

Jason W Miklas

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,633
citations

623574

14
h-index

713332

21
g-index

25
all docs

25
docs citations

25
times ranked

2881
citing authors

#	ARTICLE	IF	CITATIONS
1	Biowire: a platform for maturation of human pluripotent stem cell-derived cardiomyocytes. <i>Nature Methods</i> , 2013, 10, 781-787.	9.0	784
2	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. <i>Cell Stem Cell</i> , 2018, 23, 586-598.e8.	5.2	215
3	Microfabricated perfusable cardiac biowire: a platform that mimics native cardiac bundle. <i>Lab on A Chip</i> , 2014, 14, 869-882.	3.1	121
4	Metabolic Control over mTOR-Dependent Diapause-like State. <i>Developmental Cell</i> , 2020, 52, 236-250.e7.	3.1	79
5	Tfpa/HADHA is required for fatty acid beta-oxidation and cardiolipin re-modeling in human cardiomyocytes. <i>Nature Communications</i> , 2019, 10, 4671.	5.8	77
6	Metabolic remodeling in early development and cardiomyocyte maturation. <i>Seminars in Cell and Developmental Biology</i> , 2016, 52, 84-92.	2.3	62
7	Bioreactor for modulation of cardiac microtissue phenotype by combined static stretch and electrical stimulation. <i>Biofabrication</i> , 2014, 6, 024113.	3.7	53
8	Hydrogel Substrate Stiffness and Topography Interact to Induce Contact Guidance in Cardiac Fibroblasts. <i>Macromolecular Bioscience</i> , 2012, 12, 1342-1353.	2.1	42
9	Extracellular Matrix Control of Collagen Mineralization In Vitro. <i>Advanced Functional Materials</i> , 2013, 23, 4906-4912.	7.8	42
10	QHREDGS Enhances Tube Formation, Metabolism and Survival of Endothelial Cells in Collagen-Chitosan Hydrogels. <i>PLoS ONE</i> , 2013, 8, e72956.	1.1	36
11	Metabolism as an early predictor of DPSCs aging. <i>Scientific Reports</i> , 2019, 9, 2195.	1.6	26
12	Effect of ultrasound on cyprids and juvenile barnacles. <i>Biofouling</i> , 2011, 27, 185-192.	0.8	25
13	Human Stem Cell-Derived Cardiac Model of Chronic Drug Exposure. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1911-1921.	2.6	20
14	Enrichment of live unlabelled cardiomyocytes from heterogeneous cell populations using manipulation of cell settling velocity by magnetic field. <i>Biomicrofluidics</i> , 2013, 7, 014110.	1.2	19
15	Amino acid primed mTOR activity is essential for heart regeneration. <i>IScience</i> , 2022, 25, 103574.	1.9	15
16	Maturation of stem cell-derived human heart tissue by mimicking fetal heart rate. <i>Future Cardiology</i> , 2013, 9, 751-754.	0.5	6
17	High-Throughput Contractility Assay for Human Stem Cell-Derived Cardiomyocytes. <i>Circulation Research</i> , 2019, 124, 1146-1148.	2.0	4
18	Support cells in the brain promote longevity. <i>Science</i> , 2020, 367, 365-366.	6.0	2

#	ARTICLE	IF	CITATIONS
19	Engineering Cardiac Tissues from Pluripotent Stem Cells for Drug Screening and Studies of Cell Maturation. Israel Journal of Chemistry, 2013, 53, 680-694.	1.0	1
20	Design and Fabrication of Biological Wires. Methods in Molecular Biology, 2014, 1181, 157-165.	0.4	1
21	Using Mitochondrial Trifunctional Protein Deficiency to Understand Maternal Health. Journal of Cellular Signaling, 2020, 1, 97-101.	0.5	0
22	Long life depends on open communication. Nature Cell Biology, 2022, 24, 808-810.	4.6	0