

Zhen

List of Publications by Year in descending order

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23
papers

811
citations

623574

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642610

23
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23
all docs

23
docs citations

23
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Profiling the responsiveness of focal adhesions of human cardiomyocytes to extracellular dynamic nano-topography. <i>Bioactive Materials</i> , 2022, 10, 367-377.	8.6	4
2	Micro-engineered architected metamaterials for cell and tissue engineering. <i>Materials Today Advances</i> , 2022, 13, 100206.	2.5	15
3	Remodeling of Architected Mesenchymal Microtissues Generated on Mechanical Metamaterials. <i>3D Printing and Additive Manufacturing</i> , 2022, 9, 483-489.	1.4	3
4	Integrating nonlinear analysis and machine learning for human induced pluripotent stem cell-based drug cardiotoxicity testing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022, 16, 732-743.	1.3	4
5	Stimuli-responsive biomaterials for cardiac tissue engineering and dynamic mechanobiology. <i>APL Bioengineering</i> , 2021, 5, 011506.	3.3	20
6	Engineering spatial-organized cardiac organoids for developmental toxicity testing. <i>Stem Cell Reports</i> , 2021, 16, 1228-1244.	2.3	47
7	Biomaterial-guided stem cell organoid engineering for modeling development and diseases. <i>Acta Biomaterialia</i> , 2021, 132, 23-36.	4.1	27
8	Architected mechanical designs in tissue engineering. <i>MRS Communications</i> , 2020, 10, 379-390.	0.8	2
9	Maladaptive Contractility of 3D Human Cardiac Microtissues to Mechanical Nonuniformity. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901373.	3.9	12
10	Progressive Myofibril Reorganization of Human Cardiomyocytes on a Dynamic Nanotopographic Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21450-21462.	4.0	20
11	Serum-Free Manufacturing of Mesenchymal Stem Cell Tissue Rings Using Human-Induced Pluripotent Stem Cells. <i>Stem Cells International</i> , 2019, 2019, 1-11.	1.2	4
12	A combined hiPSC-derived endothelial cell and in vitro microfluidic platform for assessing biomaterial-based angiogenesis. <i>Biomaterials</i> , 2019, 194, 73-83.	5.7	41
13	Quantitatively characterizing drug-induced arrhythmic contractile motions of human stem cell-derived cardiomyocytes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1958-1970.	1.7	5
14	Generation of spatial-patterned early-developing cardiac organoids using human pluripotent stem cells. <i>Nature Protocols</i> , 2018, 13, 723-737.	5.5	121
15	Contractile deficits in engineered cardiac microtissues as a result of MYBPC3 deficiency and mechanical overload. <i>Nature Biomedical Engineering</i> , 2018, 2, 955-967.	11.6	82
16	Laser-assisted biofabrication in tissue engineering and regenerative medicine. <i>Journal of Materials Research</i> , 2017, 32, 128-142.	1.2	20
17	In vitro cardiac tissue models: Current status and future prospects. <i>Advanced Drug Delivery Reviews</i> , 2016, 96, 203-213.	6.6	150
18	Role of the Basement Membrane in Regulation of Cardiac Electrical Properties. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1148-1157.	1.3	36

#	ARTICLE	IF	CITATIONS
19	Three-dimensional filamentous human diseased cardiac tissue model. <i>Biomaterials</i> , 2014, 35, 1367-1377.	5.7	102
20	Myosin filament assembly onto myofibrils in live neonatal cardiomyocytes observed by TPEF-SHG microscopy. <i>Cardiovascular Research</i> , 2013, 97, 262-270.	1.8	30
21	Mesenchymal Stem Cell-Cardiomyocyte Interactions under Defined Contact Modes on Laser-Patterned Biochips. <i>PLoS ONE</i> , 2013, 8, e56554.	1.1	36
22	Myofibrillogenesis in live neonatal cardiomyocytes observed with hybrid two-photon excitation fluorescence-second harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 126012.	1.4	13
23	Laser-guidance based detection of cells with single-gene modification. <i>Applied Physics Letters</i> , 2008, 92, 213902.	1.5	17