

Joseph Chen

List of Publications by Year in descending order

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26
papers

751
citations

623734

14
h-index

752698

20
g-index

28
all docs

28
docs citations

28
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	The stimulation of the cardiac differentiation of mesenchymal stem cells in tissue constructs that mimic myocardium structure and biomechanics. <i>Biomaterials</i> , 2011, 32, 5568-5580.	11.4	119
2	Dissecting and rebuilding the glioblastoma microenvironment with engineered materials. <i>Nature Reviews Materials</i> , 2019, 4, 651-668.	48.7	103
3	Cadherin-11 Regulates Cell-Cell Tension Necessary for Calcific Nodule Formation by Valvular Myofibroblasts. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 114-120.	2.4	87
4	Calcific nodule morphogenesis by heart valve interstitial cells is strain dependent. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 5-17.	2.8	85
5	Design and Testing of a Pulsatile Conditioning System for Dynamic Endothelialization of Polyphenol-Stabilized Tissue Engineered Heart Valves. <i>Cardiovascular Engineering and Technology</i> , 2010, 1, 138-153.	1.6	60
6	Assembly and Testing of Stem Cell-Seeded Layered Collagen Constructs for Heart Valve Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2011, 17, 25-36.	3.1	57
7	Notch1 Mutation Leads to Valvular Calcification Through Enhanced Myofibroblast Mechanotransduction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1597-1605.	2.4	49
8	Form Follows Function: Advances in Trilayered Structure Replication for Aortic Heart Valve Tissue Engineering. <i>Journal of Healthcare Engineering</i> , 2012, 3, 179-202.	1.9	35
9	The Correlation of 3D DT-MRI Fiber Disruption with Structural and Mechanical Degeneration in Porcine Myocardium. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3084-3095.	2.5	28
10	Evaluation of Low-Contrast Detectability of Iterative Reconstruction across Multiple Institutions, CT Scanner Manufacturers, and Radiation Exposure Levels. <i>Radiology</i> , 2015, 277, 124-133.	7.3	24
11	Suppression of LIM Kinase 1 and LIM Kinase 2 Limits Glioblastoma Invasion. <i>Cancer Research</i> , 2020, 80, 69-78.	0.9	17
12	Murine bladder wall biomechanics following partial bladder obstruction. <i>Journal of Biomechanics</i> , 2013, 46, 2752-2755.	2.1	16
13	Biophysical Analysis of Dystrophic and Osteogenic Models of Valvular Calcification. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 020903.	1.3	16
14	Biophysical regulation of cancer stem/initiating cells: Implications for disease mechanisms and translation. <i>Current Opinion in Biomedical Engineering</i> , 2017, 1, 87-95.	3.4	15
15	Transcriptomic analysis reveals that BMP4 sensitizes glioblastoma tumor-initiating cells to mechanical cues. <i>Matrix Biology</i> , 2020, 85-86, 112-127.	3.6	11
16	Quantitative Analysis of Tissue Damage Evolution in Porcine Liver With Interrupted Mechanical Testing Under Tension, Compression, and Shear. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	10
17	Mechanical Response of Porcine Liver Tissue under High Strain Rate Compression. <i>Bioengineering</i> , 2019, 6, 49.	3.5	9
18	EXPERIMENTAL OBSERVATION OF HIGH STRAIN RATE RESPONSES OF PORCINE BRAIN, LIVER, AND TENDON. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650032.	0.7	6

#	ARTICLE	IF	CITATIONS
19	A Novel Trilayered Polymer Scaffold Mimicking Native Aortic Valve Leaflet. , 2010, , .		2
20	Bioengineered Models to Study Microenvironmental Regulation of Glioblastoma Metabolism. Journal of Neuropathology and Experimental Neurology, 2021, 80, 1012-1023.	1.7	1
21	Chronic arsenic increases cell migration in BEAS-2B cells by increasing cell speed, cell persistence, and cell protrusion length. Experimental Cell Research, 2021, 408, 112852.	2.6	1
22	Traumatic Injury: Mechanical Response of Porcine Liver Tissue Under High Strain Rate Compression Testing. , 2009, , .		0
23	Cadherin-11 Regulates Calcific Nodule Formation by Aortic Valve Interstitial Cells. , 2013, , .		0
24	LIM Kinase 1 and 2 Regulate Motility and Invasion in Glioblastoma. Biophysical Journal, 2018, 114, 652a-653a.	0.5	0
25	Calcific Nodule Morphogenesis by Aortic Valve Interstitial Cells: Synergism of Applied Strain and TGF- β 1. , 2011, , .		0
26	5-HT _{2B} Antagonism Inhibits Strain- and Cytokine-Dependent Formation of Calcific Nodules by Aortic Valve Interstitial Cells. , 2012, , .		0