

Saeed Jerban

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

441
citations

14
h-index

18
g-index

52
ext. papers

650
ext. citations

4.3
avg, IF

4.02
L-index

#	Paper	IF	Citations
50	Correlation between the elastic modulus of anterior cruciate ligament (ACL) and quantitative ultrashort echo time (UTE) magnetic resonance imaging.. <i>Journal of Orthopaedic Research</i> , 2022 ,	3.8	2
49	MRI-based mechanical competence assessment of bone using micro finite element analysis (micro-FEA): Review.. <i>Magnetic Resonance Imaging</i> , 2022 , 88, 9-9	3.3	0
48	Quantitative assessment of articular cartilage degeneration using 3D ultrashort echo time cones adiabatic T (3D UTE-Cones-AdiabT) imaging.. <i>European Radiology</i> , 2022 , 1	8	0
47	AcidoCEST-UTE MRI Reveals an Acidic Microenvironment in Knee Osteoarthritis.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
46	Lower Macromolecular Content in Tendons of Female Patients with Osteoporosis versus Patients with Osteopenia Detected by Ultrashort Echo Time (UTE) MRI. <i>Diagnostics</i> , 2022 , 12, 1061	3.8	1
45	Ultrashort echo time Cones double echo steady state (UTE-Cones-DESS) for rapid morphological imaging of short T tissues. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 881-892	4.4	2
44	Quantitative 3D Ultrashort Echo Time Magnetization Transfer Imaging for Evaluation of Knee Cartilage Degeneration In Vivo. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 1294-1302	5.6	1
43	High-contrast osteochondral junction imaging using a 3D dual adiabatic inversion recovery-prepared ultrashort echo time cones sequence. <i>NMR in Biomedicine</i> , 2021 , 34, e4559	4.4	1
42	Ultrashort echo time adiabatic T (UTE-Adiab-T) is sensitive to human cadaveric knee joint deformation induced by mechanical loading and unloading. <i>Magnetic Resonance Imaging</i> , 2021 , 80, 98-103 ³		0
41	3D UTE bicomponent imaging of cortical bone using a soft-hard composite pulse for excitation. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1581-1589	4.4	0
40	Detecting Articular Cartilage and Meniscus Deformation Effects Using Magnetization Transfer Ultrashort Echo Time (MT-UTE) Modeling during Mechanical Load Application: Feasibility Study. <i>Cartilage</i> , 2020 , 1947603520976771	3	0
39	Convincing evidence for magic angle less-sensitive quantitative T imaging of articular cartilage using the 3D ultrashort echo time cones adiabatic T (3D UTE cones-AdiabT) sequence. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2551-2560	4.4	11
38	Magic angle effect on adiabatic T imaging of the Achilles tendon using 3D ultrashort echo time cones trajectory. <i>NMR in Biomedicine</i> , 2020 , 33, e4322	4.4	6
37	Three-Dimensional Zero Echo Time Magnetic Resonance Imaging Versus 3-Dimensional Computed Tomography for Glenoid Bone Assessment. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2020 , 36, 2391-2400	5.4	16
36	Inversion recovery zero echo time (IR-ZTE) imaging for direct myelin detection in human brain: a feasibility study. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020 , 10, 895-906	3.6	5
35	Rotator Cuff Tendon Assessment in Symptomatic and Control Groups Using Quantitative MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 864-872	5.6	6
34	Quantitative Magnetic Resonance Imaging of Cortical and Trabecular Bone. <i>Seminars in Musculoskeletal Radiology</i> , 2020 , 24, 386-401	1.8	4

33	Magnetic resonance imaging (MRI) studies of knee joint under mechanical loading: Review. <i>Magnetic Resonance Imaging</i> , 2020 , 65, 27-36	3-3	20
32	Trabecular bone imaging using a 3D adiabatic inversion recovery prepared ultrashort TE Cones sequence at 3T. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1640-1651	4-4	18
31	Water proton density in human cortical bone obtained from ultrashort echo time (UTE) MRI predicts bone microstructural properties. <i>Magnetic Resonance Imaging</i> , 2020 , 67, 85-89	3-3	6
30	T measurement of bound water in cortical bone using 3D adiabatic inversion recovery ultrashort echo time (3D IR-UTE) Cones imaging. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 634-645	4-4	3
29	Quantitative three-dimensional ultrashort echo time cones imaging of the knee joint with motion correction. <i>NMR in Biomedicine</i> , 2020 , 33, e4214	4-4	9
28	Correlations of cortical bone microstructural and mechanical properties with water proton fractions obtained from ultrashort echo time (UTE) MRI tricomponent T2* model. <i>NMR in Biomedicine</i> , 2020 , 33, e4233	4-4	11
27	Quantitative Ultrashort Echo Time (UTE) Magnetic Resonance Imaging of Bone: An Update. <i>Frontiers in Endocrinology</i> , 2020 , 11, 567417	5-7	10
26	Knee osteochondral junction imaging using a fast 3D T-weighted ultrashort echo time cones sequence at 3T. <i>Magnetic Resonance Imaging</i> , 2020 , 73, 76-83	3-3	1
25	Fast quantitative three-dimensional ultrashort echo time (UTE) Cones magnetic resonance imaging of major tissues in the knee joint using extended spiral sampling. <i>NMR in Biomedicine</i> , 2020 , 33, e4376	4-4	1
24	Rapid single scan ramped hybrid-encoding for bicomponent T2* mapping in a human knee joint: A feasibility study. <i>NMR in Biomedicine</i> , 2020 , 33, e4391	4-4	0
23	An Update in Qualitative Imaging of Bone Using Ultrashort Echo Time Magnetic Resonance. <i>Frontiers in Endocrinology</i> , 2020 , 11, 555756	5-7	5
22	Assessment of mechanical properties of articular cartilage with quantitative three-dimensional ultrashort echo time (UTE) cones magnetic resonance imaging. <i>Journal of Biomechanics</i> , 2020 , 113, 110085	3-9	7
21	To measure T of short T species using an inversion recovery prepared three-dimensional ultrashort echo time (3D IR-UTE) method: A phantom study. <i>Journal of Magnetic Resonance</i> , 2020 , 314, 106725	3	3
20	Volumetric mapping of bound and pore water as well as collagen protons in cortical bone using 3D ultrashort echo time cones MR imaging techniques. <i>Bone</i> , 2019 , 127, 120-128	4-7	19
19	Ultrashort echo time magnetic resonance imaging (UTE-MRI) of cortical bone correlates well with histomorphometric assessment of bone microstructure. <i>Bone</i> , 2019 , 123, 8-17	4-7	27
18	Three-dimensional ultrashort echo time imaging with tricomponent analysis for human cortical bone. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 348-355	4-4	22
17	Ultrashort Echo Time Quantitative Susceptibility Mapping (UTE-QSM) of Highly Concentrated Magnetic Nanoparticles: A Comparison Study about Different Sampling Strategies. <i>Molecules</i> , 2019 , 24,	4-8	8
16	Fat suppression for ultrashort echo time imaging using a single-point Dixon method. <i>NMR in Biomedicine</i> , 2019 , 32, e4069	4-4	15

15	Imaging of the region of the osteochondral junction (OCJ) using a 3D adiabatic inversion recovery prepared ultrashort echo time cones (3D IR-UTE-cones) sequence at 3T. <i>NMR in Biomedicine</i> , 2019 , 32, e4080	4.4	11
14	Assessing cortical bone mechanical properties using collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modeling. <i>Bone Reports</i> , 2019 , 11, 100220	2.6	16
13	Fat suppression for ultrashort echo time imaging using a novel soft-hard composite radiofrequency pulse. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 2178-2187	4.4	10
12	Significant correlations between human cortical bone mineral density and quantitative susceptibility mapping (QSM) obtained with 3D Cones ultrashort echo time magnetic resonance imaging (UTE-MRI). <i>Magnetic Resonance Imaging</i> , 2019 , 62, 104-110	3.3	16
11	Ultrashort Echo Time MRI (UTE-MRI) Quantifications of Cortical Bone Varied Significantly at Body Temperature Compared with Room Temperature 2019 , 23, 202		8
10	Fast quantitative 3D ultrashort echo time MRI of cortical bone using extended cones sampling. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 225-236	4.4	20
9	Age-related decrease in collagen proton fraction in tibial tendons estimated by magnetization transfer modeling of ultrashort echo time magnetic resonance imaging (UTE-MRI). <i>Scientific Reports</i> , 2019 , 9, 17974	4.9	14
8	AcidoCEST-UTE MRI for the Assessment of Extracellular pH of Joint Tissues at 3 T. <i>Investigative Radiology</i> , 2019 , 54, 565-571	10.1	2
7	True phase quantitative susceptibility mapping using continuous single-point imaging: a feasibility study. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1907-1914	4.4	12
6	Collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modelling correlates significantly with cortical bone porosity measured with micro-computed tomography (μ CT). <i>NMR in Biomedicine</i> , 2019 , 32, e4045	4.4	19
5	Detecting stress injury (fatigue fracture) in fibular cortical bone using quantitative ultrashort echo time-magnetization transfer (UTE-MT): An ex vivo study. <i>NMR in Biomedicine</i> , 2018 , 31, e3994	4.4	30
4	Ultrashort echo time T2 values decrease in tendons with application of static tensile loads. <i>Journal of Biomechanics</i> , 2017 , 61, 160-167	2.9	12
3	Three-dimensional adiabatic inversion recovery prepared ultrashort echo time cones (3D IR-UTE-Cones) imaging of cortical bone in the hip. <i>Magnetic Resonance Imaging</i> , 2017 , 44, 60-64	3.3	15
2	Individual pore and interconnection size analysis of macroporous ceramic scaffolds using high-resolution X-ray tomography. <i>Materials Characterization</i> , 2016 , 118, 454-467	3.9	7
1	Novel linear intercept method for characterizing micropores and grains in calcium phosphate bone substitutes. <i>Materials Characterization</i> , 2016 , 119, 216-224	3.9	6