

Christopher Price

List of Publications by Year in descending order

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31
papers

1,148
citations

516710

16
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1588
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted Activation of G-Protein Coupled Receptor-Mediated Ca ²⁺ Signaling Drives Enhanced Cartilage-Like Matrix Formation. <i>Tissue Engineering - Part A</i> , 2022, 28, 405-419.	3.1	2
2	Comparative tribology – Measurable biphasic tissue properties have predictable impacts on cartilage rehydration and lubricity. <i>Acta Biomaterialia</i> , 2022, 138, 375-389.	8.3	7
3	Retention of peptide-based vesicles in murine knee joints after intra-articular injection. <i>Journal of Drug Delivery Science and Technology</i> , 2022, , 103532.	3.0	2
4	Comparative Tribology: Articulation-induced Rehydration of Cartilage Across Species. <i>Biotribology</i> , 2021, 25, 100159.	1.9	8
5	Targeted Gq-GPCR activation drives ER-dependent calcium oscillations in chondrocytes. <i>Cell Calcium</i> , 2021, 94, 102363.	2.4	7
6	Articular Cartilage Friction, Strain, and Viability Under Physiological to Pathological Benchtop Sliding Conditions. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 349-363.	2.1	6
7	Lubricant Effects on Articular Cartilage Sliding Biomechanics Under Physiological Fluid Load Support. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	7
8	Effects of mechanical injury on the tribological rehydration and lubrication of articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 101, 103422.	3.1	12
9	Detrimental effects of long sedentary bouts on the biomechanical response of cartilage to sliding. <i>Connective Tissue Research</i> , 2020, 61, 375-388.	2.3	7
10	DREADD _{Ca} -based synthetic control of chondrocyte calcium signaling in vitro. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1518-1529.	2.3	4
11	Mapping the spatiotemporal evolution of solute transport in articular cartilage explants reveals how cartilage recovers fluid within the contact area during sliding. <i>Journal of Biomechanics</i> , 2018, 71, 271-276.	2.1	25
12	Quantification of solute diffusivity in osteoarthritic human femoral cartilage using correlation spectroscopy. <i>Journal of Orthopaedic Research</i> , 2018, 36, 3256-3267.	2.3	6
13	Direct Quantification of Solute Diffusivity in Agarose and Articular Cartilage Using Correlation Spectroscopy. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2461-2474.	2.5	13
14	Sliding enhances fluid and solute transport into buried articular cartilage contacts. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 2100-2107.	1.3	34
15	Early, focal changes in cartilage cellularity and structure following surgically induced meniscal destabilization in the mouse. <i>Journal of Orthopaedic Research</i> , 2017, 35, 537-547.	2.3	26
16	Seeing through Musculoskeletal Tissues: Improving In Situ Imaging of Bone and the Lacunar Canalicular System through Optical Clearing. <i>PLoS ONE</i> , 2016, 11, e0150268.	2.5	43
17	The dependences of osteocyte network on bone compartment, age, and disease. <i>Bone Research</i> , 2015, 3, .	11.4	84
18	Inhibition of T-Type Voltage Sensitive Calcium Channel Reduces Load-Induced OA in Mice and Suppresses the Catabolic Effect of Bone Mechanical Stress on Chondrocytes. <i>PLoS ONE</i> , 2015, 10, e0127290.	2.5	24

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19	Bone's responses to mechanical loading are impaired in type 1 diabetes. <i>Bone</i> , 2015, 81, 152-160.	2.9	53
20	Perlecan-Containing Pericellular Matrix Regulates Solute Transport and Mechanosensing Within the Osteocyte Lacunar-Canalicular System. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 878-891.	2.8	82
21	Imaging and quantifying solute transport across periosteum: Implications for muscle-bone crosstalk. <i>Bone</i> , 2014, 66, 82-89.	2.9	24
22	Quantifying load-induced solute transport and solute-matrix interaction within the osteocyte lacunar-canalicular system. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1075-1086.	2.8	47
23	Elevated cross-talk between subchondral bone and cartilage in osteoarthritic joints. <i>Bone</i> , 2012, 51, 212-217.	2.9	136
24	Real-time measurement of solute transport within the lacunar-canalicular system of mechanically loaded bone: Direct evidence for load-induced fluid flow. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 277-285.	2.8	225
25	An <i>in situ</i> fluorescence-based optical extensometry system for imaging mechanically loaded bone. <i>Journal of Orthopaedic Research</i> , 2010, 28, 805-811.	2.3	15
26	Phenotypic integration of skeletal traits during growth buffers genetic variants affecting the slenderness of femora in inbred mouse strains. <i>Mammalian Genome</i> , 2009, 20, 21-33.	2.2	40
27	Effects of diminished protein synthesis on bone anabolic response to load in RPL29-deficient mice. <i>FASEB Journal</i> , 2009, 23, 496.3.	0.5	0
28	Genetic randomization reveals functional relationships among morphologic and tissue-quality traits that contribute to bone strength and fragility. <i>Mammalian Genome</i> , 2007, 18, 492-507.	2.2	71
29	Genetic Variation in Bone Growth Patterns Defines Adult Mouse Bone Fragility. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1983-1991.	2.8	94
30	Long-Term Disuse Osteoporosis Seems Less Sensitive to Bisphosphonate Treatment Than Other Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 117-124.	2.8	7
31	Combination of Electroporation and DNA/Dendrimer Complexes Enhances Gene Transfer into Murine Cardiac Transplants. <i>American Journal of Transplantation</i> , 2001, 1, 334-338.	4.7	37