

Joe Swift

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

5,351
citations

147566

31
h-index

189595

50
g-index

86
all docs

86
docs citations

86
times ranked

7143
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. <i>Science</i> , 2013, 341, 1240104.	6.0	1,595
2	Nuclear lamin stiffness is a barrier to 3D migration, but softness can limit survival. <i>Journal of Cell Biology</i> , 2014, 204, 669-682.	2.3	512
3	Matrix Elasticity Regulates Lamin-A,C Phosphorylation and Turnover with Feedback to Actomyosin. <i>Current Biology</i> , 2014, 24, 1909-1917.	1.8	320
4	Crawling from soft to stiff matrix polarizes the cytoskeleton and phosphoregulates myosin-II heavy chain. <i>Journal of Cell Biology</i> , 2012, 199, 669-683.	2.3	249
5	Heart-Specific Stiffening in Early Embryos Parallels Matrix and Myosin Expression to Optimize Beating. <i>Current Biology</i> , 2013, 23, 2434-2439.	1.8	176
6	The nuclear lamina is mechano-responsive to ECM elasticity in mature tissue. <i>Journal of Cell Science</i> , 2014, 127, 3005-15.	1.2	170
7	Lamins regulate cell trafficking and lineage maturation of adult human hematopoietic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18892-18897.	3.3	165
8	Circadian control of the secretory pathway maintains collagen homeostasis. <i>Nature Cell Biology</i> , 2020, 22, 74-86.	4.6	130
9	Contractile Forces Sustain and Polarize Hematopoiesis from Stem and Progenitor Cells. <i>Cell Stem Cell</i> , 2014, 14, 81-93.	5.2	114
10	Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. <i>Developmental Cell</i> , 2019, 51, 460-475.e10.	3.1	112
11	Fractal heterogeneity in minimal matrix models of scars modulates stiff-niche stem-cell responses via nuclear exit of a mechanorepressor. <i>Nature Materials</i> , 2015, 14, 951-960.	13.3	108
12	Osmotic Challenge Drives Rapid and Reversible Chromatin Condensation in Chondrocytes. <i>Biophysical Journal</i> , 2013, 104, 759-769.	0.2	105
13	Stem cell mechanobiology: diverse lessons from bone marrow. <i>Trends in Cell Biology</i> , 2015, 25, 523-532.	3.6	103
14	Mechanically activated Piezo1 channels of cardiac fibroblasts stimulate p38 mitogen-activated protein kinase activity and interleukin-6 secretion. <i>Journal of Biological Chemistry</i> , 2019, 294, 17395-17408.	1.6	99
15	Nuclear Lamins in Cancer. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 258-267.	1.0	95
16	Coordinated increase of nuclear tension and lamin-A with matrix stiffness outcompetes lamin-B receptor that favors soft tissue phenotypes. <i>Molecular Biology of the Cell</i> , 2017, 28, 3333-3348.	0.9	94
17	Photoresponsive Hydrogels with Photoswitchable Mechanical Properties Allow Time-Resolved Analysis of Cellular Responses to Matrix Stiffening. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7765-7776.	4.0	93
18	Directing Noble Metal Ion Chemistry within a Designed Ferritin Protein. <i>Biochemistry</i> , 2008, 47, 12729-12739.	1.2	84

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19	Myosin-II inhibition and soft 2D matrix maximize multinucleation and cellular projections typical of platelet-producing megakaryocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11458-11463.	3.3	74
20	Photoinitiated Destruction of Composite Porphyrin-Protein Polymersomes. <i>Journal of the American Chemical Society</i> , 2009, 131, 3872-3874.	6.6	69
21	A novel scavenging tool for cancer biomarker discovery based on the blood-circulating nanoparticle protein corona. <i>Biomaterials</i> , 2019, 188, 118-129.	5.7	62
22	Structure and activity of apoferritin-stabilized gold nanoparticles. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1719-1729.	1.5	61
23	Efficient Self-Assembly of <i>Archaeoglobus fulgidus</i> Ferritin around Metallic Cores. <i>Langmuir</i> , 2009, 25, 5219-5225.	1.6	60
24	Cross-linked matrix rigidity and soluble retinoids synergize in nuclear lamina regulation of stem cell differentiation. <i>Molecular Biology of the Cell</i> , 2017, 28, 2010-2022.	0.9	59
25	Mechanobiology of bone marrow stem cells: From myosin-II forces to compliance of matrix and nucleus in cell forms and fates. <i>Differentiation</i> , 2013, 86, 77-86.	1.0	58
26	Filomicelles in nanomedicine – from flexible, fragmentable, and ligand-targetable drug carrier designs to combination therapy for brain tumors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5177.	2.9	58
27	Nuclear decoupling is part of a rapid protein-level cellular response to high-intensity mechanical loading. <i>Nature Communications</i> , 2019, 10, 4149.	5.8	58
28	Design of Functional Ferritin-Like Proteins with Hydrophobic Cavities. <i>Journal of the American Chemical Society</i> , 2006, 128, 6611-6619.	6.6	55
29	Registration of the extracellular matrix components constituting the fibroblastic focus in idiopathic pulmonary fibrosis. <i>JCI Insight</i> , 2019, 4, .	2.3	54
30	Enhancing the Efficacy of Drug-loaded Nanocarriers against Brain Tumors by Targeted Radiation Therapy. <i>Oncotarget</i> , 2013, 4, 64-79.	0.8	51
31	MicroRNA-dependent regulation of biomechanical genes establishes tissue stiffness homeostasis. <i>Nature Cell Biology</i> , 2019, 21, 348-358.	4.6	44
32	Laser capture microdissection coupled mass spectrometry (LCM-MS) for spatially resolved analysis of formalin-fixed and stained human lung tissues. <i>Clinical Proteomics</i> , 2020, 17, 24.	1.1	37
33	An immortalised mesenchymal stem cell line maintains mechano-responsive behaviour and can be used as a reporter of substrate stiffness. <i>Scientific Reports</i> , 2018, 8, 8981.	1.6	31
34	Low temperature hydrogenation properties of platinum group metal treated, nickel metal hydride electrode alloy. <i>Journal of Alloys and Compounds</i> , 2002, 330-332, 806-809.	2.8	20
35	–Marker of Self-CD47 on lentiviral vectors decreases macrophage-mediated clearance and increases delivery to SIRPA-expressing lung carcinoma tumors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2016, 3, 16080.	1.8	18
36	Physical Plasticity of the Nucleus and its Manipulation. <i>Methods in Cell Biology</i> , 2010, 98, 207-220.	0.5	17

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37	The consequences of ageing, progeroid syndromes and cellular senescence on mechanotransduction and the nucleus. <i>Experimental Cell Research</i> , 2019, 378, 98-103.	1.2	17
38	Circadian time series proteomics reveals daily dynamics in cartilage physiology. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 739-749.	0.6	17
39	Label-free mass spectrometry exploits dozens of detected peptides to quantify lamins in wildtype and knockdown cells. <i>Nucleus</i> , 2013, 4, 450-459.	0.6	16
40	Therapeutic Manipulation of Ageing: Repurposing Old Dogs and Discovering New Tricks. <i>EBioMedicine</i> , 2016, 14, 24-31.	2.7	15
41	Roles of Cross-Membrane Transport and Signaling in the Maintenance of Cellular Homeostasis. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 234-246.	1.0	10
42	BayesENproteomics: Bayesian Elastic Nets for Quantification of Peptidofoms in Complex Samples. <i>Journal of Proteome Research</i> , 2020, 19, 2167-2184.	1.8	9
43	Peptide location fingerprinting reveals modification-associated biomarker candidates of ageing in human tissue proteomes. <i>Aging Cell</i> , 2021, 20, e13355.	3.0	9
44	Photoresponsive Hydrogels with Photoswitchable Stiffness: Emerging Platforms to Study Temporal Aspects of Mesenchymal Stem Cell Responses to Extracellular Stiffness Regulation. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1144, 53-69.	0.8	6
45	BioID-based proteomic analysis of the Bid interactome identifies novel proteins involved in cell-cycle-dependent apoptotic priming. <i>Cell Death and Disease</i> , 2020, 11, 872.	2.7	6
46	The Nuclear Lamina: From Mechanosensing in Differentiation to Cancer Cell Migration. , 2016, , 175-195.		3
47	Nuclear lamin stiffness is a barrier to 3D-migration, but softness can limit survival. , 2014, , .		2
48	Interior decoration: Adapting multiwell plates for high throughput mechanobiology. <i>Biotechnology Journal</i> , 2015, 10, 1513-1514.	1.8	2
49	Differentiation of Hematopoietic Stem Cell Modulated by Actomyosin Forces. <i>Biophysical Journal</i> , 2011, 100, 442a-443a.	0.2	1
50	Lamin-A/C is a Nuclear Rheostat that Couples Microenvironment Rigidity to Cell Lineage. <i>Biophysical Journal</i> , 2012, 102, 48a.	0.2	1
51	Cysteine-Shotgun Mass Spectrometry (CS-MS) for Probing Nuclear Lamin Conformation during Mechanical Stress. <i>Biophysical Journal</i> , 2013, 104, 19a.	0.2	1
52	Lamin-A is Mechanosensitive to Matrix Stiffness and Couples to the Retinoic Acid Pathway in Differentiation. <i>Biophysical Journal</i> , 2014, 106, 8a.	0.2	1
53	How deeply cells feel?. , 2014, , .		1
54	Subcellular Organization: Change of Phase in Partitioning the Cellular Milieu. <i>Current Biology</i> , 2012, 22, R188-R190.	1.8	0

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55	Mapping Protein Structure Changes with Cysteine Labeling Kinetics Measured by Mass Spectrometry. Biophysical Journal, 2013, 104, 168a.	0.2	0
56	How Deeply Cells Feel: Nuclear Phenotypes Defined by Cellular Tactile Sensing. Biophysical Journal, 2013, 104, 151a.	0.2	0
57	Hierarchical Determination of Nuclear Deformability by Lamin Isoforms during Adult Hematopoiesis: Implications in Blood Cell Trafficking. Biophysical Journal, 2013, 104, 150a-151a.	0.2	0
58	Lamin-A Levels Limit 3D-Migration but Protect against Migration-Induced Apoptosis. Biophysical Journal, 2013, 104, 151a.	0.2	0
59	Crosslinked Collagen Films Stiffen the Nucleus of Marrow Stromal Cells and Promote Osteogenesis. Biophysical Journal, 2013, 104, 374a.	0.2	0
60	Lamins Regulate Cell Trafficking and Lineage Maturation of Hematopoietic Cells. Biophysical Journal, 2014, 106, 571a.	0.2	0
61	Cross-Linked Matrix Rigidity and Soluble Factors Induce Differentiation via Distinct but Overlapping Pathways. Biophysical Journal, 2015, 108, 560a-561a.	0.2	0
62	Matrix and Soluble Factor Pathways to Lineage Specification. Biophysical Journal, 2016, 110, 95a.	0.2	0
63	Myosin-II Plays Central Roles In Cell Life and Death Decisions During Adult Hematopoiesis.. Blood, 2010, 116, 1595-1595.	0.6	0
64	Hierarchical Determination of Nuclear Deformability by Lamin Isoforms During Adult Hematopoiesis: Implications in Blood Cell Trafficking. Blood, 2012, 120, 1200-1200.	0.6	0