

Sungmin Nam

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

2,442
citations

516710

16
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

2742
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced tendon healing by a tough hydrogel with an adhesive side and high drug-loading capacity. <i>Nature Biomedical Engineering</i> , 2022, 6, 1167-1179.	22.5	92
2	Enhanced substrate stress relaxation promotes filopodia-mediated cell migration. <i>Nature Materials</i> , 2021, 20, 1290-1299.	27.5	111
3	The nature of cell division forces in epithelial monolayers. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	15
4	Polymeric Tissue Adhesives. <i>Chemical Reviews</i> , 2021, 121, 11336-11384.	47.7	306
5	Cellular Pushing Forces during Mitosis Drive Mitotic Elongation in Collagen Gels. <i>Advanced Science</i> , 2021, 8, 2000403.	11.2	8
6	Skeletal muscle regeneration with robotic actuation-mediated clearance of neutrophils. <i>Science Translational Medicine</i> , 2021, 13, eabe8868.	12.4	42
7	Matrix stiffness induces a tumorigenic phenotype in mammary epithelium through changes in chromatin accessibility. <i>Nature Biomedical Engineering</i> , 2019, 3, 1009-1019.	22.5	135
8	The evolution of spindles and their mechanical implications for cancer metastasis. <i>Cell Cycle</i> , 2019, 18, 1671-1675.	2.6	4
9	Cell cycle progression in confining microenvironments is regulated by a growth-responsive TRPV4-PI3K/Akt-p27 ^{<sup>Kip1</sup>} signaling axis. <i>Science Advances</i> , 2019, 5, eaaw6171.	10.3	107
10	YAP-independent mechanotransduction drives breast cancer progression. <i>Nature Communications</i> , 2019, 10, 1848.	12.8	127
11	Varying PEG density to control stress relaxation in alginate-PEG hydrogels for 3D cell culture studies. <i>Biomaterials</i> , 2019, 200, 15-24.	11.4	172
12	Identification of cell context-dependent YAP-associated proteins reveals β 1 and β 4 integrin mediate YAP translocation independently of cell spreading. <i>Scientific Reports</i> , 2019, 9, 17188.	3.3	11
13	Mitotic cells generate protrusive extracellular forces to divide in three-dimensional microenvironments. <i>Nature Physics</i> , 2018, 14, 621-628.	16.7	79
14	Mechanisms of Plastic Deformation in Collagen Networks Induced by Cellular Forces. <i>Biophysical Journal</i> , 2018, 114, 450-461.	0.5	108
15	Stress relaxing hyaluronic acid-collagen hydrogels promote cell spreading, fiber remodeling, and focal adhesion formation in 3D cell culture. <i>Biomaterials</i> , 2018, 154, 213-222.	11.4	368
16	Matrix mechanical plasticity regulates cancer cell migration through confining microenvironments. <i>Nature Communications</i> , 2018, 9, 4144.	12.8	263
17	Strain-enhanced stress relaxation impacts nonlinear elasticity in collagen gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5492-5497.	7.1	217
18	Viscoplasticity Enables Mechanical Remodeling of Matrix by Cells. <i>Biophysical Journal</i> , 2016, 111, 2296-2308.	0.5	144

#	ARTICLE	IF	CITATIONS
19	Experimental Verification of Overlimiting Current by Surface Conduction and Electro-Osmotic Flow in Microchannels. <i>Physical Review Letters</i> , 2015, 114, 114501.	7.8	112
20	Dynamic analysis during internal transition of a compliant multi-body climbing robot with magnetic adhesion. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 5175-5187.	1.5	21