Xiao Li

List of Publications by Year in descending order

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47 papers	1,804 citations	304743 22 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	2724 citing authors

#	Article	IF	Citations
1	The Emerging Frontiers and Applications of High-Resolution 3D Printing. Micromachines, 2017, 8, 113.	2.9	151
2	Membrane curvature underlies actin reorganization in response to nanoscale surface topography. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23143-23151.	7.1	147
3	Micro/nanoscale electrohydrodynamic printing: from 2D to 3D. Nanoscale, 2016, 8, 15376-15388.	5.6	136
4	Magnetic timing valves for fluid control in paper-based microfluidics. Lab on A Chip, 2013, 13, 2609.	6.0	131
5	A paper-based microfluidic biosensor integrating zinc oxide nanowires for electrochemical glucose detection. Microsystems and Nanoengineering, 2015, 1, .	7.0	131
6	Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach. Biosensors and Bioelectronics, 2021, 177, 112672.	10.1	100
7	A nanostructure platform for live-cell manipulation of membrane curvature. Nature Protocols, 2019, 14, 1772-1802.	12.0	78
8	Fabrication of three-dimensional microfluidic channels in a single layer of cellulose paper. Microfluidics and Nanofluidics, 2014, 16, 819-827.	2.2	77
9	Advanced Material Strategies for Next-Generation Additive Manufacturing. Materials, 2018, 11, 166.	2.9	76
10	Cells Adhering to 3D Vertical Nanostructures: Cell Membrane Reshaping without Stable Internalization. Nano Letters, 2018, 18, 6100-6105.	9.1	73
11	A Microfluidic Paperâ€Based Origami Nanobiosensor for Labelâ€Free, Ultrasensitive Immunoassays. Advanced Healthcare Materials, 2016, 5, 1326-1335.	7.6	69
12	A thread-based wearable sweat nanobiosensor. Biosensors and Bioelectronics, 2021, 188, 113270.	10.1	58
13	Paper-Based Piezoelectric Touch Pads with Hydrothermally Grown Zinc Oxide Nanowires. ACS Applied Materials & Interfaces, 2014, 6, 22004-22012.	8.0	53
14	Group III nitride nanomaterials for biosensing. Nanoscale, 2017, 9, 7320-7341.	5.6	51
15	A Paper-Based Piezoelectric Accelerometer. Micromachines, 2018, 9, 19.	2.9	50
16	A paper-based microfluidic platform with shape-memory-polymer-actuated fluid valves for automated multi-step immunoassays. Microsystems and Nanoengineering, 2019, 5, 50.	7.0	49
17	Development of a Robotic Arm Based Hydrogel Additive Manufacturing System for In-Situ Printing. Applied Sciences (Switzerland), 2017, 7, 73.	2.5	41
18	Ice-template-induced silk fibroinâ€“chitosan scaffolds with predefined microfluidic channels and fully porous structures. Acta Biomaterialia, 2012, 8, 2175-2184.	8.3	38

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19	Embedded bioprinting for designer 3D tissue constructs with complex structural organization. Acta Biomaterialia, 2022, 140, 1-22.	8.3	35
20	Nanoscale Surface Topography Reduces Focal Adhesions and Cell Stiffness by Enhancing Integrin Endocytosis. Nano Letters, 2021, 21, 8518-8526.	9.1	34
21	Dynamic Manipulation of Cell Membrane Curvature by Light-Driven Reshaping of Azopolymer. Nano Letters, 2020, 20, 577-584.	9.1	29
22	Nanocrown electrodes for parallel and robust intracellular recording of cardiomyocytes. Nature Communications, 2022, 13, 2253.	12.8	25
23	Additive Manufacturing of Biomedical Constructs with Biomimetic Structural Organizations. Materials, 2016, 9, 909.	2.9	23
24	Controllable Hydrothermal Growth of ZnO Nanowires on Cellulose Paper for Flexible Sensors and Electronics. IEEE Sensors Journal, 2015, 15, 6100-6107.	4.7	21
25	The fabrication and cell culture of three-dimensional rolled scaffolds with complex micro-architectures. Biofabrication, 2012, 4, 015004.	7.1	20
26	Membrane curvature regulates the spatial distribution of bulky glycoproteins. Nature Communications, 2022, 13, .	12.8	19
27	Leaf-templated, microwell-integrated microfluidic chips for high-throughput cell experiments. Biofabrication, 2018, 10, 025008.	7.1	18
28	Quantitative analysis and predictive engineering of self-rolling of nanomembranes under anisotropic mismatch strain. Nanotechnology, 2017, 28, 485302.	2.6	13
29	Coaxial Electrohydrodynamic Bioprinting of Pre-vascularized Cell-laden Constructs for Tissue Engineering. International Journal of Bioprinting, 2021, 7, 362.	3.4	13
30	COMPUTATIONAL FLUID DYNAMICS FOR TISSUE ENGINEERING APPLICATIONS. Journal of Mechanics in Medicine and Biology, 2011, 11, 307-323.	0.7	8
31	Biomaterial scaffolds with biomimetic fluidic channels for hepatocyte culture. Journal of Bionic Engineering, 2013, 10, 57-64.	5.0	8
32	NUMERICAL SIMULATION OF HEMODYNAMICS IN PORTAL VEIN WITH THROMBOSIS BY COMPUTATIONAL FLUID DYNAMICS. Journal of Mechanics in Medicine and Biology, 2014, 14, 1440006.	0.7	6
33	Microfluidicsâ€Based Biosensors: A Microfluidic Paperâ€Based Origami Nanobiosensor for Labelâ€Free, Ultrasensitive Immunoassays (Adv. Healthcare Mater. 11/2016). Advanced Healthcare Materials, 2016, 5, 1378-1378.	7.6	6
34	Molecular dynamics simulation of thermal welding morphology of Ag/Au/Cu nanoparticles distributed on Si substrates. Ferroelectrics, 2020, 564, 19-27.	0.6	3
35	Deciphering Fluid Transport Within Leafâ€Inspired Capillary Networks Based on a 3D Computational Model. Small, 2022, 18, e2108102.	10.0	3
36	A paper-based piezoelectric touch pad integrating zinc oxide nanowires. , 2014, , .		2

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37	In situ three-dimensional laser machining system integrating in situ measurement, reconstruction, parameterization, and texture mapping. International Journal of Advanced Manufacturing Technology, 2020, 111, 673-684.	3.0	2
38	Vertical nanostructures for probing live cells. , 2021, , 43-70.		2
39	Advanced biofabrication strategies for biomimetic composite scaffolds to regenerate ligamentâ€bone interface. Biosurface and Biotribology, 2021, 7, 187-205.	1.5	2
40	Hydrothermal growth of ZnO nanowires on paper for flexible electronics. , 2014, , .		1
41	An electrochemical microfluidic paper-based glucose sensor integrating zinc oxide nanowires. , 2015, , .		1
42	Thermal Field Simulation of Ag Nanoparticles Induced by Femtosecond Laser. Integrated Ferroelectrics, 2020, 208, 128-137.	0.7	1
43	Corrections to â€œControllable Hydrothermal Growth of ZnO Nanowires on Cellulose Paper for Flexible Sensors and Electronicsâ€•[Nov 15 6100-6107]. IEEE Sensors Journal, 2016, 16, 6142-6142.	4.7	0
44	A Systematic Study of Cell Mechanics and Function Modulated by Nanotopography. Biophysical Journal, 2019, 116, 375a.	0.5	0
45	Electric field simulation of Ag nanoparticles induced by Femtosecond laser in welding process. Ferroelectrics, 2020, 563, 1-11.	0.6	0
46	Molecular dynamics simulation of thermal welding process of Ag nanoparticles. Ferroelectrics, 2020, 564, 102-112.	0.6	0
47	Bioprinting of 3D Functional Tissue Constructs. International Journal of Bioprinting, 2021, 7, 395.	3.4	0