

Xiaolin Wang

List of Publications by Year in descending order

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34
papers

988
citations

623734

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477307

29
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35
all docs

35
docs citations

35
times ranked

1771
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An incompressible Eulerian method for fluid-structure interaction with mixed soft and rigid solids. Physics of Fluids, 2022, 34, .	4.0	5
3	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
4	Development of a high throughput micro-heater array with controllable temperature for each heating unit. Microsystem Technologies, 2020, 26, 787-792.	2.0	2
5	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
6	Ultraminiature and Flexible Sensor Based on Interior Corner Flow for Direct Pressure Sensing in Biofluids. Small, 2019, 15, e1900950.	10.0	11
7	Wrinkled Microelectrode Interface Based on Oil-Pretreated Hyperelastic Substrate. , 2019, , .		1
8	Flexible bioelectrodes with enhanced wrinkle microstructures for reliable electrochemical modification and neuromodulation in vivo. Biosensors and Bioelectronics, 2019, 135, 181-191.	10.1	37
9	Development and characterisation of electroplating silver/silver chloride modified microelectrode arrays. Micro and Nano Letters, 2019, 14, 299-303.	1.3	11
10	Novel Microfluidic Perfusion Bioreactor for Vascularized Organ-on-a-Chip. , 2019, , .		0
11	Reusable Standardized Universal Interface Module (RSUIM) for Generic Organ-on-a-Chip Applications. Micromachines, 2019, 10, 849.	2.9	6
12	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
13	Flexible Single-Electrode Triboelectric Nanogenerator and Body Moving Sensor Based on Porous Na ₂ CO ₃ /Polydimethylsiloxane Film. ACS Applied Materials & Interfaces, 2018, 10, 3652-3659.	8.0	103
14	A High-Efficient Piezoelectric Harvester via Optimizing Length of Piezoelectric Layer on a Flexible Substrate. , 2018, , .		1
15	Microfluidic-Based 3D Engineered Microvascular Networks and Their Applications in Vascularized Microtumor Models. Micromachines, 2018, 9, 493.	2.9	74
16	Self-Powered, High-Sensitive Human Cutaneous Activities Sensor. , 2018, , .		0
17	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
18	NTC thin film temperature sensors for cryogenics region with high sensitivity and thermal stability. Applied Physics Letters, 2018, 113, .	3.3	19

#	ARTICLE	IF	CITATIONS
19	Flexible polyimide-based hybrid opto-electric neural interface with 16 channels of micro-LEDs and electrodes. <i>Microsystems and Nanoengineering</i> , 2018, 4, 27.	7.0	59
20	An ultrasensitive humidity sensor based on SnO ₂ -modified MoS ₂ nanocomposite at low-humidity range. , 2018, , .		1
21	Fabrication of a flexible biomimetic film with spontaneously unidirectional waterâ€šspreading property. <i>Micro and Nano Letters</i> , 2018, 13, 321-325.	1.3	4
22	A hydrostatic pressure-driven passive micropump enhanced with siphon-based autofill function. <i>Lab on A Chip</i> , 2018, 18, 2167-2177.	6.0	37
23	A vascularized and perfused organ-on-a-chip platform for large-scale drug screening applications. <i>Lab on A Chip</i> , 2017, 17, 511-520.	6.0	250
24	A smart microfluidic system integrated with pressure sensors and flow sensor based on electrochemical impedance methods. , 2017, , .		2
25	3D Anastomosed Microvascular Network Model with Living Capillary Networks and Endothelial Cell-Lined Microfluidic Channels. <i>Methods in Molecular Biology</i> , 2017, 1612, 325-344.	0.9	11
26	High performance bimorph piezoelectric MEMS harvester via bulk PZT thick films on thin beryllium-bronze substrate. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	67
27	Cobalt sulfide-reduced graphene oxide nanohybrid as high performance sodium ion battery anode. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13710-13715.	2.2	12
28	Distinct modes in the evolution of interaction between polymer film and atmospheric pressure plasma jet. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600067.	3.0	8
29	Stability and scalability of piezoelectric flags. <i>Physics of Fluids</i> , 2016, 28, .	4.0	23
30	PDMS/MWCNT-based tactile sensor array with coplanar electrodes for crosstalk suppression. <i>Microsystems and Nanoengineering</i> , 2016, 2, 16065.	7.0	64
31	Development and characterization of resonator- and delay lines-based sensors on AlN/sapphire substrate for high-temperature application. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2016, 15, 045002.	0.9	1
32	The dynamics of vortex streets in channels. <i>Physics of Fluids</i> , 2015, 27, .	4.0	11
33	Optimizing snake locomotion on an inclined plane. <i>Physical Review E</i> , 2014, 89, 012717.	2.1	11
34	The population dynamics of bacteria in physically structured habitats and the adaptive virtue of random motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4047-4052.	7.1	55