Haijiao Liu

List of Publications by Year
in descending order

25 papers	1,051 citations	516710 16 h-index	839539 18 g-index
26 all docs	26 docs citations	26 times ranked	1872 citing authors

#	Article	IF	Citations
1	A microdevice platform for characterizing the effect of mechanical strain magnitudes on the maturation of iPSC-Cardiomyocytes. Biosensors and Bioelectronics, 2021, 175, 112875.	10.1	26
2	Combinatorial screen of dynamic mechanical stimuli for predictive control of MSC mechano-responsiveness. Science Advances, 2021, 7, .	10.3	13
3	Three-dimensional niche stiffness synergizes with Wnt7a to modulate the extent of satellite cell symmetric self-renewal divisions. Molecular Biology of the Cell, 2020, 31, 1703-1713.	2.1	26
4	Microdevice arrays with strain sensors for 3D mechanical stimulation and monitoring of engineered tissues. Biomaterials, 2018, 172, 30-40.	11.4	34
5	Mechanical stability of the cell nucleus: roles played by the cytoskeleton in nuclear deformation and strain recovery. Journal of Cell Science, 2018, 131, .	2.0	64
6	Microdevice Platform for Continuous Measurement of Contractility, Beating Rate, and Beating Rhythm of Human-Induced Pluripotent Stem Cell-Cardiomyocytes inside a Controlled Incubator Environment. ACS Applied Materials & Interfaces, 2018, 10, 21173-21183.	8.0	35
7	Cell and Tissue Scale Forces Coregulate Fgfr2 -Dependent Tetrads and Rosettes in the Mouse Embryo. Biophysical Journal, 2017, 112, 2209-2218.	0.5	15
8	Automated Robotic Measurement of 3-D Cell Morphologies. IEEE Robotics and Automation Letters, 2017, 2, 499-505.	5.1	22
9	Microdevice arrays for identifying 3D mechanical stimulation conditions in tissue engineering. , 2017, , .		0
10	Robotic fluidic jet for automated cellular and intracellular mechanical characterization. , 2016, , .		4
11	A microfabricated platform with on-chip strain sensing and hydrogel arrays for 3D mechanical stimulation of cells. , 2016, , .		2
12	A microfabricated platform with hydrogel arrays for 3D mechanical stimulation of cells. Acta Biomaterialia, 2016, 34, 113-124.	8.3	34
13	Voyage inside the cell: Microsystems and nanoengineering for intracellular measurement and manipulation. Microsystems and Nanoengineering, 2015, 1, .	7.0	66
14	Automated micro-aspiration of mouse embryo limb bud tissue. , 2015, , .		2
15	Automated robotic vitrification of embryos. , 2015, , .		2
16	Automated Vitrification of Embryos: A Robotics Approach. IEEE Robotics and Automation Magazine, 2015, 22, 33-40.	2.0	36
17	Anisotropic stress orients remodelling of mammalian limb bud ectoderm. Nature Cell Biology, 2015, 17, 569-579.	10.3	102
18	Polyacrylamide gel substrates that simulate the mechanical stiffness of normal and malignant neuronal tissues increase protoporphyin IX synthesis in glioma cells. Journal of Biomedical Optics, 2015, 20, 098002.	2.6	20

#	Article	IF	Citations
19	Mechanical characterization of cancer cell nuclei in situ. , 2014, , .		0
20	Microfabricated perfusable cardiac biowire: a platform that mimics native cardiac bundle. Lab on A Chip, 2014, 14, 869-882.	6.0	121
21	<i>In Situ</i> Mechanical Characterization of the Cell Nucleus by Atomic Force Microscopy. ACS Nano, 2014, 8, 3821-3828.	14.6	176
22	Biophysical Characterization of Bladder Cancer Cells with Different Metastatic Potential. Cell Biochemistry and Biophysics, 2014, 68, 241-246.	1.8	47
23	Determination of local and global elastic moduli of valve interstitial cells cultured on soft substrates. Journal of Biomechanics, 2013, 46, 1967-1971.	2.1	50
24	Perfusable branching microvessel bed for vascularization of engineered tissues. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3414-23.	7.1	152
25	Characterization of the Elasticity of Valve Interstitial Cells on Soft Substrates Using Atomic Force Microscopy. , 2012, , .		1