Saeed Jerban

List of Publications by Citations

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	Detecting stress injury (fatigue fracture) in fibular cortical bone using quantitative ultrashort echo time-magnetization transfer (UTE-MT): An ex vivo study. *NMR in Biomedicine*, **2018**, 31, e3994	4.4	30
49	Ultrashort echo time magnetic resonance imaging (UTE-MRI) of cortical bone correlates well with histomorphometric assessment of bone microstructure. *Bone*, **2019**, 123, 8-17	4.7	27
48	Three-dimensional ultrashort echo time imaging with tricomponent analysis for human cortical bone. *Magnetic Resonance in Medicine*, **2019**, 82, 348-355	4.4	22
47	Magnetic resonance imaging (MRI) studies of knee joint under mechanical loading: Review. *Magnetic Resonance Imaging*, **2020**, 65, 27-36	3.3	20
46	Fast quantitative 3D ultrashort echo time MRI of cortical bone using extended cones sampling. *Magnetic Resonance in Medicine*, **2019**, 82, 225-236	4.4	20
45	Volumetric mapping of bound and pore water as well as collagen protons in cortical bone using 3D ultrashort echo time cones MR imaging techniques. *Bone*, **2019**, 127, 120-128	4.7	19
44	Collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modelling correlates significantly with cortical bone porosity measured with micro-computed tomography (□CT). *NMR in Biomedicine*, **2019**, 32, e4045	4.4	19
43	Trabecular bone imaging using a 3D adiabatic inversion recovery prepared ultrashort TE Cones sequence at 3T. *Magnetic Resonance in Medicine*, **2020**, 83, 1640-1651	4.4	18
42	Three-Dimensional Zero Echo Time Magnetic Resonance Imaging Versus 3-Dimensional Computed Tomography for Glenoid Bone Assessment. *Arthroscopy - Journal of Arthroscopic and Related Surgery*, **2020**, 36, 2391-2400	5.4	16
41	Assessing cortical bone mechanical properties using collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modeling. *Bone Reports*, **2019**, 11, 100220	2.6	16
40	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). *Magnetic Resonance Imaging*, **2019**, 62, 104-110	3.3	16
39	Fat suppression for ultrashort echo time imaging using a single-point Dixon method. *NMR in Biomedicine*, **2019**, 32, e4069	4.4	15
38	Three-dimensional adiabatic inversion recovery prepared ultrashort echo time cones (3D IR-UTE-Cones) imaging of cortical bone in the hip. *Magnetic Resonance Imaging*, **2017**, 44, 60-64	3.3	15
37	Age-related decrease in collagen proton fraction in tibial tendons estimated by magnetization transfer modeling of ultrashort echo time magnetic resonance imaging (UTE-MRI). *Scientific Reports* , **2019**, 9, 17974	4.9	14
36	Ultrashort echo time T2 values decrease in tendons with application of static tensile loads. *Journal of Biomechanics*, **2017**, 61, 160-167	2.9	12
35	True phase quantitative susceptibility mapping using continuous single-point imaging: a feasibility study. *Magnetic Resonance in Medicine*, **2019**, 81, 1907-1914	4.4	12
34	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 3□T. *NMR in Biomedicine*, **2019**, 32, e4080	4.4	11

33	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. *Magnetic Resonance in Medicine*, **2020**, 84, 2551-2560	4.4	11
32	Correlations of cortical bone microstructural and mechanical properties with water proton fractions obtained from ultrashort echo time (UTE) MRI tricomponent T2* model. *NMR in Biomedicine*, **2020**, 33, e4233	4.4	11
31	Fat suppression for ultrashort echo time imaging using a novel soft-hard composite radiofrequency pulse. *Magnetic Resonance in Medicine*, **2019**, 82, 2178-2187	4.4	10
30	Quantitative Ultrashort Echo Time (UTE) Magnetic Resonance Imaging of Bone: An Update. *Frontiers in Endocrinology*, **2020**, 11, 567417	5.7	10
29	Quantitative three-dimensional ultrashort echo time cones imaging of the knee joint with motion correction. *NMR in Biomedicine*, **2020**, 33, e4214	4.4	9
28	Ultrashort Echo Time Quantitative Susceptibility Mapping (UTE-QSM) of Highly Concentrated Magnetic Nanoparticles: A Comparison Study about Different Sampling Strategies. *Molecules*, **2019**, 24,	4.8	8
27	Ultrashort Echo Time MRI (UTE-MRI) Quantifications of Cortical Bone Varied Significantly at Body Temperature Compared with Room Temperature **2019**, 23, 202		8
26	Individual pore and interconnection size analysis of macroporous ceramic scaffolds using high-resolution X-ray tomography. *Materials Characterization*, **2016**, 118, 454-467	3.9	7
25	Assessment of mechanical properties of articular cartilage with quantitative three-dimensional ultrashort echo time (UTE) cones magnetic resonance imaging. *Journal of Biomechanics*, **2020**, 113, 110085	2.9	7
24	Magic angle effect on adiabatic T imaging of the Achilles tendon using 3D ultrashort echo time cones trajectory. *NMR in Biomedicine*, **2020**, 33, e4322	4.4	6
23	Rotator Cuff Tendon Assessment in Symptomatic and Control Groups Using Quantitative MRI. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 864-872	5.6	6
22	Water proton density in human cortical bone obtained from ultrashort echo time (UTE) MRI predicts bone microstructural properties. *Magnetic Resonance Imaging*, **2020**, 67, 85-89	3.3	6
21	Novel linear intercept method for characterizing micropores and grains in calcium phosphate bone substitutes. *Materials Characterization*, **2016**, 119, 216-224	3.9	6
20	Inversion recovery zero echo time (IR-ZTE) imaging for direct myelin detection in human brain: a feasibility study. *Quantitative Imaging in Medicine and Surgery*, **2020**, 10, 895-906	3.6	5
19	An Update in Qualitative Imaging of Bone Using Ultrashort Echo Time Magnetic Resonance. *Frontiers in Endocrinology*, **2020**, 11, 555756	5.7	5
18	Quantitative Magnetic Resonance Imaging of Cortical and Trabecular Bone. *Seminars in Musculoskeletal Radiology*, **2020**, 24, 386-401	1.8	4
17	T measurement of bound water in cortical bone using 3D adiabatic inversion recovery ultrashort echo time (3D IR-UTE) Cones imaging. *Magnetic Resonance in Medicine*, **2020**, 84, 634-645	4.4	3
16	To measure T of short T species using an inversion recovery prepared three-dimensional ultrashort echo time (3D IR-UTE) method: A phantom study. *Journal of Magnetic Resonance*, **2020**, 314, 106725	3	3

15	Correlation between the elastic modulus of anterior cruciate ligament (ACL) and quantitative ultrashort echo time (UTE) magnetic resonance imaging.. *Journal of Orthopaedic Research*, **2022**,	3.8	2
14	Ultrashort echo time Cones double echo steady state (UTE-Cones-DESS) for rapid morphological imaging of short T tissues. *Magnetic Resonance in Medicine*, **2021**, 86, 881-892	4.4	2
13	AcidoCEST-UTE MRI for the Assessment of Extracellular pH of Joint Tissues at 3 T. *Investigative Radiology*, **2019**, 54, 565-571	10.1	2
12	Knee osteochondral junction imaging using a fast 3D T-weighted ultrashort echo time cones sequence at 3T. *Magnetic Resonance Imaging*, **2020**, 73, 76-83	3.3	1
11	Fast quantitative three-dimensional ultrashort echo time (UTE) Cones magnetic resonance imaging of major tissues in the knee joint using extended sprial sampling. *NMR in Biomedicine*, **2020**, 33, e4376	4.4	1
10	Quantitative 3D Ultrashort Echo Time Magnetization Transfer Imaging for Evaluation of Knee Cartilage Degeneration In Vivo. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 1294-1302	5.6	1
9	High-contrast osteochondral junction imaging using a 3D dual adiabatic inversion recovery-prepared ultrashort echo time cones sequence. *NMR in Biomedicine*, **2021**, 34, e4559	4.4	1
8	AcidoCEST-UTE MRI Reveals an Acidic Microenvironment in Knee Osteoarthritis.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	1
7	Lower Macromolecular Content in Tendons of Female Patients with Osteoporosis versus Patients with Osteopenia Detected by Ultrashort Echo Time (UTE) MRI. *Diagnostics*, **2022**, 12, 1061	3.8	1
6	Detecting Articular Cartilage and Meniscus Deformation Effects Using Magnetization Transfer Ultrashort Echo Time (MT-UTE) Modeling during Mechanical Load Application: Feasibility Study. *Cartilage*, **2020**, 1947603520976771	3	0
5	MRI-based mechanical competence assessment of bone using micro finite element analysis (micro-FEA): Review.. *Magnetic Resonance Imaging*, **2022**, 88, 9-9	3.3	0
4	Rapid single scan ramped hybrid-encoding for bicomponent T2* mapping in a human knee joint: A feasibility study. *NMR in Biomedicine*, **2020**, 33, e4391	4.4	0
3	Ultrashort echo time adiabatic T (UTE-Adiab-T) is sensitive to human cadaveric knee joint deformation induced by mechanical loading and unloading. *Magnetic Resonance Imaging*, **2021**, 80, 98-105	3.3	0
2	3D UTE bicomponent imaging of cortical bone using a soft-hard composite pulse for excitation. *Magnetic Resonance in Medicine*, **2021**, 85, 1581-1589	4.4	0
1	Quantitative assessment of articular cartilage degeneration using 3D ultrashort echo time cones adiabatic T (3D UTE-Cones-AdiabT) imaging.. *European Radiology*, **2022**, 1	8	0