

Matthew S Hall

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

597
citations

1039406

9
h-index

1199166

12
g-index

12
all docs

12
docs citations

12
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibrous nonlinear elasticity enables positive mechanical feedback between cells and ECMs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14043-14048.	3.3	267
2	Effects of Gel Thickness on Microscopic Indentation Measurements of Gel Modulus. Biophysical Journal, 2011, 101, 643-650.	0.2	108
3	Toward single cell traction microscopy within 3D collagen matrices. Experimental Cell Research, 2013, 319, 2396-2408.	1.2	78
4	Mapping Three-Dimensional Stress and Strain Fields within a Soft Hydrogel Using a Fluorescence Microscope. Biophysical Journal, 2012, 102, 2241-2250.	0.2	40
5	Metastatic Conditioning of Myeloid Cells at a Subcutaneous Synthetic Niche Reflects Disease Progression and Predicts Therapeutic Outcomes. Cancer Research, 2020, 80, 602-612.	0.4	28
6	Glycation of collagen matrices promotes breast tumor cell invasion. Integrative Biology (United Kingdom), 2019, 11, 1950-1959.	0.6	19
7	An adaptive algorithm for tracking 3D bead displacements: application in biological experiments. Measurement Science and Technology, 2014, 25, 055701.	1.4	15
8	Physical confinement induces malignant transformation in mammary epithelial cells. Biomaterials, 2019, 217, 119307.	5.7	13
9	Dynamic microRNA activity identifies therapeutic targets in trastuzumab-resistant HER2 ⁺ breast cancer. Biotechnology and Bioengineering, 2018, 115, 2613-2623.	1.7	10
10	Epidermal growth factor promotes a mesenchymal over an amoeboid motility of MDA-MB-231 cells embedded within a 3D collagen matrix. European Physical Journal Plus, 2016, 131, 1.	1.2	8
11	Towards systems tissue engineering: Elucidating the dynamics, spatial coordination, and individual cells driving emergent behaviors. Biomaterials, 2020, 255, 120189.	5.7	8
12	Design of Large-Scale Reporter Construct Arrays for Dynamic, Live Cell Systems Biology. ACS Synthetic Biology, 2018, 7, 2063-2073.	1.9	3