Jiang Du

List of Publications by Year in descending order

193 papers	5,862 citations	71061 41 h-index	114418 63 g-index
196 all docs	196 docs citations	196 times ranked	2750 citing authors

#	Article	IF	Citations
1	Comprehensive assessment of in vivo lumbar spine intervertebral discs using a 3D adiabatic T1Ï•prepared ultrashort echo time (UTE-Adiab-T1Ï) pulse sequence. Quantitative Imaging in Medicine and Surgery, 2022, 12, 269-280.	1.1	7
2	Optimizing Diffusion-weighted MRI of Peripheral Nerves. Radiology, 2022, 302, 162-163.	3.6	1
3	Evaluation of cartilage degeneration using multiparametric quantitative ultrashort echo time-based MRI: an ex vivo study. Quantitative Imaging in Medicine and Surgery, 2022, 12, 1738-1749.	1.1	3
4	Correlation between the elastic modulus of anterior cruciate ligament (ACL) and quantitative ultrashort echo time (UTE) magnetic resonance imaging. Journal of Orthopaedic Research, 2022, 40, 2330-2339.	1.2	10
5	MRI-based mechanical competence assessment of bone using micro finite element analysis (micro-FEA): Review. Magnetic Resonance Imaging, 2022, 88, 9-19.	1.0	5
6	Quantitative assessment of articular cartilage degeneration using 3D ultrashort echo time cones adiabatic T1Ï•(3D UTE-Cones-AdiabT1Ï) imaging. European Radiology, 2022, 32, 6178-6186.	2.3	5
7	Evaluation of enzymatic proteoglycan loss and collagen degradation in human articular cartilage using ultrashort echo timeâ€based biomarkers: A feasibility study. NMR in Biomedicine, 2022, 35, e4664.	1.6	4
8	The Resistance Force of the Anterior Cruciate Ligament during Pull Probing Is Related to the Mechanical Property. Bioengineering, 2022, 9, 4.	1.6	1
9	Ultrashort Echo Time Magnetic Resonance Imaging Techniques: Met and Unmet Needs in Musculoskeletal Imaging. Journal of Magnetic Resonance Imaging, 2022, 55, 1597-1612.	1.9	30
10	AcidoCEST-UTE MRI Reveals an Acidic Microenvironment in Knee Osteoarthritis. International Journal of Molecular Sciences, 2022, 23, 4466.	1.8	13
11	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.	1.3	5
12	Detection of gadolinium deposition in cortical bone with ultrashort echo time T1 mapping: an ex vivo study in a rabbit model. European Radiology, 2021, 31, 1569-1577.	2.3	1
13	A Useful Combination of Quantitative Ultrashort Echo Time MR Imaging and a Probing Device for Biomechanical Evaluation of Articular Cartilage. Biosensors, 2021, 11, 52.	2.3	7
14	Brain ultrashort T2 component imaging using a short TR adiabatic inversion recovery prepared dual-echo ultrashort TE sequence with complex echo subtraction (STAIR-dUTE-ES). Journal of Magnetic Resonance, 2021, 323, 106898.	1.2	10
15	Automated cartilage segmentation and quantification using 3D ultrashort echo time (UTE) cones MR imaging with deep convolutional neural networks. European Radiology, 2021, 31, 7653-7663.	2.3	14
16	Ultrashort echo time Cones double echo steady state (UTEâ€Conesâ€DESS) for rapid morphological imaging of short T₂ tissues. Magnetic Resonance in Medicine, 2021, 86, 881-892.	1.9	12
17	Quantitative <scp>3D</scp> Ultrashort Echo Time Magnetization Transfer Imaging for Evaluation of Knee Cartilage Degeneration In Vivo. Journal of Magnetic Resonance Imaging, 2021, 54, 1294-1302.	1.9	12
18	Quantitative magnetic resonance imaging of meniscal pathology ex vivo. Skeletal Radiology, 2021, 50, 2405-2414.	1.2	4

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19	Editorial for â€œChange in Susceptibility Values in Knee Cartilage After Marathon Running Measured Using Quantitative Susceptibility Mappingâ€. Journal of Magnetic Resonance Imaging, 2021, 54, 1594-1595.	1.9	0
20	Editorial for â€œAssociation Between <scp>T2</scp>* Relaxation Times Derived from Ultrashort Echo Time <scp>MRI</scp> and Symptoms During Exercise Therapy for Patellar Tendinopathy: A Large Prospective Studyâ€. Journal of Magnetic Resonance Imaging, 2021, 54, 1606-1607.	1.9	0
21	Brain Atrophy Is a Better Biomarker than Susceptibility for Evaluating Clinical Severity in Wilson Disease. Radiology, 2021, 299, 673-674.	3.6	3
22	Ultrashort echo time adiabatic T1Ï•(UTE-Adiab-T1Ï•) is sensitive to human cadaveric knee joint deformation induced by mechanical loading and unloading. Magnetic Resonance Imaging, 2021, 80, 98-105.	1.0	5
23	High contrast cartilaginous endplate imaging using a 3D adiabatic inversionâ€recoveryâ€prepared fatâ€saturated ultrashort echo time (3D IRâ€FSâ€UTE) sequence. NMR in Biomedicine, 2021, 34, e4579.	1.6	6
24	MRI chemical shift artifact produced by center-out radial sampling of k-space: a potential pitfall in clinical diagnosis. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3677-3683.	1.1	15
25	Feasibility of an Inversion Recovery-Prepared Fat-Saturated Zero Echo Time Sequence for High Contrast Imaging of the Osteochondral Junction. Frontiers in Endocrinology, 2021, 12, 777080.	1.5	6
26	Incorporating prior knowledge via volumetric deep residual network to optimize the reconstruction of sparsely sampled MRI. Magnetic Resonance Imaging, 2020, 66, 93-103.	1.0	29
27	Inversion recovery UTE based volumetric myelin imaging in human brain using interleaved hybrid encoding. Magnetic Resonance in Medicine, 2020, 83, 950-961.	1.9	15
28	Magnetic resonance imaging (MRI) studies of knee joint under mechanical loading: Review. Magnetic Resonance Imaging, 2020, 65, 27-36.	1.0	34
29	Trabecular bone imaging using a 3D adiabatic inversion recovery prepared ultrashort TE Cones sequence at 3T. Magnetic Resonance in Medicine, 2020, 83, 1640-1651.	1.9	38
30	Knee menisci segmentation and relaxometry of 3D ultrashort echo time cones MR imaging using attention Uâ€Net with transfer learning. Magnetic Resonance in Medicine, 2020, 83, 1109-1122.	1.9	51
31	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.	1.0	15
32	T₁ measurement of bound water in cortical bone using 3D adiabatic inversion recovery ultrashort echo time (3D IRâ€UTE) Cones imaging. Magnetic Resonance in Medicine, 2020, 84, 634-645.	1.9	9
33	Assessing the Performance of Morphologic and Echogenic Features in Median Nerve Ultrasound for Carpal Tunnel Syndrome Diagnosis. Journal of Ultrasound in Medicine, 2020, 39, 1165-1174.	0.8	10
34	Quantitative threeâ€dimensional ultrashort echo time cones imaging of the knee joint with motion correction. NMR in Biomedicine, 2020, 33, e4214.	1.6	17
35	Whole-Brain Myelin Imaging Using 3D Double-Echo Sliding Inversion Recovery Ultrashort Echo Time (DESIRE UTE) MRI. Radiology, 2020, 294, 362-374.	3.6	45
36	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.	1.6	33

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37	Improved volumetric myelin imaging in human brain using 3D dual echo inversion recoveryâ€prepared UTE with complex echo subtraction. Magnetic Resonance in Medicine, 2020, 83, 1168-1177.	1.9	11
38	Quantitative Ultrashort Echo Time (UTE) Magnetic Resonance Imaging of Bone: An Update. Frontiers in Endocrinology, 2020, 11, 567417.	1.5	31
39	New options for increasing the sensitivity, specificity and scope of synergistic contrast magnetic resonance imaging (scMRI) using Multiplied, Added, Subtracted and/or FiTted (MASTIR) pulse sequences. Quantitative Imaging in Medicine and Surgery, 2020, 10, 2030-2065.	1.1	5
40	Accelerating quantitative MR imaging with the incorporation of B1 compensation using deep learning. Magnetic Resonance Imaging, 2020, 72, 78-86.	1.0	15
41	Fast quantitative threeâ€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.	1.6	5
42	Ultrashort echo time quantitative susceptibility mapping (UTEâ€QSM) for detection of hemosiderin deposition in hemophilic arthropathy: A feasibility study. Magnetic Resonance in Medicine, 2020, 84, 3246-3255.	1.9	20
43	Rapid single scan ramped hybridâ€encoding for bicomponent T2* mapping in a human knee joint: A feasibility study. NMR in Biomedicine, 2020, 33, e4391.	1.6	7
44	Volumetric imaging of myelin in vivo using 3D inversion recoveryâ€prepared ultrashort echo time cones magnetic resonance imaging. NMR in Biomedicine, 2020, 33, e4326.	1.6	15
45	Myelin Imaging in Human Brain Using a Short Repetition Time Adiabatic Inversion Recovery Prepared Ultrashort Echo Time (STAIR-UTE) MRI Sequence in Multiple Sclerosis. Radiology, 2020, 297, 392-404.	3.6	35
46	An Update in Qualitative Imaging of Bone Using Ultrashort Echo Time Magnetic Resonance. Frontiers in Endocrinology, 2020, 11, 555756.	1.5	19
47	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.	0.9	14
48	Detecting Articular Cartilage and Meniscus Deformation Effects Using Magnetization Transfer Ultrashort Echo Time (MT-UTE) Modeling during Mechanical Load Application: Ex Vivo Feasibility Study. Cartilage, 2020, , 194760352097677.	1.4	8
49	Convincing evidence for magic angle lessâ€sensitive quantitative T<sub>1Ï<sub>Â(3D UTE) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.9	30
50	Magic angle effect on adiabatic T<sub>1Ï<sub> imaging of the Achilles tendon using 3D ultrashort echo time cones trajectory. NMR in Biomedicine, 2020, 33, e4322.	1.6	18
51	Pulse sequences as tissue property filters (TP-filters): a way of understanding the signal, contrast and weighting of magnetic resonance images. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1080-1120.	1.1	11
52	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.	1.3	39
53	Use of Multiplied, Added, Subtracted and/or FiTted Inversion Recovery (MASTIR) pulse sequences. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1334-1369.	1.1	7
54	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.	1.1	14

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55	Pectoralis major tendon and enthesis: anatomic, magnetic resonance imaging, ultrasonographic, and histologicÂinvestigation. Journal of Shoulder and Elbow Surgery, 2020, 29, 1590-1598.	1.2	6
56	Rotator Cuff Tendon Assessment in Symptomatic and Control Groups Using Quantitative MRI. Journal of Magnetic Resonance Imaging, 2020, 52, 864-872.	1.9	12
57	Ultrashort echo time (UTE) magnetic resonance imaging of myelin: technical developments and challenges. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1186-1203.	1.1	16
58	Quantitative ultrashort echo time magnetization transfer (UTE-MT) for diagnosis of early cartilage degeneration: comparison with UTE-T2* and T2 mapping. Quantitative Imaging in Medicine and Surgery, 2020, 10, 171-183.	1.1	16
59	To measure T1 of short T2 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.	1.2	9
60	Quantitative Magnetic Resonance Imaging of Cortical and Trabecular Bone. Seminars in Musculoskeletal Radiology, 2020, 24, 386-401.	0.4	9
61	Magnetic resonance imaging of the shoulder. Polish Journal of Radiology, 2020, 85, 420-439.	0.5	17
62	Collagen proton fraction from ultrashort echo time magnetization transfer (UTEâ€MT) MRI modelling correlates significantly with cortical bone porosity measured with microâ€computed tomography (ì¼CT). NMR in Biomedicine, 2019, 32, e4045.	1.6	34
63	Assessing cortical bone mechanical properties using collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modeling. Bone Reports, 2019, 11, 100220.	0.2	32
64	Fat suppression for ultrashort echo time imaging using a novel softâ€hard composite radiofrequency pulse. Magnetic Resonance in Medicine, 2019, 82, 2178-2187.	1.9	24
65	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.	1.0	34
66	Evaluation of cortical bone perfusion using dynamic contrast enhanced ultrashort echo time imaging: a feasibility study. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1383-1393.	1.1	8
67	Assessment of an in vitro model of rotator cuff degeneration using quantitative magnetic resonance and ultrasound imaging with biochemical and histological correlation. European Journal of Radiology, 2019, 121, 108706.	1.2	8
68	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.	1.4	36
69	Advanced magnetic resonance imaging of cartilage components in haemophilic joints reveals that cartilage hemosiderin correlates with joint deterioration. Haemophilia, 2019, 25, 851-858.	1.0	20
70	Quantitative MRI Musculoskeletal Techniques: An Update. American Journal of Roentgenology, 2019, 213, 524-533.	1.0	39
71	Quantitative Ultrasound and B-Mode Image Texture Features Correlate with Collagen and Myelin Content in Human Ulnar Nerve Fascicles. Ultrasound in Medicine and Biology, 2019, 45, 1830-1840.	0.7	14
72	Ultrashort echo time magnetic resonance imaging (UTE-MRI) of cortical bone correlates well with histomorphometric assessment of bone microstructure. Bone, 2019, 123, 8-17.	1.4	44

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73	Single- and Bicomponent Analyses of T2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mo>âŽ</mml:mo></mml:mrow></mml:math> Relaxation in Knee Tendon and Ligament by Using 3D Ultrashort Echo Time Cones (UTE Cones) Magnetic Resonance Imaging. BioMed Research International, 2019, 2019, 1-9.	0.9	14
74	Threeâ€dimensional ultrashort echo time imaging with tricomponent analysis for human cortical bone. Magnetic Resonance in Medicine, 2019, 82, 348-355.	1.9	42
75	Ultrashort Echo Time Quantitative Susceptibility Mapping (UTE-QSM) of Highly Concentrated Magnetic Nanoparticles: A Comparison Study about Different Sampling Strategies. Molecules, 2019, 24, 1143.	1.7	19
76	Self-attention convolutional neural network for improved MR image reconstruction. Information Sciences, 2019, 490, 317-328.	4.0	65
77	Multimodal imaging assessment and histologic correlation of the female rat pelvic floor musclesâ€™ anatomy. Journal of Anatomy, 2019, 234, 543-550.	0.9	2
78	Fat suppression for ultrashort echo time imaging using a singleâ€point Dixon method. NMR in Biomedicine, 2019, 32, e4069.	1.6	32
79	Imaging of the region of the osteochondral junction (OCJ) using a 3D adiabatic inversion recovery prepared ultrashort echo time cones (3D IRâ€UTEâ€cones) sequence at 3ÂT. NMR in Biomedicine, 2019, 32, e4080.	1.6	27
80	Fast quantitative 3D ultrashort echo time MRI of cortical bone using extended cones sampling. Magnetic Resonance in Medicine, 2019, 82, 225-236.	1.9	34
81	In vivo assessment of extracellular pH of joint tissues using acidoCEST-UTE MRI. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1664-1673.	1.1	20
82	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.	1.6	27
83	AcidoCEST-UTE MRI for the Assessment of Extracellular pH of Joint Tissues at 3 T. Investigative Radiology, 2019, 54, 565-571.	3.5	8
84	MR Arthrogram Features That Can Be Used to Distinguish Between True Inferior Glenohumeral Ligament Complex Tears and Iatrogenic Extravasation. American Journal of Roentgenology, 2019, 212, 411-417.	1.0	13
85	Whole knee joint T₁ values measured in vivo at 3T by combined 3D ultrashort echo time cones actual flip angle and variable flip angle methods. Magnetic Resonance in Medicine, 2019, 81, 1634-1644.	1.9	52
86	Evaluation of normal cadaveric Achilles tendon and enthesis with ultrashort echo time (UTE) magnetic resonance imaging and indentation testing. NMR in Biomedicine, 2019, 32, e4034.	1.6	25
87	True phase quantitative susceptibility mapping using continuous singleâ€point imaging: a feasibility study. Magnetic Resonance in Medicine, 2019, 81, 1907-1914.	1.9	24
88	Ultrashort Echo Time MRI (UTE-MRI) Quantifications of Cortical Bone Varied Significantly at Body Temperature Compared with Room Temperature. Investigative Magnetic Resonance Imaging, 2019, 23, 202.	0.2	11
89	3D adiabatic T_{1Ï} prepared ultrashort echo time cones sequence for whole knee imaging. Magnetic Resonance in Medicine, 2018, 80, 1429-1439.	1.9	55
90	Feasibility of using an inversion-recovery ultrashort echo time (UTE) sequence for quantification of glenoid bone loss. Skeletal Radiology, 2018, 47, 973-980.	1.2	24

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91	Advanced Hemophilic Arthropathy: Sensitivity of Soft Tissue Discrimination With Musculoskeletal Ultrasound. Journal of Ultrasound in Medicine, 2018, 37, 1945-1956.	0.8	21
92	Yet more evidence that myelin protons can be directly imaged with UTE sequences on a clinical 3<scp>T</scp> scanner: Bicomponent analysis of native and deuterated ovine brain specimens. Magnetic Resonance in Medicine, 2018, 80, 538-547.	1.9	27
93	Accurate T₁ mapping of short T₂ tissues using a threeâ€dimensional ultrashort echo time cones actual flip angle imagingâ€variable repetition time (3D UTEâ€Cones AFIâ€VTR) method. Magnetic Resonance in Medicine, 2018, 80, 598-608.	1.9	69
94	Three-dimensional ultrashort echo time cones (3D UTE-Cones) magnetic resonance imaging of entheses and tendons. Magnetic Resonance Imaging, 2018, 49, 4-9.	1.0	33
95	Simultaneous quantitative susceptibility mapping (QSM) and for high iron concentration quantification with 3D ultrashort echo time sequences: An echo dependence study. Magnetic Resonance in Medicine, 2018, 79, 2315-2322.	1.9	26
96	Theoretical analysis and optimization of ultrashort echo time (UTE) imaging contrast with off-resonance saturation. Magnetic Resonance Imaging, 2018, 50, 12-16.	1.0	9
97	Quantitative magnetization transfer ultrashort echo time imaging using a timeâ€efficient 3D multispoke Cones sequence. Magnetic Resonance in Medicine, 2018, 79, 692-700.	1.9	68
98	Bone quantitative susceptibility mapping using a chemical speciesâ€“specific signal model with ultrashort and conventional echo data. Magnetic Resonance in Medicine, 2018, 79, 121-128.	1.9	58
99	Short T₂ imaging using a 3D double adiabatic inversion recovery prepared ultrashort echo time cones (3D DIRâ€UTEâ€Cones) sequence. Magnetic Resonance in Medicine, 2018, 79, 2555-2563.	1.9	55
100	Rotator cuff tendon assessment using magicâ€angle insensitive 3D ultrashort echo time cones magnetization transfer (UTEâ€Conesâ€MT) imaging and modeling with histological correlation. Journal of Magnetic Resonance Imaging, 2018, 48, 160-168.	1.9	38
101	Quantitative twoâ€dimensional ultrashort echo time magnetization transfer (2D UTEâ€MT) imaging of cortical bone. Magnetic Resonance in Medicine, 2018, 79, 1941-1949.	1.9	34
102	Detecting stress injury (fatigue fracture) in fibular cortical bone using quantitative ultrashort echo timeâ€magnetization transfer (UTEâ€MT): An ex vivo study. NMR in Biomedicine, 2018, 31, e3994.	1.6	39
103	Feasibility of quantitative ultrashort echo time (UTE)â€based methods for MRI of peripheral nerve. NMR in Biomedicine, 2018, 31, e3948.	1.6	4
104	Nonoperative Management of a Severe Proximal Rectus Femoris Musculotendinous Injury in a Recreational Athlete: A Case Report. PM and R, 2018, 10, 1417-1421.	0.9	7
105	Measurement of bound and pore water T₁ relaxation times in cortical bone using three-dimensional ultrashort echo time cones sequences. Magnetic Resonance in Medicine, 2017, 77, 2136-2145.	1.9	40
106	Direct magnitude and phase imaging of myelin using ultrashort echo time (UTE) pulse sequences: A feasibility study. Magnetic Resonance Imaging, 2017, 39, 194-199.	1.0	12
107	Susceptibility-Based Neuroimaging: Standard Methods, Clinical Applications, and Future Directions. Current Radiology Reports, 2017, 5, 1.	0.4	6
108	Effects of fat saturation on short T2 quantification. Magnetic Resonance Imaging, 2017, 43, 6-9.	1.0	10

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109	Threeâ€dimensional ultrashort echo time cones T_{1Ï‹} (3D) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (UTE	1.6	37
110	Inversion recovery ultrashort echo time magnetic resonance imaging: A method for simultaneous direct detection of myelin and high signal demonstration of iron deposition in the brain â€“ A feasibility study. Magnetic Resonance Imaging, 2017, 38, 87-94.	1.0	16
111	Inversion recovery ultrashort echo time imaging of ultrashort T₂ tissue components in ovine brain at 3ÂT: a sequential D₂O exchange study. NMR in Biomedicine, 2017, 30, e3767.	1.6	19
112	Ultrashort echo time T2 âˆ— values decrease in tendons with application of static tensile loads. Journal of Biomechanics, 2017, 61, 160-167.	0.9	15
113	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.	1.0	19
114	Imaging and quantification of ironâ€oxide nanoparticles (IONP) using MPâ€RAGE and UTE based sequences. Magnetic Resonance in Medicine, 2017, 78, 226-232.	1.9	17
115	Magnetic resonance imaging of myelin using ultrashort Echo time (UTE) pulse sequences: Phantom, specimen, volunteer and multiple sclerosis patient studies. NeuroImage, 2016, 136, 37-44.	2.1	64
116	Fast volumetric imaging of bound and pore water in cortical bone using threeâ€dimensional ultrashortâ€TE (UTE) and inversion recovery UTE sequences. NMR in Biomedicine, 2016, 29, 1373-1380.	1.6	33
117	Ultrashort echo time magnetization transfer (UTEâ€MT) imaging and modeling: magic angle independent biomarkers of tissue properties. NMR in Biomedicine, 2016, 29, 1546-1552.	1.6	63
118	MR Parametric Mapping as a Biomarker of Early Joint Degeneration. Sports Health, 2016, 8, 405-411.	1.3	19
119	Thickness of the Meniscal Lamellar Layer: Correlation with Indentation Stiffness and Comparison of Normal and Abnormally Thick Layers by Using Multiparametric Ultrashort Echo Time MR Imaging. Radiology, 2016, 280, 161-168.	3.6	13
120	UTE imaging with simultaneous water and fat signal suppression using a time-efficient multispoke inversion recovery pulse sequence. Magnetic Resonance in Medicine, 2016, 76, 577-582.	1.9	91
121	Can ultrashort-TE (UTE) MRI sequences on a 3-T clinical scanner detect signal directly from collagen protons: freeze-dry and D₂O exchange studies of cortical bone and Achilles tendon specimens. NMR in Biomedicine, 2016, 29, 912-917.	1.6	28
122	High-resolution morphologic and ultrashort time-to-echo quantitative magnetic resonance imaging of the temporomandibular joint. Skeletal Radiology, 2016, 45, 383-391.	1.2	9
123	MR morphology of triangular fibrocartilage complex: correlation with quantitative MR and biomechanical properties. Skeletal Radiology, 2016, 45, 447-454.	1.2	13
124	Effects of inversion time on inversion recovery prepared ultrashort echo time (IRâ€UTE) imaging of bound and pore water in cortical bone. NMR in Biomedicine, 2015, 28, 70-78.	1.6	35
125	Qualitative and Quantitative Ultrashort Echo Time Imaging of Musculoskeletal Tissues. Seminars in Musculoskeletal Radiology, 2015, 19, 375-386.	0.4	23
126	Ultrashort echo time magnetization transfer (UTEâ€MT) imaging of cortical bone. NMR in Biomedicine, 2015, 28, 873-880.	1.6	45

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127	Offâ€resonance saturation ratio obtained with ultrashort echo timeâ€magnetization transfer techniques is sensitive to changes in static tensile loading of tendons and degeneration. Journal of Magnetic Resonance Imaging, 2015, 42, 1064-1071.	1.9	4
128	Evaluation of bound and pore water in cortical bone using ultrashort-TE MRI. NMR in Biomedicine, 2015, 28, 1754-1762.	1.6	38
129	Ultrashort Echo Time T1Ï•Is Sensitive to Enzymatic Degeneration of Human Menisci. Journal of Computer Assisted Tomography, 2015, 39, 637-642.	0.5	5
130	High-Resolution Qualitative and Quantitative Magnetic Resonance Evaluation of the Glenoid Labrum. Journal of Computer Assisted Tomography, 2015, 39, 936-944.	0.5	5
131	Single- and Bi-component T2* analysis of tendon before and during tensile loading, using UTE sequences. Journal of Magnetic Resonance Imaging, 2015, 42, 114-120.	1.9	32
132	UTE imaging in the musculoskeletal system. Journal of Magnetic Resonance Imaging, 2015, 41, 870-883.	1.9	197
133	Quantitative bi-component T2* analysis of histologically normal Achilles tendons. Muscles, Ligaments and Tendons Journal, 2015, 5, 58-62.	0.1	13
134	Ultrashort echo time biâ€component analysis of cortical boneâ€"a field dependence study. Magnetic Resonance in Medicine, 2014, 71, 1075-1081.	1.9	16
135	Effects of achilles tendon immersion in saline and perfluorochemicals on T2 and T2*. Journal of Magnetic Resonance Imaging, 2014, 40, 496-500.	1.9	27
136	The effect of excitation and preparation pulses on nonslice selective 2D UTE bicomponent analysis of bound and free water in cortical bone at 3T. Medical Physics, 2014, 41, 022306.	1.6	6
137	Development of a Comprehensive Osteochondral Allograft MRI Scoring System (OCAMRISS) With Histopathologic, Microâ€"Computed Tomography, and Biomechanical Validation. Cartilage, 2014, 5, 16-27.	1.4	43
138	Effects of repetitive freezeâ€"thawing cycles on T2 and T2* of the Achilles tendon. European Journal of Radiology, 2014, 83, 349-353.	1.2	26
139	Magnetic resonance imaging assessed cortical porosity is highly correlated with Î¼CT porosity. Bone, 2014, 66, 56-61.	1.4	26
140	Quantitative 3D ultrashort time-to-echo (UTE) MRI and micro-CT (Î¼CT) evaluation of the temporomandibular joint (TMJ) condylar morphology. Skeletal Radiology, 2014, 43, 19-25.	1.2	27
141	Maximizing MR signal for 2D UTE slice selection in the presence of rapid transverse relaxation. Magnetic Resonance Imaging, 2014, 32, 1006-1011.	1.0	2
142	Signal and contrast effects due to T2 decay during k-space readout of UTE (ultrashort TE) sequences. Magnetic Resonance Imaging, 2014, 32, 259-269.	1.0	2
143	Bone cell-independent benefits of raloxifene on the skeleton: A novel mechanism for improving bone material properties. Bone, 2014, 61, 191-200.	1.4	72
144	Ultrashort echo time (UTE) magnetic resonance imaging of the short T2 components in white matter of the brain using a clinical 3T scanner. NeuroImage, 2014, 87, 32-41.	2.1	88

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145	Measurement of T1 of the Ultrashort T2* Components in White Matter of the Brain at 3T. PLoS ONE, 2014, 9, e103296.	1.1	43
146	MR imaging near metal with undersampled 3D radial UTEâ€MAVRIC sequences. Magnetic Resonance in Medicine, 2013, 69, 27-36.	1.9	40
147	Ultrashort TE T₁Ïmagic angle imaging. Magnetic Resonance in Medicine, 2013, 69, 682-687.	1.9	26
148	Magnetic resonance ultrashort echo time spin-echo imaging of the deepest layers of articular cartilage. Science China Life Sciences, 2013, 56, 672-674.	2.3	3
149	Qualitative and quantitative ultrashortâ€TE MRI of cortical bone. NMR in Biomedicine, 2013, 26, 489-506.	1.6	125
150	Assessment of cortical bone with clinical and ultrashort echo time sequences. Magnetic Resonance in Medicine, 2013, 70, 697-704.	1.9	66
151	Mineralization in calcified plaque is like that of cortical boneâ€”Further evidence from ultrashort echo time (UTE) magnetic resonance imaging of carotid plaque calcification and cortical bone. Medical Physics, 2013, 40, 102301.	1.6	10
152	Morphology of the Cartilaginous Endplates in Human Intervertebral Disks with Ultrashort Echo Time MR Imaging. Radiology, 2013, 266, 564-574.	3.6	55
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154	Meniscal Calcifications: Morphologic and Quantitative Evaluation by using 2D Inversion-Recovery Ultrashort Echo Time and 3D Ultrashort Echo Time 3.0-T MR Imaging Techniquesâ€”Feasibility Study. Radiology, 2012, 264, 260-268.	3.6	29
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