

John T Connelly

List of Publications by Year in descending order

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44
papers

3,739
citations

236925

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254184

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docs citations

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times ranked

6620
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular-matrix tethering regulates stem-cell fate. <i>Nature Materials</i> , 2012, 11, 642-649.	27.5	1,346
2	Actin and serum response factor transduce physical cues from the microenvironment to regulate epidermal stem cell fate decisions. <i>Nature Cell Biology</i> , 2010, 12, 711-718.	10.3	414
3	Deconstruction of a Metastatic Tumor Microenvironment Reveals a Common Matrix Response in Human Cancers. <i>Cancer Discovery</i> , 2018, 8, 304-319.	9.4	255
4	Inhibition of in vitro chondrogenesis in RGD-modified three-dimensional alginate gels. <i>Biomaterials</i> , 2007, 28, 1071-1083.	11.4	197
5	Dynamic Compression Regulates the Expression and Synthesis of Chondrocyte-Specific Matrix Molecules in Bone Marrow Stromal Cells. <i>Stem Cells</i> , 2007, 25, 655-663.	3.2	164
6	Exploiting the superior protein resistance of polymer brushes to control single cell adhesion and polarisation at the micron scale. <i>Biomaterials</i> , 2010, 31, 5030-5041.	11.4	99
7	Interactions between integrin ligand density and cytoskeletal integrity regulate BMSC chondrogenesis. <i>Journal of Cellular Physiology</i> , 2008, 217, 145-154.	4.1	91
8	Type VI Collagen Regulates Dermal Matrix Assembly and Fibroblast Motility. <i>Journal of Investigative Dermatology</i> , 2016, 136, 74-83.	0.7	84
9	Single-cell gene expression profiling reveals functional heterogeneity of undifferentiated human epidermal cells. <i>Development (Cambridge)</i> , 2013, 140, 1433-1444.	2.5	82
10	Clonal Growth of Dermal Papilla Cells in Hydrogels Reveals Intrinsic Differences between Sox2-Positive and -Negative Cells In Vitro and In Vivo. <i>Journal of Investigative Dermatology</i> , 2012, 132, 1084-1093.	0.7	66
11	Adipogenic Differentiation of hMSCs is Mediated by Recruitment of IGF-1r Onto the Primary Cilium Associated With Cilia Elongation. <i>Stem Cells</i> , 2015, 33, 1952-1961.	3.2	58
12	Characterization of proteoglycan production and processing by chondrocytes and BMSCs in tissue engineered constructs. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 1092-1100.	1.3	57
13	Nuclear actin modulates cell motility via transcriptional regulation of adhesive and cytoskeletal genes. <i>Scientific Reports</i> , 2016, 6, 33893.	3.3	55
14	Shape-Induced Terminal Differentiation of Human Epidermal Stem Cells Requires p38 and Is Regulated by Histone Acetylation. <i>PLoS ONE</i> , 2011, 6, e27259.	2.5	52
15	Tensile Loading Modulates Bone Marrow Stromal Cell Differentiation and the Development of Engineered Fibrocartilage Constructs. <i>Tissue Engineering - Part A</i> , 2010, 16, 1913-1923.	3.1	51
16	The keratin network of intermediate filaments regulates keratinocyte rigidity sensing and nuclear mechanotransduction. <i>Science Advances</i> , 2021, 7, .	10.3	50
17	Fibronectin- and collagen-mimetic ligands regulate bone marrow stromal cell chondrogenesis in three-dimensional hydrogels. , 2011, 22, 168-177.		48
18	Directing cell migration using micropatterned and dynamically adhesive polymer brushes. <i>Acta Biomaterialia</i> , 2014, 10, 2415-2422.	8.3	46

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19	Integrin-mediated adhesion and mechano-sensing in cutaneous wound healing. <i>Cell and Tissue Research</i> , 2015, 360, 571-582.	2.9	45
20	The cytolinker plectin regulates nuclear mechanotransduction in keratinocytes. <i>Journal of Cell Science</i> , 2015, 128, 4475-86.	2.0	37
21	Tissue stiffening promotes keratinocyte proliferation via activation of epidermal growth factor signaling. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	36
22	Highly Stable RNA Capture by Dense Cationic Polymer Brushes for the Design of Cytocompatible, Serum-Stable siRNA Delivery Vectors. <i>Biomacromolecules</i> , 2018, 19, 606-615.	5.4	36
23	Biophysical signals controlling cell fate decisions: How do stem cells really feel?. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 2233-2237.	2.8	33
24	The influence of cyclic tension amplitude on chondrocyte matrix synthesis: experimental and finite element analyses. <i>Biorheology</i> , 2004, 41, 377-87.	0.4	31
25	Subpopulations of dermal skin fibroblasts secrete distinct extracellular matrix: implications for using skin substitutes in the clinic. <i>British Journal of Dermatology</i> , 2018, 179, 381-393.	1.5	30
26	Epidermal grafting for wound healing: a review on the harvesting systems, the ultrastructure of the graft and the mechanism of wound healing. <i>International Wound Journal</i> , 2017, 14, 16-23.	2.9	28
27	3D nanomechanical evaluations of dermal structures in skin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 57, 14-23.	3.1	27
28	Differential integrin expression regulates cell sensing of the matrix nanoscale geometry. <i>Acta Biomaterialia</i> , 2017, 50, 280-292.	8.3	24
29	Evidence for the Desmosomal Cadherin Desmoglein-3 in Regulating YAP and Phospho-YAP in Keratinocyte Responses to Mechanical Forces. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6221.	4.1	21
30	Minor collagens of the skin with not so minor functions. <i>Journal of Anatomy</i> , 2019, 235, 418-429.	1.5	20
31	Nucleocytoplasmic shuttling: a common theme in mechanotransduction. <i>Biochemical Society Transactions</i> , 2014, 42, 645-649.	3.4	19
32	An interfacial self-assembling bioink for the manufacturing of capillary-like structures with tuneable and anisotropic permeability. <i>Biofabrication</i> , 2021, 13, 035027.	7.1	16
33	Contractile myosin rings and cofilin-mediated actin disassembly orchestrate ECM nanotopography sensing. <i>Biomaterials</i> , 2020, 232, 119683.	11.4	15
34	Fabrication of Human Skin Equivalents Using Decellularized Extracellular Matrix. <i>Current Protocols</i> , 2022, 2, e393.	2.9	9
35	Multi-Scale Analysis of the Composition, Structure, and Function of Decellularized Extracellular Matrix for Human Skin and Wound Healing Models. <i>Biomolecules</i> , 2022, 12, 837.	4.0	9
36	Regulation of collective cell polarity and migration using dynamically adhesive micropatterned substrates. <i>Acta Biomaterialia</i> , 2021, 126, 291-300.	8.3	8

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37	Extracellular Adhesive Cues Physically Define Nucleolar Structure and Function. <i>Advanced Science</i> , 2022, 9, e2105545.	11.2	8
38	Design of an Integrated Microvascularized Human Skin-on-a-Chip Tissue Equivalent Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	8
39	Towards More Predictive, Physiological and Animal-free <i>In Vitro</i> Models: Advances in Cell and Tissue Culture 2020 Conference Proceedings. <i>ATLA Alternatives To Laboratory Animals</i> , 2021, 49, 93-110.	1.0	6
40	Research Techniques Made Simple: Analysis of Skin Cell and Tissue Mechanics Using Atomic Force Microscopy. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1867-1871.e1.	0.7	5
41	Terminal Differentiation of Human Epidermal Stem Cells on Micro-patterned Substrates. <i>Methods in Molecular Biology</i> , 2012, 916, 15-22.	0.9	2
42	High-Content Analysis of Cell Migration Dynamics within a Micropatterned Screening Platform. <i>Advanced Biology</i> , 2019, 3, 1900011.	3.0	2
43	Biophysical regulation of epidermal fate and function. <i>Advances in Stem Cells and Their Niches</i> , 2019, 3, 1-30.	0.1	1
44	Investigating the Fibrillar Ultrastructure and Mechanics in Keloid Scars Using In Situ Synchrotron X-ray Nanomechanical Imaging. <i>Materials</i> , 2022, 15, 1836.	2.9	1