

Xiaolu Zhu

List of Publications by Year in descending order

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papers

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all docs

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docs citations

28
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. <i>Biomaterials</i> , 2012, 33, 9019-9026.	5.7	39
2	Frequency-dependent behaviors of individual microscopic particles in an optically induced dielectrophoresis device. <i>Biomicrofluidics</i> , 2010, 4, 013202.	1.2	30
3	Directing three-dimensional multicellular morphogenesis by self-organization of vascular mesenchymal cells in hyaluronic acid hydrogels. <i>Journal of Biological Engineering</i> , 2017, 11, 12.	2.0	16
4	Dynamics simulation of positioning and assembling multi-microparticles utilizing optoelectronic tweezers. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 529-544.	1.0	15
5	Study on a 3D Hydrogel-Based Culture Model for Characterizing Growth of Fibroblasts under Viral Infection and Drug Treatment. <i>SLAS Discovery</i> , 2017, 22, 626-634.	1.4	14
6	Three dimensional tubular structure self-assembled by vascular mesenchymal cells at stiffness interfaces of hydrogels. <i>Biomedicine and Pharmacotherapy</i> , 2016, 83, 1203-1211.	2.5	13
7	Characterization and Analysis of Collective Cellular Behaviors in 3D Dextran Hydrogels with Homogenous and Clustered RGD Compositions. <i>Materials</i> , 2019, 12, 3391.	1.3	13
8	Spatial micro-variation of 3D hydrogel stiffness regulates the biomechanical properties of hMSCs. <i>Biofabrication</i> , 2021, 13, 035051.	3.7	10
9	Experimental study on filtering, transporting, concentrating and focusing of microparticles based on optically induced dielectrophoresis. <i>Science China Technological Sciences</i> , 2010, 53, 2388-2396.	2.0	9
10	Turing Instability-Driven Biofabrication of Branching Tissue Structures: A Dynamic Simulation and Analysis Based on the Reaction-Diffusion Mechanism. <i>Micromachines</i> , 2018, 9, 109.	1.4	8
11	Quantitatively Designed Cross-Linker-Clustered Maleimide-Dextran Hydrogels for Rationally Regulating the Behaviors of Cells in a 3D Matrix. <i>ACS Applied Bio Materials</i> , 2020, 3, 5759-5774.	2.3	8
12	Electrode-rail dielectrophoretic assembly effect: formation of single curvilinear particle-chains on spiral microelectrodes. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 981-988.	1.0	7
13	Cell Migration Regulated by Spatially Controlled Stiffness inside Composition-Tunable Three-Dimensional Dextran Hydrogels. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100494.	1.9	6
14	Manipulation of Self-Assembled Microparticle Chains by Electroosmotic Flow Assisted Electrorotation in an Optoelectronic Device. <i>Micromachines</i> , 2015, 6, 1387-1405.	1.4	5
15	A review of regulated self-organizing approaches for tissue regeneration. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 167, 63-78.	1.4	5
16	Numerical Analysis of the Mechanism of a Novel Microchip Based on Dielectrophoresis for Measuring Dielectric Parameters of Cells. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2009, 45, 197.	0.7	5
17	Directed transport and location-designated rotation of nanowires using ac electric fields. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 237-246.	1.0	3
18	Design of a micro manipulation device for cell microinjection. <i>Microsystem Technologies</i> , 2017, 23, 2823-2832.	1.2	3

#	ARTICLE	IF	CITATIONS
19	Numerical Study on the Flow and Heat Transfer Coupled in a Rectangular Mini-Channel by Finite Element Method for Industrial Micro-Cooling Technologies. <i>Fluids</i> , 2020, 5, 151.	0.8	3
20	In-silico constructing three-dimensional hollow structure via self-organization of vascular mesenchymal cells. , 2016, , .		2
21	Tissue morphology controlled by micropatterning and self-assembly of vascular mesenchymal cells. , 2013, , .		1
22	Simulation for tubular and spherical structure formation via self- organization of vascular mesenchymal cells in three dimensions. , 2016, , .		1
23	4D Biofabrication of Branching Multicellular Structures: A Morphogenesis Simulation Based on Turing's Reaction-Diffusion Dynamics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 280, 012018.	0.3	1
24	Theoretically Evaluating the Electric Property of Electric Double Layer at Electrode/Electrolyte Interfaces with Heterogeneous Dielectric Properties. , 2017, , .		0
25	Hollow spheroid formation by cells at the mechanical interface of hyaluronic acid hydrogels in three dimensions. , 2017, , .		0
26	Theoretically assessing electric double layer with heterogeneous dielectric properties by considering the steric effect of ions*. , 2017, , .		0
27	Microscopic Particle Manipulation via Optoelectronic Devices. , 0, , .		0
28	Graphene-Flakes Based Microdevices for Detecting Microlitre Liquid Containing Heavy Metal Ions with Low Concentrations. , 2019, , .		0