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List of Publications by Year in descending order

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Μικκο Α Ι Εινινιι Ãυ

#	Article	IF	CITATIONS
1	Preparation of filter by alkali activation of blast furnace slag and its application for dye removal. Journal of Environmental Chemical Engineering, 2022, 10, 107051.	3.3	17
2	Changes in subchondral bone structure and mechanical properties do not substantially affect cartilage mechanical responses – A finite element study. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 128, 105129.	1.5	4
3	Near infrared spectroscopic evaluation of biochemical and crimp properties of knee joint ligaments and patellar tendon. PLoS ONE, 2022, 17, e0263280.	1.1	2
4	Subchondral bone plate thickness is associated with micromechanical and microstructural changes in the bovine patella osteochondral junction with different levels of cartilage degeneration. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 129, 105158.	1.5	2
5	Reduced Bone Mass in Collagen Prolyl 4â€Hydroxylase <i>P4ha1</i> ^{+/â^'} ; <i>P4ha2</i> ^{â^'/â^'} Compound Mutant Mice. JBMR Plus, 2022, 6, .	1.3	8
6	Comparison of material models for anterior cruciate ligament in tension: from poroelastic to a novel fibril-reinforced nonlinear composite model. Journal of Biomechanics, 2021, 114, 110141.	0.9	9
7	Design and development of poly-L/D-lactide copolymer and barium titanate nanoparticle 3D composite scaffolds using breath figure method for tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2021, 199, 111530.	2.5	10
8	Mineralization of dental tissues and caries lesions detailed with Raman microspectroscopic imaging. Analyst, The, 2021, 146, 1705-1713.	1.7	10
9	Integrin $\hat{I} \pm 11\hat{I}^21$ is a receptor for collagen XIII. Cell and Tissue Research, 2021, 383, 1135-1153.	1.5	14
10	Structure, composition and fibril-reinforced poroviscoelastic properties of bovine knee ligaments and patellar tendon. Journal of the Royal Society Interface, 2021, 18, 20200737.	1.5	8
11	Early changes in osteochondral tissues in a rabbit model of postâ€ŧraumatic osteoarthritis. Journal of Orthopaedic Research, 2021, 39, 2556-2567.	1.2	7
12	Automated analysis of rabbit knee calcified cartilage morphology using microâ€computed tomography and deep learning. Journal of Anatomy, 2021, 239, 251-263.	0.9	10
13	A single intra-articular dose of vitamin D analog calcipotriol alleviates synovitis without adverse effects in rats. PLoS ONE, 2021, 16, e0250352.	1.1	2
14	Endocrine, metabolic and apical effects of in utero and lactational exposure to non-dioxin-like 2,2′,3,4,4′,5,5′-heptachlorobiphenyl (PCB 180): A postnatal follow-up study in rats. Reproductive Toxicology, 2021, 102, 109-127.	1.3	8
15	Biomechanical, biochemical, and near infrared spectral data of bovine knee ligaments and patellar tendon. Data in Brief, 2021, 36, 106976.	0.5	1
16	High-resolution infrared microspectroscopic characterization of cartilage cell microenvironment. Acta Biomaterialia, 2021, 134, 252-260.	4.1	8
17	Synthesis and characterization of porous ceramics from spodumene tailings and waste glass wool. Ceramics International, 2021, 47, 33286-33297.	2.3	20
18	Elastic, Dynamic Viscoelastic and Model-Derived Fibril-Reinforced Poroelastic Mechanical Properties of Normal and Osteoarthritic Human Femoral Condyle Cartilage. Annals of Biomedical Engineering, 2021, 49, 2622-2634.	1.3	11

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19	Bone toxicity induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and the retinoid system: A causality analysis anchored in osteoblast gene expression and mouse data. Reproductive Toxicology, 2021, 105, 25-43.	1.3	12
20	Quantifying Subresolution 3D Morphology of Bone with Clinical Computed Tomography. Annals of Biomedical Engineering, 2020, 48, 595-605.	1.3	11
21	Anterior cruciate ligament transection of rabbits alters composition, structure and biomechanics of articular cartilage and chondrocyte deformation 2†weeks post-surgery in a site-specific manner. Journal of Biomechanics, 2020, 98, 109450.	0.9	17
22	Structure–Function Relationships of Healthy and Osteoarthritic Human Tibial Cartilage: Experimental and Numerical Investigation. Annals of Biomedical Engineering, 2020, 48, 2887-2900.	1.3	30
23	Ag- or Cu-modified geopolymer filters for water treatment manufactured by 3D printing, direct foaming, or granulation. Scientific Reports, 2020, 10, 7233.	1.6	49
24	Bright ultrashort echo time SWIFT MRI signal at the osteochondral junction is not located in the calcified cartilage. Journal of Orthopaedic Research, 2020, 38, 2649-2656.	1.2	6
25	Machine Learning Classification of Articular Cartilage Integrity Using Near Infrared Spectroscopy. Cellular and Molecular Bioengineering, 2020, 13, 219-228.	1.0	25
26	Raman microspectroscopic analysis of the tissue-specific composition of the human osteochondral junction in osteoarthritis: A pilot study. Acta Biomaterialia, 2020, 106, 145-155.	4.1	31
27	Deep-Learning for Tidemark Segmentation in Human Osteochondral Tissues Imaged with Micro-computed Tomography. Lecture Notes in Computer Science, 2020, , 131-138.	1.0	4
28	Comparison of water, hydroxyproline, uronic acid and elastin contents of bovine knee ligaments and patellar tendon and their relationships with biomechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103639.	1.5	8
29	Automating three-dimensional osteoarthritis histopathological grading of human osteochondral tissue using machine learning on contrast-enhanced micro-computed tomography. Osteoarthritis and Cartilage, 2020, 28, 1133-1144.	0.6	11
30	Lack of collagen XVIII leads to lipodystrophy and perturbs hepatic glucose and lipid homeostasis. Journal of Physiology, 2020, 598, 3373-3393.	1.3	14
31	Mineral Crystal Thickness in Calcified Cartilage and Subchondral Bone in Healthy and Osteoarthritic Human Knees. Journal of Bone and Mineral Research, 2020, 37, 1700-1710.	3.1	8
32	Three-dimensional microstructure of human meniscus posterior horn in health and osteoarthritis. Osteoarthritis and Cartilage, 2019, 27, 1790-1799.	0.6	17
33	Histochemical quantification of collagen content in articular cartilage. PLoS ONE, 2019, 14, e0224839.	1.1	44
34	Chemical imaging of human teeth by a time-resolved Raman spectrometer based on a CMOS single-photon avalanche diode line sensor. Analyst, The, 2019, 144, 6089-6097.	1.7	17
35	Elastic, Viscoelastic and Fibril-Reinforced Poroelastic Material Properties of Healthy and Osteoarthritic Human Tibial Cartilage. Annals of Biomedical Engineering, 2019, 47, 953-966.	1.3	43
36	Anterior cruciate ligament transection alters the n-3/n-6 fatty acid balance in the lapine infrapatellar fat pad. Lipids in Health and Disease, 2019, 18, 67.	1.2	17

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37	Quantifying Complex Microâ€Topography of Degenerated Articular Cartilage Surface by Contrastâ€Enhanced Microâ€Computed Tomography and Parametric Analyses. Journal of Orthopaedic Research, 2019, 37, 855-866.	1.2	7
38	Localized delivery of compounds into articular cartilage by using high-intensity focused ultrasound. Scientific Reports, 2019, 9, 15937.	1.6	2
39	3D morphometric analysis of calcified cartilage properties using micro-computed tomography. Osteoarthritis and Cartilage, 2019, 27, 172-180.	0.6	19
40	Recent advances in understanding the phenotypes of osteoarthritis. F1000Research, 2019, 8, 2091.	0.8	103
41	Experimental mechanical strain measurement of tissues. PeerJ, 2019, 7, e6545.	0.9	16
42	Biodegradation of inorganic drug delivery systems in subcutaneous conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 113-125.	2.0	9
43	Effects of tofacitinib in early arthritis-induced bone loss in an adjuvant-induced arthritis rat model. Rheumatology, 2018, 57, 1461-1471.	0.9	27
44	Delivery of Agents Into Articular Cartilage With Electric Spark-Induced Sound Waves. Frontiers in Physics, 2018, 6, .	1.0	2
45	Iterative and discrete reconstruction in the evaluation of the rabbit model of osteoarthritis. Scientific Reports, 2018, 8, 12051.	1.6	6
46	InÂvitro method for 3D morphometry of human articular cartilage chondrons based on micro-computed tomography. Osteoarthritis and Cartilage, 2018, 26, 1118-1126.	0.6	15
47	Site-specific glycosaminoglycan content is better maintained in the pericellular matrix than the extracellular matrix in early post-traumatic osteoarthritis. PLoS ONE, 2018, 13, e0196203.	1.1	18
48	Osteogenic Differentiation of Human Mesenchymal Stem cells in a 3D Woven Scaffold. Scientific Reports, 2018, 8, 10457.	1.6	83
49	Composition, structure and tensile biomechanical properties of equine articular cartilage during growth and maturation. Scientific Reports, 2018, 8, 11357.	1.6	31
50	Deep Learning Classification of Cartilage Integrity Using Near Infrared Spectroscopy. , 2018, , .		2
51	Early arthritis induces disturbances at bone nanostructural level reflected in decreased tissue hardness in an animal model of arthritis. PLoS ONE, 2018, 13, e0190920.	1.1	10
52	Raccoon dog model shows preservation of bone during prolonged catabolism and reduced physical activity. Journal of Experimental Biology, 2017, 220, 2196-2202.	0.8	2
53	Genetic modifications of Mecr reveal a role for mitochondrial 2-enoyl-CoA/ACP reductase in placental development in mice. Human Molecular Genetics, 2017, 26, 2104-2117.	1.4	31
54	Effect of celastrol on bone structure and mechanics in arthritic rats. RMD Open, 2017, 3, e000438.	1.8	22

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55	Correlations of low-field NMR and variable-field NMR parameters with osteoarthritis in human articular cartilage under load. NMR in Biomedicine, 2017, 30, e3738.	1.6	9
56	Association between subchondral bone structure and osteoarthritis histopathological grade. Journal of Orthopaedic Research, 2017, 35, 785-792.	1.2	81
57	Skeletal and dental effects on rats following in utero/lactational exposure to the non-dioxin-like polychlorinated biphenyl PCB 180. PLoS ONE, 2017, 12, e0185241.	1.1	13
58	Subchondral bone histology and grading in osteoarthritis. PLoS ONE, 2017, 12, e0173726.	1.1	75
59	Effects of Articular Cartilage Constituents on Phosphotungstic Acid Enhanced Micro-Computed Tomography. PLoS ONE, 2017, 12, e0171075.	1.1	32
60	Effects of developmental exposure to perfluorooctanoic acid (PFOA) on long bone morphology and bone cell differentiation. Toxicology and Applied Pharmacology, 2016, 301, 14-21.	1.3	55
61	Imaging of Osteoarthritic Human Articular Cartilage using Fourier Transform Infrared Microspectroscopy Combined with Multivariate and Univariate Analysis. Scientific Reports, 2016, 6, 30008.	1.6	29
62	Correlation of Subchondral Bone Density and Structure from Plain Radiographs with Micro Computed Tomography Ex Vivo. Annals of Biomedical Engineering, 2016, 44, 1698-1709.	1.3	19
63	Micro-CT Analysis of Bone Healing in Rabbit Calvarial Critical-Sized Defects with Solid Bioactive Glass, Tricalcium Phosphate Granules or Autogenous Bone. Journal of Oral & Maxillofacial Research, 2016, 7, e4.	0.3	18
64	Overexpression of spermidine/spermine N 1-acetyltransferase impairs osteoblastogenesis and alters mouse bone phenotype. Transgenic Research, 2015, 24, 253-265.	1.3	8
65	Severe Extracellular Matrix Abnormalities and Chondrodysplasia in Mice Lacking Collagen Prolyl 4-Hydroxylase Isoenzyme II in Combination with a Reduced Amount of Isoenzyme I. Journal of Biological Chemistry, 2015, 290, 16964-16978.	1.6	43
66	Determining collagen distribution in articular cartilage using contrast-enhanced micro-computed tomography. Osteoarthritis and Cartilage, 2015, 23, 1613-1621.	0.6	54
67	Physiological condition of bank voles (Myodes glareolus) during the increase and decline phases of the population cycle. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 187, 141-149.	0.8	4
68	Multiparametric MRI assessment of human articular cartilage degeneration: Correlation with quantitative histology and mechanical properties. Magnetic Resonance in Medicine, 2015, 74, 249-259.	1.9	59
69	Local Binary Patterns to Evaluate Trabecular Bone Structure from Micro-CT Data: Application to Studies of Human Osteoarthritis. Lecture Notes in Computer Science, 2015, , 63-79.	1.0	4
70	Toxicological Profile of Ultrapure 2,2′,3,4,4′,5,5′-Heptachlorbiphenyl (PCB 180) in Adult Rats. PLoS ONE, 2014, 9, e104639.	1.1	25
71	The effect of fatty acid positioning in dietary triacylglycerols and intake of long-chain n-3 polyunsaturated fatty acids on bone mineral accretion in growing piglets. Prostaglandins Leukotrienes and Essential Fatty Acids, 2013, 89, 235-240.	1.0	6
72	New insights to the role of aryl hydrocarbon receptor in bone phenotype and in dioxin-induced modulation of bone microarchitecture and material properties. Toxicology and Applied Pharmacology, 2013, 273, 219-226.	1.3	36

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73	Trabecular Homogeneity Index Derived From Plain Radiograph to Evaluate Bone Quality. Journal of Bone and Mineral Research, 2013, 28, 2584-2591.	3.1	15
74	Preservation of bone mass and biomechanical properties during winter sleep—the raccoon dog (Nyctereutes procyonoides) as a novel model species. Bone, 2011, 48, 878-884.	1.4	7
75	PHOSPHO1 is essential for mechanically competent mineralization and the avoidance of spontaneous fractures. Bone, 2011, 48, 1066-1074.	1.4	71
76	In utero and lactational exposure to Aroclor 1254 affects bone geometry, mineral density and biomechanical properties of rat offspring. Toxicology Letters, 2011, 207, 82-88.	0.4	17
77	Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure on bone material properties. Journal of Biomechanics, 2010, 43, 1097-1103.	0.9	47
78	Long-term voluntary exercise of male mice induces more beneficial effects on cancellous and cortical bone than on the collagenous matrix. Experimental Gerontology, 2009, 44, 708-717.	1.2	23
79	Physical Exercise Improves Properties of Bone and Its Collagen Network in Growing and Maturing Mice. Calcified Tissue International, 2009, 85, 247-256.	1.5	45
80	The role of AhR in doxin-induced modulation of bone microarchitecture and mechanical strength. Toxicology Letters, 2009, 189, S197-S198.	0.4	1
81	Assessment of Ligament Viscoelastic Properties Using Raman Spectroscopy. Annals of Biomedical Engineering, 0, , .	1.3	0