Xiaolin Wang

List of Publications by Year
in descending order

34	988	623734	477307
papers	citations	14 h-index	29 g-index

35	35	35	1771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A vascularized and perfused organ-on-a-chip platform for large-scale drug screening applications. Lab on A Chip, 2017, 17, 511-520.	6.0	250
2	Flexible Single-Electrode Triboelectric Nanogenerator and Body Moving Sensor Based on Porous Na₂CO₃/Polydimethylsiloxane Film. ACS Applied Materials & Interfaces, 2018, 10, 3652-3659.	8.0	103
3	Microfluidic-Based 3D Engineered Microvascular Networks and Their Applications in Vascularized Microtumor Models. Micromachines, 2018, 9, 493.	2.9	74
4	High performance bimorph piezoelectric MEMS harvester via bulk PZT thick films on thin beryllium-bronze substrate. Applied Physics Letters, 2017, 111, .	3.3	67
5	PDMS/MWCNT-based tactile sensor array with coplanar electrodes for crosstalk suppression. Microsystems and Nanoengineering, 2016, 2, 16065.	7.0	64
6	Flexible polyimide-based hybrid opto-electric neural interface with 16 channels of micro-LEDs and electrodes. Microsystems and Nanoengineering, 2018, 4, 27.	7.0	59
7	The population dynamics of bacteria in physically structured habitats and the adaptive virtue of random motility. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4047-4052.	7.1	55
8	Flexible and stretchable opto-electric neural interface for low-noise electrocorticogram recordings and neuromodulation in vivo. Biosensors and Bioelectronics, 2020, 153, 112009.	10.1	42
9	A hydrostatic pressure-driven passive micropump enhanced with siphon-based autofill function. Lab on A Chip, 2018, 18, 2167-2177.	6.0	37
10	Flexible bioelectrodes with enhanced wrinkle microstructures for reliable electrochemical modification and neuromodulation in vivo. Biosensors and Bioelectronics, 2019, 135, 181-191.	10.1	37
11	Stability and scalability of piezoelectric flags. Physics of Fluids, 2016, 28, .	4.0	23
12	A modular microfluidic system based on a multilayered configuration to generate large-scale perfusable microvascular networks. Microsystems and Nanoengineering, 2021, 7, 4.	7.0	23
13	NTC thin film temperature sensors for cryogenics region with high sensitivity and thermal stability. Applied Physics Letters, 2018, 113, .	3.3	19
14	Low-cost rapid prototyping and assembly of an open microfluidic device for a 3D vascularized organ-on-a-chip. Lab on A Chip, 2022, 22, 2682-2694.	6.0	17
15	Cobalt sulfide-reduced graphene oxide nanohybrid as high performance sodium ion battery anode. Journal of Materials Science: Materials in Electronics, 2017, 28, 13710-13715.	2.2	12
16	Optimizing snake locomotion on an inclined plane. Physical Review E, 2014, 89, 012717.	2.1	11
17	The dynamics of vortex streets in channels. Physics of Fluids, 2015, 27, .	4.0	11
18	3D Anastomosed Microvascular Network Model with Living Capillary Networks and Endothelial Cell-Lined Microfluidic Channels. Methods in Molecular Biology, 2017, 1612, 325-344.	0.9	11

#	Article	IF	Citations
19	Ultraminiature and Flexible Sensor Based on Interior Corner Flow for Direct Pressure Sensing in Biofluids. Small, 2019, 15, e1900950.	10.0	11
20	Development and characterisation of electroplating silver/silver chloride modified microelectrode arrays. Micro and Nano Letters, 2019, 14, 299-303.	1.3	11
21	A broadband E-shaped piezoelectric energy harvester based on vortex-shedding induced vibration from low velocity liquid flow. AIP Advances, 2018, 8, 125214.	1.3	10
22	Distinct modes in the evolution of interaction between polymer film and atmospheric pressure plasma jet. Plasma Processes and Polymers, 2017, 14, 1600067.	3.0	8
23	Dynamics and locomotion of flexible foils in a frictional environment. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170503.	2.1	8
24	Reusable Standardized Universal Interface Module (RSUIM) for Generic Organ-on-a-Chip Applications. Micromachines, 2019, 10, 849.	2.9	6
25	An incompressible Eulerian method for fluidâ€“structure interaction with mixed soft and rigid solids. Physics of Fluids, 2022, 34, .	4.0	5
26	Fabrication of a flexible biomimetic film with spontaneously unidirectional waterâ€spreading property. Micro and Nano Letters, 2018, 13, 321-325.	1.3	4
27	A smart microfluidic system integrated with pressure sensors and flow sensor based on electrochemical impedance methods. , 2017, , .		2
28	Development of a high throughput micro-heater array with controllable temperature for each heating unit. Microsystem Technologies, 2020, 26, 787-792.	2.0	2
29	Development and characterization of resonator- and delay lines-based sensors on AlN/sapphire substrate for high-temperature application. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 045002.	0.9	1
30	A High-Efficient Piezoelectric Harvester via Optimizing Length of Piezoelectric Layer on a Flexible Substrate. , 2018, , .		1
31	An ultrasensitive humidity sensor based on SnO<inf>2</inf>-modified MoS<inf>2</inf> nanocomposite at low-humidity range. , 2018, , .		1
32	Wrinkled Microelectrode Interface Based on Oil-Pretreated Hyperelastic Substrate. , 2019, , .		1
33	Self-Powered, High-Sensitive Human Cutaneous Activities Sensor. , 2018, , .		0
34	Novel Microfluidic Perfusion Bioreactor for Vascularized Organ-on-a-Chip. , 2019, , .		0