

Juha TÄŷyrÄŷs

List of Publications by Year in descending order

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291
papers

9,208
citations

41344

49
h-index

66911

78
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299
all docs

299
docs citations

299
times ranked

5638
citing authors

#	ARTICLE	IF	CITATIONS
1	T2relaxation reveals spatial collagen architecture in articular cartilage: A comparative quantitative MRI and polarized light microscopic study. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 487-493.	3.0	392
2	Comparison of the equilibrium response of articular cartilage in unconfined compression, confined compression and indentation. <i>Journal of Biomechanics</i> , 2002, 35, 903-909.	2.1	375
3	Fibril reinforced poroelastic model predicts specifically mechanical behavior of normal, proteoglycan depleted and collagen degraded articular cartilage. <i>Journal of Biomechanics</i> , 2003, 36, 1373-1379.	2.1	243
4	Quantitative MR microscopy of enzymatically degraded articular cartilage. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 676-681.	3.0	201
5	Proteoglycan and collagen sensitive MRI evaluation of normal and degenerated articular cartilage. <i>Journal of Orthopaedic Research</i> , 2004, 22, 557-564.	2.3	147
6	Characterization of enzymatically induced degradation of articular cartilage using high frequency ultrasound. <i>Physics in Medicine and Biology</i> , 1999, 44, 2723-2733.	3.0	143
7	Spatial assessment of articular cartilage proteoglycans with Gd-DTPA-enhanced T1 imaging. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 640-648.	3.0	139
8	Collagen network primarily controls Poisson's ratio of bovine articular cartilage in compression. <i>Journal of Orthopaedic Research</i> , 2006, 24, 690-699.	2.3	126
9	Estimation of the Young's modulus of articular cartilage using an arthroscopic indentation instrument and ultrasonic measurement of tissue thickness. <i>Journal of Biomechanics</i> , 2001, 34, 251-256.	2.1	123
10	Prediction of biomechanical properties of articular cartilage with quantitative magnetic resonance imaging. <i>Journal of Biomechanics</i> , 2004, 37, 321-328.	2.1	123
11	Structure-Function Relationships in Enzymatically Modified Articular Cartilage. <i>Cells Tissues Organs</i> , 2003, 175, 121-132.	2.3	117
12	Ultrasonic quantitation of superficial degradation of articular cartilage. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 783-792.	1.5	105
13	Speed of sound in normal and degenerated bovine articular cartilage. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 447-454.	1.5	104
14	Novel mechano-acoustic technique and instrument for diagnosis of cartilage degeneration. <i>Physiological Measurement</i> , 2002, 23, 491-503.	2.1	103
15	T2 relaxation time mapping reveals age- and species-related diversity of collagen network architecture in articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 1265-1271.	1.3	100
16	Novel parameters indicate significant differences in severity of obstructive sleep apnea with patients having similar apnea-hypopnea index. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 697-708.	2.8	96
17	Deformation of articular cartilage during static loading of a knee joint – Experimental and finite element analysis. <i>Journal of Biomechanics</i> , 2014, 47, 2467-2474.	2.1	92
18	Real-time ultrasound analysis of articular cartilage degradation in vitro. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 519-525.	1.5	91

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19	Bone mineral density, ultrasound velocity, and broadband attenuation predict mechanical properties of trabecular bone differently. <i>Bone</i> , 2002, 31, 503-507.	2.9	87
20	Prediction of density and mechanical properties of human trabecular bone in vitro by using ultrasound transmission and backscattering measurements at 0.2–6.7 MHz frequency range. <i>Physics in Medicine and Biology</i> , 2005, 50, 1629-1642.	3.0	86
21	Indentation diagnostics of cartilage degeneration. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 796-804.	1.3	86
22	Ultrasonic characterization of human trabecular bone microstructure. <i>Physics in Medicine and Biology</i> , 2006, 51, 1633-1648.	3.0	85
23	Estimation of mechanical properties of articular cartilage with MRI – dGEMRIC, T2 and T1 imaging in different species with variable stages of maturation. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 1141-1148.	1.3	80
24	Importance of depth-wise distribution of collagen and proteoglycans in articular cartilage – A 3D finite element study of stresses and strains in human knee joint. <i>Journal of Biomechanics</i> , 2013, 46, 1184-1192.	2.1	80
25	Characterization of site-specific biomechanical properties of human meniscus – Importance of collagen and fluid on mechanical nonlinearities. <i>Journal of Biomechanics</i> , 2015, 48, 1499-1507.	2.1	80
26	Quantitative ultrasound imaging detects degenerative changes in articular cartilage surface and subchondral bone. <i>Physics in Medicine and Biology</i> , 2006, 51, 5333-5346.	3.0	79
27	Longitudinal elastic properties and porosity of cortical bone tissue vary with age in human proximal femur. <i>Bone</i> , 2013, 53, 451-458.	2.9	78
28	pQCT study on diffusion and equilibrium distribution of iodinated anionic contrast agent in human articular cartilage – associations to matrix composition and integrity. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 26-32.	1.3	76
29	Ability of ultrasound backscattering to predict mechanical properties of bovine trabecular bone. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 919-927.	1.5	75
30	Ultrasound Backscatter Imaging Provides Frequency-Dependent Information on Structure, Composition and Mechanical Properties of Human Trabecular Bone. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1376-1384.	1.5	75
31	The severity of individual obstruction events is related to increased mortality rate in severe obstructive sleep apnea. <i>Journal of Sleep Research</i> , 2013, 22, 663-669.	3.2	75
32	Contrast agent enhanced pQCT of articular cartilage. <i>Physics in Medicine and Biology</i> , 2007, 52, 1209-1219.	3.0	74
33	Deep learning enables sleep staging from photoplethysmogram for patients with suspected sleep apnea. <i>Sleep</i> , 2020, 43, .	1.1	73
34	Multi-site bone ultrasound measurements in elderly women with and without previous hip fractures. <i>Osteoporosis International</i> , 2012, 23, 1287-1295.	3.1	72
35	Ultrasound attenuation in normal and spontaneously degenerated articular cartilage. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 493-500.	1.5	71
36	Ultrasound indentation of normal and spontaneously degenerated bovine articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2003, 11, 697-705.	1.3	70

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37	Severity of Desaturations Reflects OSA-Related Daytime Sleepiness Better Than AHI. <i>Journal of Clinical Sleep Medicine</i> , 2019, 15, 1135-1142.	2.6	69
38	Contrast agent-enhanced computed tomography of articular cartilage: Association with tissue composition and properties. <i>Acta Radiologica</i> , 2009, 50, 78-85.	1.1	65
39	Detection of mechanical injury of articular cartilage using contrast enhanced computed tomography. <i>Osteoarthritis and Cartilage</i> , 2011, 19, 295-301.	1.3	65
40	Accurate Deep Learning-Based Sleep Staging in a Clinical Population with Suspected Obstructive Sleep Apnea. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 24, 1-1.	6.3	64
41	Diffusion and near-equilibrium distribution of MRI and CT contrast agents in articular cartilage. <i>Physics in Medicine and Biology</i> , 2009, 54, 6823-6836.	3.0	61
42	Quantitative Evaluation of the Mechanical Risks Caused by Focal Cartilage Defects in the Knee. <i>Scientific Reports</i> , 2016, 6, 37538.	3.3	59
43	Alterations in structure and properties of collagen network of osteoarthritic and repaired cartilage modify knee joint stresses. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 357-369.	2.8	56
44	Adjustment of apnea-hypopnea index with severity of obstruction events enhances detection of sleep apnea patients with the highest risk of severe health consequences. <i>Sleep and Breathing</i> , 2014, 18, 641-647.	1.7	54
45	In vivo diagnostics of human knee cartilage lesions using delayed CBCT arthrography. <i>Journal of Orthopaedic Research</i> , 2014, 32, 403-412.	2.3	52
46	Diffusion coefficients of articular cartilage for different CT and MRI contrast agents. <i>Medical Engineering and Physics</i> , 2010, 32, 878-882.	1.7	51
47	Optimization of the arthroscopic indentation instrument for the measurement of thin cartilage stiffness. <i>Physics in Medicine and Biology</i> , 1999, 44, 2511-2524.	3.0	50
48	Bone properties as estimated by mineral density, ultrasound attenuation, and velocity. <i>Bone</i> , 1999, 25, 725-731.	2.9	50
49	Minimally Invasive Ultrasound Method for Intra-Articular Diagnostics of Cartilage Degeneration. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1546-1554.	1.5	50
50	Electrical and dielectric properties of bovine trabecular bone—relationships with mechanical properties and mineral density. <i>Physics in Medicine and Biology</i> , 2003, 48, 775-786.	3.0	48
51	Prediction of mechanical properties of human trabecular bone by electrical measurements. <i>Physiological Measurement</i> , 2005, 26, S119-S131.	2.1	48
52	Ultrasound indentation of bovine knee articular cartilage in situ. <i>Journal of Biomechanics</i> , 2003, 36, 1259-1267.	2.1	47
53	Assessment of the suitability of using a forehead <sc>EEG</sc> electrode set and chin <sc>EMG</sc> electrodes for sleep staging in polysomnography. <i>Journal of Sleep Research</i> , 2016, 25, 636-645.	3.2	47
54	Inactivation of one allele of the type II collagen gene alters the collagen network in murine articular cartilage and makes cartilage softer. <i>Annals of the Rheumatic Diseases</i> , 2001, 60, 262-268.	0.9	46

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55	Computed tomography detects changes in contrast agent diffusion after collagen cross-linking typical to natural aging of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2011, 19, 1190-1198.	1.3	46
56	Structural parameters of normal and osteoporotic human trabecular bone are affected differently by microCT image resolution. <i>Osteoporosis International</i> , 2011, 22, 167-177.	3.1	46
57	Characterization of connective tissues using near-infrared spectroscopy and imaging. <i>Nature Protocols</i> , 2021, 16, 1297-1329.	12.0	45
58	Severity of desaturation events differs between hypopnea and obstructive apnea events and is modulated by their duration in obstructive sleep apnea. <i>Sleep and Breathing</i> , 2017, 21, 829-835.	1.7	44
59	Influence of overlying soft tissues on trabecular bone acoustic measurement at various ultrasound frequencies. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1073-1083.	1.5	43
60	New method for point-of-care osteoporosis screening and diagnostics. <i>Osteoporosis International</i> , 2016, 27, 971-977.	3.1	43
61	Vibrational spectroscopy of articular cartilage. <i>Applied Spectroscopy Reviews</i> , 2017, 52, 249-266.	6.7	43
62	Quantitative MRI of parallel changes of articular cartilage and underlying trabecular bone in degeneration. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 1149-1157.	1.3	42
63	Optimal graft stiffness and pre-strain restore normal joint motion and cartilage responses in ACL reconstructed knee. <i>Journal of Biomechanics</i> , 2016, 49, 2566-2576.	2.1	42
64	Structure-function relationships of human meniscus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 67, 51-60.	3.1	42
65	Severity of individual obstruction events increases with age in patients with obstructive sleep apnea. <i>Sleep Medicine</i> , 2017, 37, 32-37.	1.6	42
66	Artificial neural network analysis of the oxygen saturation signal enables accurate diagnostics of sleep apnea. <i>Scientific Reports</i> , 2019, 9, 13200.	3.3	42
67	Effect of human trabecular bone composition on its electrical properties. <i>Medical Engineering and Physics</i> , 2007, 29, 845-852.	1.7	40
68	Simultaneous computed tomography of articular cartilage and subchondral bone. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 1583-1588.	1.3	40
69	Ultrasonic assessment of cortical bone thickness in vitro and in vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 2191-2197.	3.0	39
70	Diffusion of Gd-DTPA ²⁺ into articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 117-126.	1.3	39
71	In vivo comparison of delayed gadolinium-enhanced MRI of cartilage and delayed quantitative CT arthrography in imaging of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 434-442.	1.3	39
72	Repair of osteochondral defects with recombinant human type II collagen gel and autologous chondrocytes in rabbit. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 481-490.	1.3	39

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73	Comparison of novel clinically applicable methodology for sensitive diagnostics of cartilage degeneration. , 2007, 13, 46-55.		39
74	Acoustic Properties of Trabecular Bone Relationships to Tissue Composition. Ultrasound in Medicine and Biology, 2007, 33, 1438-1444.	1.5	38
75	Open-source python module for automated preprocessing of near infrared spectroscopic data. Analytica Chimica Acta, 2020, 1108, 1-9.	5.4	37
76	Quantitative ultrasound imaging of spontaneous repair of porcine cartilage. Osteoarthritis and Cartilage, 2006, 14, 258-263.	1.3	36
77	Fabrication and testing of polyimide-based microelectrode arrays for cortical mapping of evoked potentials. Biosensors and Bioelectronics, 2009, 24, 3067-3072.	10.1	36
78	Delayed Computed Tomography Arthrography of Human Knee Cartilage <i>In Vivo</i> . Cartilage, 2012, 3, 334-341.	2.7	36
79	Screen-printed EEG electrode set for emergency use. Sensors and Actuators A: Physical, 2014, 213, 19-26.	4.1	36
80	Effect of Sweating on Electrode-Skin Contact Impedances and Artifacts in EEG Recordings With Various Screen-Printed Ag/AgCl Electrodes. IEEE Access, 2020, 8, 50934-50943.	4.2	36
81	Dual energy x-ray laser measurement of calcaneal bone mineral density. Physics in Medicine and Biology, 2003, 48, 1741-1752.	3.0	35
82	Arthroscopic Ultrasound Assessment of Articular Cartilage in the Human Knee Joint. Cartilage, 2011, 2, 246-253.	2.7	35
83	Severe desaturations increase psychomotor vigilance task-based median reaction time and number of lapses in obstructive sleep apnoea patients. European Respiratory Journal, 2020, 55, 1901849.	6.7	35
84	Interrelationships between electrical properties and microstructure of human trabecular bone. Physics in Medicine and Biology, 2006, 51, 5289-5303.	3.0	34
85	Spatial variation of acoustic properties is related with mechanical properties of trabecular bone. Physics in Medicine and Biology, 2007, 52, 6961-6968.	3.0	34
86	Comparison of ultrasound and optical coherence tomography techniques for evaluation of integrity of spontaneously repaired horse cartilage. Journal of Medical Engineering and Technology, 2012, 36, 185-192.	1.4	34
87	Severity of individual obstruction events is gender dependent in sleep apnea. Sleep and Breathing, 2017, 21, 397-404.	1.7	34
88	Quantitative Evaluation of Spontaneously and Surgically Repaired Rabbit Articular Cartilage Using Intra-Articular Ultrasound Method in situ. Ultrasound in Medicine and Biology, 2010, 36, 833-839.	1.5	33
89	Importance of Patella, Quadriceps Forces, and Depthwise Cartilage Structure on Knee Joint Motion and Cartilage Response During Gait. Journal of Biomechanical Engineering, 2016, 138, .	1.3	33
90	Home Polysomnography Reveals a First-Night Effect in Patients With Low Sleep Bruxism Activity. Journal of Clinical Sleep Medicine, 2018, 14, 1377-1386.	2.6	33

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91	Arthroscopic near infrared spectroscopy enables simultaneous quantitative evaluation of articular cartilage and subchondral bone in vivo. <i>Scientific Reports</i> , 2018, 8, 13409.	3.3	33
92	MECHANO-ACOUSTIC DIAGNOSIS OF CARTILAGE DEGENERATION AND REPAIR. <i>Journal of Bone and Joint Surgery - Series A</i> , 2003, 85, 78-84.	3.0	33
93	Ultrasound Arthroscopy of Human Knee Cartilage and Subchondral Bone in Vivo. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2039-2047.	1.5	32
94	Arthroscopic Determination of Cartilage Proteoglycan Content and Collagen Network Structure with Near-Infrared Spectroscopy. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1815-1826.	2.5	32
95	Dual-Frequency Ultrasound "New Pulse" Echo Technique for Bone Densitometry. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1703-1708.	1.5	31
96	Effect of Bone Marrow on Acoustic Properties of Trabecular Bone - 3D Finite Difference Modeling Study. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 308-318.	1.5	31
97	Length of Individual Apnea Events Is Increased by Supine Position and Modulated by Severity of Obstructive Sleep Apnea. <i>Sleep Disorders</i> , 2016, 2016, 1-13.	1.4	31
98	In Vivo Contrast-Enhanced Cone Beam CT Provides Quantitative Information on Articular Cartilage and Subchondral Bone. <i>Annals of Biomedical Engineering</i> , 2017, 45, 811-818.	2.5	31
99	Site-specific ultrasound reflection properties and superficial collagen content of bovine knee articular cartilage. <i>Physics in Medicine and Biology</i> , 2005, 50, 3221-3233.	3.0	30
100	Ultrasound Speed in Articular Cartilage Under Mechanical Compression. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1755-1766.	1.5	30
101	The zonal architecture of human articular cartilage described by T2 relaxation time in the presence of Gd-DTPA ²⁺ . <i>Magnetic Resonance Imaging</i> , 2008, 26, 602-607.	1.8	30
102	Evaluation of a Novel Ambulatory Device for Screening of Sleep Apnea. <i>Telemedicine Journal and E-Health</i> , 2009, 15, 283-289.	2.8	30
103	Ultrasound backscatter measurements of intact human proximal femurs "Relationships of ultrasound parameters with tissue structure and mineral density. <i>Bone</i> , 2014, 64, 240-245.	2.9	30
104	Optical absorption spectra of human articular cartilage correlate with biomechanical properties, histological score and biochemical composition. <i>Physiological Measurement</i> , 2015, 36, 1913-1928.	2.1	29
105	Comparison between kinetic and kinetic-kinematic driven knee joint finite element models. <i>Scientific Reports</i> , 2018, 8, 17351.	3.3	29
106	Simultaneous ultrasound measurement of articular cartilage and subchondral bone. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 1570-1576.	1.3	28
107	Arthroscopic Ultrasound Technique for Simultaneous Quantitative Assessment of Articular Cartilage and Subchondral Bone: An In Vitro and In Vivo Feasibility Study. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1460-1468.	1.5	28
108	Forehead EEG electrode set versus full-head scalp EEG in 100 patients with altered mental state. <i>Epilepsy and Behavior</i> , 2015, 49, 245-249.	1.7	28

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109	Articular cartilage repair with recombinant human type II collagen/poly lactide scaffold in a preliminary porcine study. <i>Journal of Orthopaedic Research</i> , 2016, 34, 745-753.	2.3	28
110	Effect of bone inhomogeneity on tibiofemoral contact mechanics during physiological loading. <i>Journal of Biomechanics</i> , 2016, 49, 1111-1120.	2.1	28
111	Arthroscopic optical coherence tomography provides detailed information on articular cartilage lesions in horses. <i>Veterinary Journal</i> , 2013, 197, 589-595.	1.7	27
112	Dual-frequency ultrasound technique minimizes errors induced by soft tissue in ultrasound bone densitometry. <i>Acta Radiologica</i> , 2008, 49, 1038-1041.	1.1	26
113	Ultrasound evaluation of mechanical injury of bovine knee articular cartilage under arthroscopic control. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 148-155.	3.0	26
114	Relationships between tissue composition and viscoelastic properties in human trabecular bone. <i>Journal of Biomechanics</i> , 2015, 48, 269-275.	2.1	26
115	Experimental and numerical validation for the novel configuration of an arthroscopic indentation instrument. <i>Physics in Medicine and Biology</i> , 2003, 48, 1565-1576.	3.0	25
116	Success Rate and Technical Quality of Home Polysomnography With Self-Applicable Electrode Set in Subjects With Possible Sleep Bruxism. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1124-1132.	6.3	25
117	Near-infrared spectroscopy enables quantitative evaluation of human cartilage biomechanical properties during arthroscopy. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 1235-1243.	1.3	25
118	Prevalence and characteristics of positional obstructive sleep apnea (POSA) in patients with severe OSA. <i>Sleep and Breathing</i> , 2020, 24, 551-559.	1.7	25
119	Longer apneas and hypopneas are associated with greater ultra-short-term HRV in obstructive sleep apnea. <i>Scientific Reports</i> , 2020, 10, 21556.	3.3	25
120	Machine Learning Classification of Articular Cartilage Integrity Using Near Infrared Spectroscopy. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 219-228.	2.1	25
121	Effects of Ultrasound Beam Angle and Surface Roughness on the Quantitative Ultrasound Parameters of Articular Cartilage. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1344-1351.	1.5	24
122	New disposable forehead electrode set with excellent signal quality and imaging compatibility. <i>Journal of Neuroscience Methods</i> , 2013, 215, 103-109.	2.5	24
123	Bath Concentration of Anionic Contrast Agents Does Not Affect Their Diffusion and Distribution in Articular Cartilage <i>In Vitro</i> . <i>Cartilage</i> , 2013, 4, 42-51.	2.7	24
124	Near Infrared Spectroscopic Mapping of Functional Properties of Equine Articular Cartilage. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3335-3345.	2.5	24
125	Increase in Body Mass Index Decreases Duration of Apneas and Hypopneas in Obstructive Sleep Apnea. <i>Respiratory Care</i> , 2019, 64, 77-84.	1.6	24
126	Neural network analysis of nocturnal SpO2 signal enables easy screening of sleep apnea in patients with acute cerebrovascular disease. <i>Sleep Medicine</i> , 2021, 79, 71-78.	1.6	24

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127	Automatic Respiratory Event Scoring in Obstructive Sleep Apnea Using a Long Short-Term Memory Neural Network. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2917-2927.	6.3	24
128	The Sleep Revolution project: the concept and objectives. Journal of Sleep Research, 2022, 31, .	3.2	24
129	In-Vitro Comparison of Time-Domain, Frequency-Domain and Wavelet Ultrasound Parameters in Diagnostics of Cartilage Degeneration. Ultrasound in Medicine and Biology, 2008, 34, 155-159.	1.5	23
130	Diffusion of ionic and non-ionic contrast agents in articular cartilage with increased cross-linking—Contribution of steric and electrostatic effects. Medical Engineering and Physics, 2013, 35, 1415-1420.	1.7	23
131	Multi-scale imaging techniques to investigate solute transport across articular cartilage. Journal of Biomechanics, 2018, 78, 10-20.	2.1	23
132	Dual Contrast CT Method Enables Diagnostics of Cartilage Injuries and Degeneration Using a Single CT Image. Annals of Biomedical Engineering, 2017, 45, 2857-2866.	2.5	22
133	Tissue viscoelasticity is related to tissue composition but may not fully predict the apparent-level viscoelasticity in human trabecular bone — An experimental and finite element study. Journal of Biomechanics, 2017, 65, 96-105.	2.1	22
134	Mortality in middle-aged men with obstructive sleep apnea in Finland. Sleep and Breathing, 2013, 17, 1047-1053.	1.7	21
135	Importance of Material Properties and Porosity of Bone on Mechanical Response of Articular Cartilage in Human Knee Joint—A Two-Dimensional Finite Element Study. Journal of Biomechanical Engineering, 2014, 136, 121005.	1.3	21
136	Effects of Freeze—Thaw Cycle with and without Proteolysis Inhibitors and Cryopreservant on the Biochemical and Biomechanical Properties of Articular Cartilage. Cartilage, 2014, 5, 97-106.	2.7	20
137	Contrast-Enhanced Computed Tomography Enables Quantitative Evaluation of Tissue Properties at Intra-joint Regions in Cadaveric Knee Cartilage. Cartilage, 2017, 8, 391-399.	2.7	20
138	Quantitative susceptibility mapping of articular cartilage: Ex vivo findings at multiple orientations and following different degradation treatments. Magnetic Resonance in Medicine, 2018, 80, 2702-2716.	3.0	20
139	Quantitative Dual Contrast CT Technique for Evaluation of Articular Cartilage Properties. Annals of Biomedical Engineering, 2018, 46, 1038-1046.	2.5	20
140	Correlation of Subchondral Bone Density and Structure from Plain Radiographs with Micro Computed Tomography Ex Vivo. Annals of Biomedical Engineering, 2016, 44, 1698-1709.	2.5	19
141	Hyperosmolar contrast agents in cartilage tomography may expose cartilage to overload-induced cell death. Journal of Biomechanics, 2012, 45, 497-503.	2.1	18
142	Gender differences in severity of desaturation events following hypopnea and obstructive apnea events in adults during sleep. Physiological Measurement, 2017, 38, 1490-1502.	2.1	18
143	Differences in arousal probability and duration after apnea and hypopnea events in adult obstructive sleep apnea patients. Physiological Measurement, 2018, 39, 114004.	2.1	18
144	Computational evaluation of altered biomechanics related to articular cartilage lesions observed in vivo. Journal of Orthopaedic Research, 2019, 37, 1042-1051.	2.3	18

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145	Imaging of proteoglycan and water contents in human articular cartilage with full-body CT using dual contrast technique. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1059-1070.	2.3	18
146	Mechano-acoustic determination of Young's modulus of articular cartilage. <i>Biorheology</i> , 2004, 41, 167-79.	0.4	18
147	Amount of weight loss or gain influences the severity of respiratory events in sleep apnea. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 975-988.	2.8	17
148	Quantitative Evaluation of Knee Subchondral Bone Mineral Density Using Cone Beam Computed Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2186-2190.	8.9	17
149	Cationic Contrast Agent Diffusion Differs Between Cartilage and Meniscus. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2913-2921.	2.5	17
150	Mortality-risk-based apnea-hypopnea index thresholds for diagnostics of obstructive sleep apnea. <i>Journal of Sleep Research</i> , 2019, 28, e12855.	3.2	17
151	Polysomnographic scoring of sleep bruxism events is accurate even in the absence of video recording but unreliable with EMG-only setups. <i>Sleep and Breathing</i> , 2020, 24, 893-904.	1.7	17
152	Identification of locations susceptible to osteoarthritis in patients with anterior cruciate ligament reconstruction: Combining knee joint computational modelling with follow-up T1 and T2 imaging. <i>Clinical Biomechanics</i> , 2020, 79, 104844.	1.2	17
153	Longer and Deeper Desaturations Are Associated With the Worsening of Mild Sleep Apnea: The Sleep Heart Health Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 657126.	2.8	17
154	Assessment of obstructive sleep apnea-related sleep fragmentation utilizing deep learning-based sleep staging from photoplethysmography. <i>Sleep</i> , 2021, 44, .	1.1	17
155	Effect of different oxygen desaturation threshold levels on hypopnea scoring and classification of severity of sleep apnea. <i>Sleep and Breathing</i> , 2015, 19, 947-954.	1.7	16
156	Combination of optical coherence tomography and near infrared spectroscopy enhances determination of articular cartilage composition and structure. <i>Scientific Reports</i> , 2017, 7, 10586.	3.3	16
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