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	Embedded bioprinting for designer 3D tissue constructs with complex structural organization. Acta Biomaterialia, 2022, 140, 1-22.	8.3	35
2	Deciphering Fluid Transport Within Leafâ€Inspired Capillary Networks Based on a 3D Computational Model. Small, 2022, 18, e2108102.	10.0	3
3	Nanocrown electrodes for parallel and robust intracellular recording of cardiomyocytes. Nature Communications, 2022, 13, 2253.	12.8	25
4	Membrane curvature regulates the spatial distribution of bulky glycoproteins. Nature Communications, 2022, 13, .	12.8	19
5	Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach. Biosensors and Bioelectronics, 2021, 177, 112672.	10.1	100
6	Vertical nanostructures for probing live cells. , 2021, , 43-70.		2
7	Coaxial Electrohydrodynamic Bioprinting of Pre-vascularized Cell-laden Constructs for Tissue Engineering. International Journal of Bioprinting, 2021, 7, 362.	3.4	13
8	Nanoscale Surface Topography Reduces Focal Adhesions and Cell Stiffness by Enhancing Integrin Endocytosis. Nano Letters, 2021, 21, 8518-8526.	9.1	34
9	Advanced biofabrication strategies for biomimetic composite scaffolds to regenerate ligamentâ€bone interface. Biosurface and Biotribology, 2021, 7, 187-205.	1.5	2
10	A thread-based wearable sweat nanobiosensor. Biosensors and Bioelectronics, 2021, 188, 113270.	10.1	58
11	Bioprinting of 3D Functional Tissue Constructs. International Journal of Bioprinting, 2021, 7, 395.	3.4	0
12	Dynamic Manipulation of Cell Membrane Curvature by Light-Driven Reshaping of Azopolymer. Nano Letters, 2020, 20, 577-584.	9.1	29
13	Electric field simulation of Ag nanoparticles induced by Femtosecond laser in welding process. Ferroelectrics, 2020, 563, 1-11.	0.6	0
14	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
15	Molecular dynamics simulation of thermal welding morphology of Ag/Au/Cu nanoparticles distributed on Si substrates. Ferroelectrics, 2020, 564, 19-27.	0.6	3
16	Molecular dynamics simulation of thermal welding process of Ag nanoparticles. Ferroelectrics, 2020, 564, 102-112.	0.6	0
17	Thermal Field Simulation of Ag Nanoparticles Induced by Femtosecond Laser. Integrated Ferroelectrics, 2020, 208, 128-137.	0.7	1
18	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

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19	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
20	A nanostructure platform for live-cell manipulation of membrane curvature. Nature Protocols, 2019, 14, 1772-1802.	12.0	78
21	A Systematic Study of Cell Mechanics and Function Modulated by Nanotopography. Biophysical Journal, 2019, 116, 375a.	0.5	0
22	Leaf-templated, microwell-integrated microfluidic chips for high-throughput cell experiments. Biofabrication, 2018, 10, 025008.	7.1	18
23	Advanced Material Strategies for Next-Generation Additive Manufacturing. Materials, 2018, 11, 166.	2.9	76
24	A Paper-Based Piezoelectric Accelerometer. Micromachines, 2018, 9, 19.	2.9	50
25	Cells Adhering to 3D Vertical Nanostructures: Cell Membrane Reshaping without Stable Internalization. Nano Letters, 2018, 18, 6100-6105.	9.1	73
26	Group III nitride nanomaterials for biosensing. Nanoscale, 2017, 9, 7320-7341.	5.6	51
27	Quantitative analysis and predictive engineering of self-rolling of nanomembranes under anisotropic mismatch strain. Nanotechnology, 2017, 28, 485302.	2.6	13
28	The Emerging Frontiers and Applications of High-Resolution 3D Printing. Micromachines, 2017, 8, 113.	2.9	151
29	Development of a Robotic Arm Based Hydrogel Additive Manufacturing System for In-Situ Printing. Applied Sciences (Switzerland), 2017, 7, 73.	2.5	41
30	Additive Manufacturing of Biomedical Constructs with Biomimetic Structural Organizations. Materials, 2016, 9, 909.	2.9	23
31	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
32	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
33	Micro/nanoscale electrohydrodynamic printing: from 2D to 3D. Nanoscale, 2016, 8, 15376-15388.	5.6	136
34	A Microfluidic Paperâ€Based Origami Nanobiosensor for Labelâ€Free, Ultrasensitive Immunoassays. Advanced Healthcare Materials, 2016, 5, 1326-1335.	7.6	69
35	A paper-based microfluidic biosensor integrating zinc oxide nanowires for electrochemical glucose detection. Microsystems and Nanoengineering, 2015, 1, .	7.0	131
36	An electrochemical microfluidic paper-based glucose sensor integrating zinc oxide nanowires. , 2015, , .		1

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37	Controllable Hydrothermal Growth of ZnO Nanowires on Cellulose Paper for Flexible Sensors and Electronics. IEEE Sensors Journal, 2015, 15, 6100-6107.	4.7	21
38	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
39	Paper-Based Piezoelectric Touch Pads with Hydrothermally Grown Zinc Oxide Nanowires. ACS Applied Materials & Interfaces, 2014, 6, 22004-22012.	8.0	53
40	Hydrothermal growth of ZnO nanowires on paper for flexible electronics. , 2014, , .		1
41	Fabrication of three-dimensional microfluidic channels in a single layer of cellulose paper. Microfluidics and Nanofluidics, 2014, 16, 819-827.	2.2	77
42	A paper-based piezoelectric touch pad integrating zinc oxide nanowires. , 2014, , .		2
43	Magnetic timing valves for fluid control in paper-based microfluidics. Lab on A Chip, 2013, 13, 2609.	6.0	131
44	Biomaterial scaffolds with biomimetic fluidic channels for hepatocyte culture. Journal of Bionic Engineering, 2013, 10, 57-64.	5.0	8
45	The fabrication and cell culture of three-dimensional rolled scaffolds with complex micro-architectures. Biofabrication, 2012, 4, 015004.	7.1	20
46	Ice-template-induced silk fibroinâ€“chitosan scaffolds with predefined microfluidic channels and fully porous structures. Acta Biomaterialia, 2012, 8, 2175-2184.	8.3	38
47	COMPUTATIONAL FLUID DYNAMICS FOR TISSUE ENGINEERING APPLICATIONS. Journal of Mechanics in Medicine and Biology, 2011, 11, 307-323.	0.7	8