Hwan-Seok Jang

List of Publications by Year
in descending order

20 papers	426 citations	1163117 8 h-index	940533 16 g-index
20 all docs	20 docs citations	20 times ranked	788 citing authors

#	Article	IF	Citations
1	Cellular Contraction and Polarization Drive Collective Cellular Motion. Biophysical Journal, 2016, 110, 2729-2738.	0.5	135
2	Regeneration of chronic myocardial infarction by injectable hydrogels containing stem cell homing factor SDF-1 and angiogenic peptide Ac-SDKP. Biomaterials, 2014, 35, 2436-2445.	11.4	107
3	Cellular behavior in micropatterned hydrogels by bioprinting system depended on the cell types and cellular interaction. Journal of Bioscience and Bioengineering, 2013, 116, 224-230.	2.2	65
4	Directional migration of mesenchymal stem cells under an SDF-1Î± gradient on a microfluidic device. PLoS ONE, 2017, 12, e0184595.	2.5	32
5	Homogenizing cellular tension by hepatocyte growth factor in expanding epithelial monolayer. Scientific Reports, 2017, 7, 45844.	3.3	20
6	Combination of three angiogenic growth factors has synergistic effects on sprouting of endothelial cell/mesenchymal stem cellâ€based spheroids in a 3D matrix. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1535-1543.	3.4	15
7	Cell position within human pluripotent stem cell colonies determines apical specialization via an actin cytoskeleton-based mechanism. Stem Cell Reports, 2022, 17, 68-81.	4.8	13
8	Traction microscopy with integrated microfluidics: responses of the multi-cellular island to gradients of HGF. Lab on A Chip, 2019, 19, 1579-1588.	6.0	11
9	Development of Magnetic Torque Stimulation (MTS) Utilizing Rotating Uniform Magnetic Field for Mechanical Activation of Cardiac Cells. Nanomaterials, 2020, 10, 1684.	4.1	6
10	Expression of E-Cadherin in Epithelial Cancer Cells Increases Cell Motility and Directionality through the Localization of ZO-1 during Collective Cell Migration. Bioengineering, 2021, 8, 65.	3.5	6
11	Quantification of focal adhesion dynamics of cell movement based on cell-induced collagen matrix deformation using second-harmonic generation microscopy. Journal of Biomedical Optics, 2018, 23, 1.	2.6	5
12	Yes-Associated Protein Is Required for ZO-1-Mediated Tight-Junction Integrity and Cell Migration in E-Cadherin-Restored AGS Gastric Cancer Cells. Biomedicines, 2021, 9, 1264.	3.2	4
13	Development of a 3-D Physical Dynamics Monitoring System Using OCM with DVC for Quantification of Sprouting Endothelial Cells Interacting with a Collagen Matrix. Materials, 2020, 13, 2693.	2.9	2
14	Study on the Expansion Dynamics of MDCK Epithelium by Interstitial Flow Using a Traction Force-Measurable Microfluidic Chip. Materials, 2021, 14, 935.	2.9	2
15	Sufficient conditions for an (n, 1) mother code and its puncturing pattern to generate a given convolutional code. , 2015, , .		1
16	An efficient algorithm for the reconstruction of punctured convolutional codes. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	1
17	Traction Microscopy Integrated with Microfluidics for Chemotactic Collective Migration. Journal of Visualized Experiments, 2019, , .	0.3	1
18	Continuum-based modeling of collective cell migration. Journal of Mechanical Science and Technology, 2021, 35, 4271-4277.	1.5	0

#	Article	IF	Citations
19	PS2-9 Integration of microfluidic chips with cellular traction measuring systems for studying differential collective cell migration(PS2: Poster Short Presentation II,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 251.	0.0	0
20	GS1-19 Characterization of kinematics and forces within a scattering monolayer(GS1: Cell and Tissue) Tj ETQq0 0 0 rgBT /Overlock 10 Tf and Technology in Biomechanics, 2015, 2015.8, 132.	0.0	0