

Yi Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Multimodal sensing and therapeutic systems for wound healing and management: A review. <i>Sensors and Actuators Reports</i> , 2022, 4, 100075.	2.3	32
2	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
3	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
4	Shape-Programmable Three-Dimensional Microfluidic Structures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15599-15607.	4.0	10
5	Implantable Aptamer-Graphene Microtransistors for Real-Time Monitoring of Neurochemical Release in Vivo. <i>Nano Letters</i> , 2022, 22, 3668-3677.	4.5	21
6	Amplification-Free Detection of SARS-CoV-2 and Respiratory Syncytial Virus Using CRISPR Cas13a and Graphene Field-Effect Transistors. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	43
7	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
8	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
9	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
10	Microneedle-Based Potentiometric Sensing System for Continuous Monitoring of Multiple Electrolytes in Skin Interstitial Fluids. <i>ACS Sensors</i> , 2021, 6, 2181-2190.	4.0	45
11	Bioinspired Oil-Infused Slippery Surfaces with Water and Ion Barrier Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33464-33476.	4.0	10
12	Advancing Biosensors with Machine Learning. <i>ACS Sensors</i> , 2020, 5, 3346-3364.	4.0	307
13	Nanofibrillar cellulose/Au@Ag nanoparticle nanocomposite as a SERS substrate for detection of paraquat and thiram in lettuce. <i>Mikrochimica Acta</i> , 2020, 187, 390.	2.5	42
14	Excitatory VTA to DH projections provide a valence signal to memory circuits. <i>Nature Communications</i> , 2020, 11, 1466.	5.8	24
15	Three-dimensional electronic scaffolds for monitoring and regulation of multifunctional hybrid tissues. <i>Extreme Mechanics Letters</i> , 2020, 35, 100634.	2.0	38
16	Harnessing the interface mechanics of hard films and soft substrates for 3D assembly by controlled buckling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15368-15377.	3.3	54
17	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. <i>Science Advances</i> , 2019, 5, eaaw5296.	4.7	127
18	Battery-free, lightweight, injectable microsystem for in vivo wireless pharmacology and optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21427-21437.	3.3	110

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19	Transient Light-Emitting Diodes Constructed from Semiconductors and Transparent Conductors that Biodegrade Under Physiological Conditions. <i>Advanced Materials</i> , 2019, 31, e1902739.	11.1	43
20	Passive sweat collection and colorimetric analysis of biomarkers relevant to kidney disorders using a soft microfluidic system. <i>Lab on A Chip</i> , 2019, 19, 1545-1555.	3.1	157
21	Recent advances of biosensors for hypertension and nephrology. <i>Current Opinion in Nephrology and Hypertension</i> , 2019, 28, 390-396.	1.0	10
22	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. <i>Advanced Materials</i> , 2019, 31, e1805615.	11.1	105
23	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , 2018, 14, e1703334.	5.2	119
24	Soft, Skin-Interfaced Microfluidic Systems with Wireless, Battery-Free Electronics for Digital, Real-Time Tracking of Sweat Loss and Electrolyte Composition. <i>Small</i> , 2018, 14, e1802876.	5.2	88
25	A fluorometric skin-interfaced microfluidic device and smartphone imaging module for <i>in situ</i> quantitative analysis of sweat chemistry. <i>Lab on A Chip</i> , 2018, 18, 2178-2186.	3.1	166
26	Assembly of Advanced Materials into 3D Functional Structures by Methods Inspired by Origami and Kirigami: A Review. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800284.	1.9	195
27	Controllable Directional Liquid Transport in Open Channel. <i>Advanced Materials Interfaces</i> , 0, , 2102547.	1.9	6