
8	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. Advanced Materials, 2019, 31, e1805615.	11.1	105
9	Soft, Skin-Interfaced Microfluidic Systems with Wireless, Battery-Free Electronics for Digital, Real-Time Tracking of Sweat Loss and Electrolyte Composition. Small, 2018, 14, e1802876.	5.2	88
10	Harnessing the interface mechanics of hard films and soft substrates for 3D assembly by controlled buckling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15368-15377.	3.3	54
11	Microneedle-Based Potentiometric Sensing System for Continuous Monitoring of Multiple Electrolytes in Skin Interstitial Fluids. ACS Sensors, 2021, 6, 2181-2190.	4.0	45
12	Transient Light-Emitting Diodes Constructed from Semiconductors and Transparent Conductors that Biodegrade Under Physiological Conditions. Advanced Materials, 2019, 31, e1902739.	11.1	43
13	Amplification-Free Detection of SARS-CoV-2 and Respiratory Syncytial Virus Using CRISPR Cas13a and Graphene Field-Effect Transistors. Angewandte Chemie - International Edition, 2022, 61, .	7.2	43
14	Nanofibrillar cellulose/Au@Ag nanoparticle nanocomposite as a SERS substrate for detection of paraquat and thiram in lettuce. Mikrochimica Acta, 2020, 187, 390.	2.5	42
15	Three-dimensional electronic scaffolds for monitoring and regulation of multifunctional hybrid tissues. Extreme Mechanics Letters, 2020, 35, 100634.	2.0	38
16	Multimodal sensing and therapeutic systems for wound healing and management: A review. Sensors and Actuators Reports, 2022, 4, 100075.	2.3	32
17	Excitatory VTA to DH projections provide a valence signal to memory circuits. Nature Communications, 2020, 11, 1466.	5.8	24
18	Implantable Aptamer-Graphene Microtransistors for Real-Time Monitoring of Neurochemical Release <i>in Vivo</i> . Nano Letters, 2022, 22, 3668-3677.	4.5	21

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19	Multiplexed Monitoring of Neurochemicals via Electrografting-Enabled Site-Selective Functionalization of Aptamers on Field-Effect Transistors. <i>Analytical Chemistry</i> , 2022, 94, 8605-8617.	3.2	21
20	Separation and detection of <i>E. coli</i> O157:H7 using a SERS-based microfluidic immunosensor. <i>Mikrochimica Acta</i> , 2022, 189, 111.	2.5	16
21	Optimisation using the finite element method of a filter-based microfluidic SERS sensor for detection of multiple pesticides in strawberry. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2021, 38, 646-658.	1.1	13
22	Recent advances of biosensors for hypertension and nephrology. <i>Current Opinion in Nephrology and Hypertension</i> , 2019, 28, 390-396.	1.0	10
23	Bioinspired Oil-Infused Slippery Surfaces with Water and Ion Barrier Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33464-33476.	4.0	10
24	Wireless, battery-free push-pull microsystem for membrane-free neurochemical sampling in freely moving animals. <i>Science Advances</i> , 2022, 8, eabn2277.	4.7	10
25	Shape-Programmable Three-Dimensional Microfluidic Structures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15599-15607.	4.0	10
26	Controllable Directional Liquid Transport in Open Channel. <i>Advanced Materials Interfaces</i> , 0, , 2102547.	1.9	6
27	Amplification-Free Detection of SARS-CoV-2 and Respiratory Syncytial Virus Using CRISPR Cas13a and Graphene Field-Effect Transistors. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5