

Holly A Leddy

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

4,527
citations

236925

25
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

5389
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface protein characterization of human adipose tissue-derived stromal cells. <i>Journal of Cellular Physiology</i> , 2001, 189, 54-63.	4.1	965
2	Chondrogenic differentiation of adipose-derived adult stem cells in agarose, alginate, and gelatin scaffolds. <i>Biomaterials</i> , 2004, 25, 3211-3222.	11.4	728
3	TRPV4-mediated mechanotransduction regulates the metabolic response of chondrocytes to dynamic loading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1316-1321.	7.1	364
4	Synergy between Piezo1 and Piezo2 channels confers high-strain mechanosensitivity to articular cartilage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5114-22.	7.1	321
5	Functional characterization of TRPV4 as an osmotically sensitive ion channel in porcine articular chondrocytes. <i>Arthritis and Rheumatism</i> , 2009, 60, 3028-3037.	6.7	265
6	The Mechanobiology of Articular Cartilage: Bearing the Burden of Osteoarthritis. <i>Current Rheumatology Reports</i> , 2014, 16, 451.	4.7	226
7	Site-Specific Molecular Diffusion in Articular Cartilage Measured using Fluorescence Recovery after Photobleaching. <i>Annals of Biomedical Engineering</i> , 2003, 31, 753-760.	2.5	150
8	Zonal changes in the three-dimensional morphology of the chondron under compression: The relationship among cellular, pericellular, and extracellular deformation in articular cartilage. <i>Journal of Biomechanics</i> , 2007, 40, 2596-2603.	2.1	150
9	Molecular diffusion in tissue-engineered cartilage constructs: Effects of scaffold material, time, and culture conditions. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70B, 397-406.	3.1	130
10	Type VI Collagen Regulates Pericellular Matrix Properties, Chondrocyte Swelling, and Mechanotransduction in Mouse Articular Cartilage. <i>Arthritis and Rheumatology</i> , 2015, 67, 1286-1294.	5.6	125
11	Synovial fluid concentrations and relative potency of interleukin-1 alpha and beta in cartilage and meniscus degradation. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1039-1045.	2.3	115
12	Diurnal variations in articular cartilage thickness and strain in the human knee. <i>Journal of Biomechanics</i> , 2013, 46, 541-547.	2.1	110
13	Inflammatory signaling sensitizes Piezo1 mechanotransduction in articular chondrocytes as a pathogenic feed-forward mechanism in osteoarthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	99
14	Transient receptor potential vanilloid 4. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 404-409.	3.8	94
15	Diffusional Anisotropy in Collagenous Tissues: Fluorescence Imaging of Continuous Point Photobleaching. <i>Biophysical Journal</i> , 2006, 91, 311-316.	0.5	83
16	TRPV4 as a therapeutic target for joint diseases. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 437-450.	3.0	78
17	Adjacent tissues (cartilage, bone) affect the functional integration of engineered calf cartilage in vitro. <i>Osteoarthritis and Cartilage</i> , 2005, 13, 129-138.	1.3	72
18	High Body Mass Index Is Associated With Increased Diurnal Strains in the Articular Cartilage of the Knee. <i>Arthritis and Rheumatism</i> , 2013, 65, 2615-2622.	6.7	62

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19	TRPV4-mediated calcium signaling in mesenchymal stem cells regulates aligned collagen matrix formation and vinculin tension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1992-1997.	7.1	60
20	Altered Trabecular Bone Structure and Delayed Cartilage Degeneration in the Knees of Collagen VI Null Mice. <i>PLoS ONE</i> , 2012, 7, e33397.	2.5	52
21	Composition and transport properties of human ankle and knee cartilage. <i>Journal of Orthopaedic Research</i> , 2006, 24, 211-219.	2.3	45
22	Osmotic stress alters chromatin condensation and nucleocytoplasmic transport. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 230-235.	2.1	45
23	Site-Specific Effects of Compression on Macromolecular Diffusion in Articular Cartilage. <i>Biophysical Journal</i> , 2008, 95, 4890-4895.	0.5	41
24	Follistatin in chondrocytes: the link between TRPV4 channelopathies and skeletal malformations. <i>FASEB Journal</i> , 2014, 28, 2525-2537.	0.5	38
25	Sutural loosening and skeletal flexibility during growth: determination of drop-like shapes in sea urchins. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 215-220.	2.6	32
26	Microscale Diffusion Properties of the Cartilage Pericellular Matrix Measured Using 3D Scanning Microphotolysis. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 061002.	1.3	22
27	Unraveling the mechanism by which TRPV4 mutations cause skeletal dysplasias. <i>Rare Diseases (Austin, Tx)</i> 10, 784314, 2018.	1.8	21
28	Effects of Myocardial Infarction on the Distribution and Transport of Nutrients and Oxygen in Porcine Myocardium. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 101005.	1.3	12
29	Transient Receptor Potential Vanilloid 4 as a Regulator of Induced Pluripotent Stem Cell Chondrogenesis. <i>Stem Cells</i> , 2021, 39, 1447-1456.	3.2	12
30	Obesity alters the collagen organization and mechanical properties of murine cartilage. <i>Scientific Reports</i> , 2021, 11, 1626.	3.3	9