

Ravinder R Regatte

List of Publications by Year in descending order

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156
papers

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94433

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159
all docs

159
docs citations

159
times ranked

3872
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of glycosaminoglycan concentration <i>in vivo</i> by chemical exchange-dependent saturation transfer (gagCEST). Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2266-2270.	7.1	511
2	T1 ρ -relaxation mapping in human osteoarthritis (OA) cartilage: Comparison of T1 ρ with T2. Journal of Magnetic Resonance Imaging, 2006, 23, 547-553.	3.4	296
3	Biomedical applications of sodium MRI <i>in vivo</i> . Journal of Magnetic Resonance Imaging, 2013, 38, 511-529.	3.4	198
4	Sodium MRI: Methods and applications. Progress in Nuclear Magnetic Resonance Spectroscopy, 2014, 79, 14-47.	7.5	176
5	Proteoglycan Loss in Human Knee Cartilage: Quantitation with Sodium MR Imaging—Feasibility Study. Radiology, 2004, 231, 900-905.	7.3	168
6	Ultra-high-field MRI of the musculoskeletal system at 7.0T. Journal of Magnetic Resonance Imaging, 2007, 25, 262-269.	3.4	136
7	Reduction of residual dipolar interaction in cartilage by spin-lock technique. Magnetic Resonance in Medicine, 2004, 52, 1103-1109.	3.0	126
8	Quantitative magnetic resonance imaging evidence of synovial proliferation is associated with radiographic severity of knee osteoarthritis. Arthritis and Rheumatism, 2011, 63, 2983-2991.	6.7	114
9	Rapid isotropic 3D sodium MRI of the knee joint <i>in vivo</i> at 7T. Journal of Magnetic Resonance Imaging, 2009, 30, 606-614.	3.4	91
10	A method for estimating intracellular sodium concentration and extracellular volume fraction in brain <i>in vivo</i> using sodium magnetic resonance imaging. Scientific Reports, 2014, 4, 4763.	3.3	87
11	MRI assessment of bone structure and microarchitecture. Journal of Magnetic Resonance Imaging, 2017, 46, 323-337.	3.4	86
12	Compressed sensing sodium MRI of cartilage at 7T: Preliminary study. Journal of Magnetic Resonance, 2012, 214, 360-365.	2.1	85
13	T _{1ρ} MRI of human musculoskeletal system. Journal of Magnetic Resonance Imaging, 2015, 41, 586-600.	3.4	80
14	Articular Cartilage: Evaluation with Fluid-suppressed 7.0-T Sodium MR Imaging in Subjects with and Subjects without Osteoarthritis. Radiology, 2013, 268, 481-491.	7.3	78
15	T1 ρ MRI of menisci and cartilage in patients with osteoarthritis at 3T. European Journal of Radiology, 2012, 81, 2329-2336.	2.6	73
16	Finite Element Analysis Applied to 3-T MR Imaging of Proximal Femur Microarchitecture: Lower Bone Strength in Patients with Fragility Fractures Compared with Control Subjects. Radiology, 2014, 272, 464-474.	7.3	72
17	Isolating chemical exchange saturation transfer contrast from magnetization transfer asymmetry under two-frequency rf irradiation. Journal of Magnetic Resonance, 2012, 215, 56-63.	2.1	71
18	Assessment of glycosaminoglycan concentration changes in the intervertebral disc via chemical exchange saturation transfer. NMR in Biomedicine, 2012, 25, 255-261.	2.8	70

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19	Sodium inversion recovery MRI of the knee joint in vivo at 7T. Journal of Magnetic Resonance, 2010, 207, 42-52.	2.1	68
20	Adaptations in trabecular bone microarchitecture in Olympic athletes determined by 7T MRI. Journal of Magnetic Resonance Imaging, 2008, 27, 1089-1095.	3.4	65
21	In vivo measurement of T1 ρ dispersion in the human brain at 1.5 tesla. Journal of Magnetic Resonance Imaging, 2004, 19, 403-409.	3.4	60
22	Rapid 3D-T1 ρ mapping of the knee joint at 3.0T with parallel imaging. Magnetic Resonance in Medicine, 2006, 56, 563-571.	3.0	60
23	Three-dimensional T1 ρ -weighted MRI at 1.5 Tesla. Journal of Magnetic Resonance Imaging, 2003, 17, 730-736.	3.4	59
24	MRI of the wrist at 7 tesla using an eight-channel array coil combined with parallel imaging: Preliminary results. Journal of Magnetic Resonance Imaging, 2010, 31, 740-746.	3.4	54
25	Reproducibility and repeatability of quantitative sodium magnetic resonance imaging in vivo in articular cartilage at 3 T and 7 T. Magnetic Resonance in Medicine, 2012, 68, 841-849.	3.0	52
26	Sodium relaxation times in the knee joint <i>in vivo</i> at 7T. NMR in Biomedicine, 2012, 25, 530-537.	2.8	52
27	In vivo quantification of T1 ρ using a multislice spin-lock pulse sequence. Magnetic Resonance in Medicine, 2004, 52, 1453-1458.	3.0	51
28	Design of a nested eight-channel sodium and four-channel proton coil for 7T knee imaging. Magnetic Resonance in Medicine, 2013, 70, 259-268.	3.0	51
29	Dynamic three-dimensional imaging of phosphocreatine recovery kinetics in the human lower leg muscles at 3T and 7T: a preliminary study. NMR in Biomedicine, 2013, 26, 348-356.	2.8	46
30	Ultra-High-Field MRI of Knee Joint at 7.0T: Preliminary Experience. Academic Radiology, 2006, 13, 1135-1142.	2.5	44
31	Quantitative Mapping of Human Cartilage at 3.0T. Academic Radiology, 2014, 21, 463-471.	2.5	44
32	3D ²³ Na MRI of human skeletal muscle at 7 Tesla: initial experience. European Radiology, 2010, 20, 2039-2046.	4.5	43
33	T2 Measurements of Cartilage in Osteoarthritis Patients With Meniscal Tears. American Journal of Roentgenology, 2009, 193, W411-W415.	2.2	42
34	Improved assessment of cartilage repair tissue using fluid-suppressed ²³ Na inversion recovery MRI at 7 Tesla: preliminary results. European Radiology, 2012, 22, 1341-1349.	4.5	41
35	Biexponential T ρ relaxation mapping of human knee cartilage <i>in vivo</i> at 3T. NMR in Biomedicine, 2017, 30, e3760.	2.8	41
36	Serum Urate Levels Predict Joint Space Narrowing in Non-Gout Patients With Medial Knee Osteoarthritis. Arthritis and Rheumatology, 2017, 69, 1213-1220.	5.6	40

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37	Accelerating 3D ^1H mapping of cartilage using compressed sensing with different sparse and low rank models. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1475-1491.	3.0	40
38	Characterization of bovine patellar cartilage by NMR. <i>NMR in Biomedicine</i> , 2008, 21, 289-295.	2.8	39
39	Relaxation times of skeletal muscle metabolites at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1457-1464.	3.4	38
40	<i>In vitro</i> study of endogenous CEST agents at 3%T and 7%T. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 4-14.	0.8	37
41	MRI of the hip at 7T: Feasibility of bone microarchitecture, high-resolution cartilage, and clinical imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1384-1393.	3.4	36
42	Comparison of a 28-channel receive array coil and quadrature volume coil for morphologic imaging and T2 mapping of knee cartilage at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 441-448.	3.4	35
43	Assessment of frequency drift on CEST MRI and dynamic correction: application to gagCEST at 7 T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 573-582.	3.0	35
44	Indirect ^{17}O -magnetic resonance imaging of cerebral blood flow in the rat. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 479-487.	3.0	34
45	7 Tesla MRI of bone microarchitecture discriminates between women without and with fragility fractures who do not differ by bone mineral density. <i>Journal of Bone and Mineral Metabolism</i> , 2015, 33, 285-293.	2.7	34
46	Clean demarcation of cartilage tissue ^{23}Na by inversion recovery. <i>Journal of Magnetic Resonance</i> , 2008, 193, 207-209.	2.1	32
47	In Vivo 7.0-Tesla Magnetic Resonance Imaging of the Wrist and Hand: Technical Aspects and Applications. <i>Seminars in Musculoskeletal Radiology</i> , 2009, 13, 074-084.	0.7	31
48	Feasibility of three-dimensional MRI of proximal femur microarchitecture at 3 tesla using 26 receive elements without and with parallel imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 229-238.	3.4	30
49	Classification of sodium MRI data of cartilage using machine learning. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1435-1448.	3.0	30
50	Proton MRI of metabolically produced H_2^{17}O using an efficient $^{17}\text{O}_2$ delivery system. <i>NeuroImage</i> , 2004, 22, 611-618.	4.2	29
51	Uniform saturation of a strongly coupled spin system by two-frequency irradiation. <i>Journal of Chemical Physics</i> , 2011, 134, 234504.	3.0	29
52	Chemical shift-encoded MRI for assessment of bone marrow adipose tissue fat composition: Pilot study in premenopausal versus postmenopausal women. <i>Magnetic Resonance Imaging</i> , 2018, 53, 148-155.	1.8	29
53	Behavior of ordered sodium in enzymatically depleted cartilage tissue. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1151-1155.	3.0	28
54	Rapid 3D ^1H mapping of cartilage with variable flip angle and parallel imaging at 3.0T. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 154-161.	3.4	28

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55	Does joint alignment affect the T2 values of cartilage in patients with knee osteoarthritis?. European Radiology, 2010, 20, 1532-1538.	4.5	28
56	Rapid 3D MRI imaging of phosphocreatine recovery kinetics in the human lower leg muscles with compressed sensing. Magnetic Resonance in Medicine, 2012, 68, 1738-1746.	3.0	28
57	MRI of synovitis and joint fluid. Journal of Magnetic Resonance Imaging, 2019, 49, 1512-1527.	3.4	28
58	T1ρ-MR Imaging of the Human Wrist in Vivo. Academic Radiology, 2003, 10, 614-619.	2.5	27
59	3D-T1ρ-quantitation of patellar cartilage at 3.0T. Journal of Magnetic Resonance Imaging, 2006, 24, 1357-1363.	3.4	27
60	Uniform magnetization transfer in chemical exchange saturation transfer magnetic resonance imaging. Scientific Reports, 2013, 3, 1707.	3.3	27
61	A flexible nested sodium and proton coil array with wideband matching for knee cartilage MRI at 3T. Magnetic Resonance in Medicine, 2016, 76, 1325-1334.	3.0	27
62	Novel Contrast Mechanisms at 3 Tesla and 7 Tesla. Seminars in Musculoskeletal Radiology, 2008, 12, 266-280.	0.7	26
63	Bi-component T1ρ and T2 Relaxation Mapping of Skeletal Muscle In-Vivo. Scientific Reports, 2017, 7, 14115.	3.3	26
64	Repeatability of Quantitative Sodium Magnetic Resonance Imaging for Estimating Pseudo-Intracellular Sodium Concentration and Pseudo-Extracellular Volume Fraction in Brain at 3 T. PLoS ONE, 2015, 10, e0118692.	2.5	26
65	Depth-dependent proton magnetization transfer in articular cartilage. Journal of Magnetic Resonance Imaging, 2005, 22, 318-323.	3.4	25
66	3D MRI mapping of phosphocreatine concentration in the human calf muscle at 7 T: Comparison to 3 T. Magnetic Resonance in Medicine, 2013, 70, 1619-1625.	3.0	25
67	MR fingerprinting for rapid simultaneous T ₁ , T ₂ , and T _{1ρ} relaxation mapping of the human articular cartilage at 3T. Magnetic Resonance in Medicine, 2020, 84, 2636-2644.	3.0	25
68	In vivo estimation of bone stiffness at the distal femur and proximal tibia using ultra-high-field 7-Tesla magnetic resonance imaging and micro-finite element analysis. Journal of Bone and Mineral Metabolism, 2012, 30, 243-251.	2.7	24
69	Three-dimensional mapping of the creatine kinase enzyme reaction rate in muscles of the lower leg. NMR in Biomedicine, 2013, 26, 1142-1151.	2.8	24
70	Concurrent saturation transfer contrast in in vivo brain by a uniform magnetization transfer MRI. NeuroImage, 2014, 95, 22-28.	4.2	24
71	MRI of the Musculoskeletal System: Advanced Applications using High and Ultrahigh Field MRI. Seminars in Musculoskeletal Radiology, 2015, 19, 363-374.	0.7	24
72	Monotone FISTA With Variable Acceleration for Compressed Sensing Magnetic Resonance Imaging. IEEE Transactions on Computational Imaging, 2019, 5, 109-119.	4.4	24

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73	3 Tesla MRI detects deterioration in proximal femur microarchitecture and strength in long-term glucocorticoid users compared with controls. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1489-1496.	3.4	21
74	3-T MR Imaging of Proximal Femur Microarchitecture in Subjects with and without Fragility Fracture and Nonosteoporotic Proximal Femur Bone Mineral Density. <i>Radiology</i> , 2018, 287, 608-619.	7.3	21
75	Longitudinal study of sodium MRI of articular cartilage in patients with knee osteoarthritis: initial experience with 16-month follow-up. <i>European Radiology</i> , 2018, 28, 133-142.	4.5	21
76	Rapid compositional mapping of knee cartilage with compressed sensing MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1185-1198.	3.4	21
77	Relation between cartilage volume and meniscal contact in medial osteoarthritis of the knee. <i>Knee</i> , 2012, 19, 896-901.	1.6	20
78	7T MRI detects deterioration in subchondral bone microarchitecture in subjects with mild knee osteoarthritis as compared with healthy controls. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1311-1317.	3.4	20
79	Investigation of Regional Influence of Magic-Angle Effect on T2 in Human Articular Cartilage with Osteoarthritis at 3 T. <i>Academic Radiology</i> , 2015, 22, 87-92.	2.5	20
80	Bi-exponential 3D-T1 ρ -mapping of whole brain at 3T. <i>Scientific Reports</i> , 2018, 8, 1176.	3.3	20
81	Compressed sensing acceleration of biexponential 3D-T1 ρ relaxation mapping of knee cartilage. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 863-880.	3.0	20
82	MR Imaging Assessment of Articular Cartilage Repair Procedures. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2011, 19, 323-337.	1.1	19
83	Spectrally selective 3D TSE imaging of phosphocreatine in the human calf muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 812-817.	3.0	19
84	High resolution morphologic imaging and T2 mapping of cartilage at 7T: comparison of cartilage repair patients and healthy controls. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 539-548.	2.0	19
85	T1 ρ -Mapping for Musculoskeletal Pain Diagnosis: Case Series of Variation of Water Bound Glycosaminoglycans Quantification before and after Fascial Manipulation [®] in Subjects with Elbow Pain. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 708.	2.6	19
86	Injectable recombinant block polymer gel for sustained delivery of therapeutic protein in post traumatic osteoarthritis. <i>Biomaterials</i> , 2022, 281, 121370.	11.4	19
87	Biexponential T ₂ relaxation estimation of human knee cartilage in vivo at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 809-819.	3.4	18
88	Optimal excitation of N23a nuclear spins in the presence of residual quadrupolar coupling and quadrupolar relaxation. <i>Journal of Chemical Physics</i> , 2009, 131, 174501.	3.0	17
89	Optimal nuclear magnetic resonance excitation schemes for the central transition of a spin 3/2 in the presence of residual quadrupolar coupling. <i>Journal of Chemical Physics</i> , 2008, 129, 224510.	3.0	16
90	Relationship between knee alignment and T1 ρ values of articular cartilage and menisci in patients with knee osteoarthritis. <i>European Journal of Radiology</i> , 2013, 82, 1946-1952.	2.6	16

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91	T1rho MRI of menisci in patients with osteoarthritis at 3 Tesla: A preliminary study. Journal of Magnetic Resonance Imaging, 2014, 40, 588-595.	3.4	16
92	T1rho MRI at 3T of menisci in patients with acute anterior cruciate ligament (ACL) injury. Journal of Magnetic Resonance Imaging, 2015, 41, 544-549.	3.4	16
93	3T chemical shift-encoded MRI: Detection of altered proximal femur marrow adipose tissue composition in glucocorticoid users and validation with magnetic resonance spectroscopy. Journal of Magnetic Resonance Imaging, 2019, 50, 490-496.	3.4	16
94	Quantifying muscle glycosaminoglycan levels in patients with post-stroke muscle stiffness using T1rho MRI. Scientific Reports, 2019, 9, 14513.	3.3	16
95	Reproducibility of subregional trabecular bone micro-architectural measures derived from 7-Tesla magnetic resonance images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 121-125.	2.0	15
96	Measurement reproducibility of magnetic resonance imaging-based finite element analysis of proximal femur microarchitecture for in vivo assessment of bone strength. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 407-412.	2.0	15
97	Optimal control NMR differentiation between fast and slow sodium. Chemical Physics Letters, 2010, 494, 331-336.	2.6	14
98	Biochemical and Physiological MR Imaging of Skeletal Muscle at 7 Tesla and Above. Seminars in Musculoskeletal Radiology, 2010, 14, 269-278.	0.7	14
99	Transfer Rate Edited experiment for the selective detection of Chemical Exchange via Saturation Transfer (TRE-CEST). Journal of Magnetic Resonance, 2015, 256, 43-51.	2.1	14
100	Accelerated mono- and biexponential 3D T1rho relaxation mapping of knee cartilage using golden angle radial acquisitions and compressed sensing. Magnetic Resonance in Medicine, 2020, 83, 1291-1309.	3.0	14
101	Simultaneous T₁, T₂, and T_{1rho} relaxation mapping of the lower leg muscle with MR fingerprinting. Magnetic Resonance in Medicine, 2021, 86, 372-381.	3.0	14
102	Measurement of 3D Internal Dynamic Strains in the Intervertebral Disc of the Lumbar Spine With Mechanical Loading and Golden Angle Radial Sparse Parallel Magnetic Resonance Imaging. Journal of Magnetic Resonance Imaging, 2021, 54, 486-496.	3.4	13
103	Selective detection of ordered sodium signals by a jump-and-return pulse sequence. Journal of Magnetic Resonance, 2009, 200, 126-129.	2.1	12
104	Assessment of subchondral bone marrow lipids in healthy controls and mild osteoarthritis patients at 3T. NMR in Biomedicine, 2012, 25, 545-555.	2.8	12
105	In vivo measurement reproducibility of femoral neck microarchitectural parameters derived from 3T MR images. Journal of Magnetic Resonance Imaging, 2015, 42, 1339-1345.	3.4	12
106	Current status of functional MRI of osteoarthritis for diagnosis and prognosis. Current Opinion in Rheumatology, 2020, 32, 102-109.	4.3	12
107	Fast data-driven learning of parallel MRI sampling patterns for large scale problems. Scientific Reports, 2021, 11, 19312.	3.3	12
108	Three-dimensional Saturation Transfer 31P-MRI in Muscles of the Lower Leg at 3.0 T. Scientific Reports, 2014, 4, 5219.	3.3	11

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109	Volumetric multicomponent T_1 relaxation mapping of the human liver under free breathing at 3T. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2042-2050.	3.0	11
110	Rapid mono and biexponential 3D- T_1 mapping of knee cartilage using variational networks. <i>Scientific Reports</i> , 2020, 10, 19144.	3.3	11
111	Optimization of spin-lock times in T_1 mapping of knee cartilage: Cram�r Rao bounds versus matched sampling fitting. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1418-1434.	3.0	11
112	Quantitative assessment of trabecular bone micro-architecture of the wrist via 7 Tesla MRI: preliminary results. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2011, 24, 191-199.	2.0	10
113	Trabecular bone characterization on the continuum of plates and rods using <i>in vivo</i> MR imaging and volumetric topological analysis. <i>Physics in Medicine and Biology</i> , 2016, 61, N478-N496.	3.0	10
114	Isotropic morphometry and multicomponent T_1 mapping of human knee articular cartilage in vivo at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1707-1716.	3.4	10
115	3T chemical shift-encoded MRI: Detection of altered proximal femur marrow adipose tissue composition in glucocorticoid users and validation with magnetic resonance spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, spcone-spcone.	3.4	10
116	Simultaneous bilateral T_1 , T_2 , and T_1 relaxation mapping of the hip joint with magnetic resonance fingerprinting. <i>NMR in Biomedicine</i> , 2022, 35, e4651.	2.8	10
117	Anterior-posterior stability of the knee by an MR image subtraction method. <i>Knee</i> , 2012, 19, 445-449.	1.6	9
118	Relationship between meniscal integrity and risk factors for cartilage degeneration. <i>Knee</i> , 2016, 23, 686-691.	1.6	9
119	In vivo tibiofemoral cartilage strain mapping under static mechanical loading using continuous GRASP MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 426-434.	3.4	9
120	Sodium inversion recovery MRI on the knee joint at 7 T with an optimal control pulse. <i>Journal of Magnetic Resonance</i> , 2016, 262, 33-41.	2.1	8
121	3D T_1 prepared zero echo time based PETRA sequence for in vivo biexponential relaxation mapping of semisolid short T_2 tissues at 3 T. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1207-1218.	3.4	8
122	Probing Rat Brain Oxygenation with Near-Infrared Spectroscopy (NIRS) and Magnetic Resonance Imaging (MRI). <i>Advances in Experimental Medicine and Biology</i> , 2003, 510, 199-204.	1.6	8
123	Alternating Learning Approach for Variational Networks and Undersampling Pattern in Parallel MRI Applications. <i>IEEE Transactions on Computational Imaging</i> , 2022, 8, 449-461.	4.4	7
124	Three-dimensional spin-lock magnetic resonance imaging of the shoulder joint at 3 T: initial experience. <i>Skeletal Radiology</i> , 2007, 36, 1171-1175.	2.0	6
125	Magic sandwich echo relaxation mapping of anisotropic systems. <i>Magnetic Resonance Imaging</i> , 2007, 25, 433-438.	1.8	6
126	Sodium MRI with fluid suppression: will it improve early detection of osteoarthritis?. <i>Imaging in Medicine</i> , 2011, 3, 1-4.	0.0	6

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127	Evaluation of Subchondral Bone Marrow Lipids of Acute Anterior Cruciate Ligament (ACL)-Injured Patients at 3T. <i>Academic Radiology</i> , 2014, 21, 758-766.	2.5	6
128	Bloch equations for proton exchange reactions in an aqueous solution. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2016, 45A, .	0.5	6
129	Juvenile Particulate Osteochondral Allograft for Treatment of Osteochondral Lesions of the Talus: Detection of Altered Repair Tissue Biochemical Composition Using 7 Tesla MRI and T2 Mapping. <i>Journal of Foot and Ankle Surgery</i> , 2017, 56, 26-29.	1.0	6
130	Dynamic 31P-MRI and 31P-MRS of lower leg muscles in heart failure patients. <i>Scientific Reports</i> , 2021, 11, 7412.	3.3	6
131	Feasibility of mapping unidirectional Pi \leftrightarrow ATP fluxes in muscles of the lower leg at 7.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 225-230.	3.0	5
132	A low-cost Mr compatible ergometer to assess post-exercise phosphocreatine recovery kinetics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 281-289.	2.0	5
133	7T MRI of distal radius trabecular bone microarchitecture: How trabecular bone quality varies depending on distance from endofbone. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 872-878.	3.4	5
134	Biexponential T ₁ relaxation mapping of human knee menisci. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 824-835.	3.4	5
135	Fast multicomponent 3D T ₁ relaxometry. <i>NMR in Biomedicine</i> , 2020, 33, e4318.	2.8	5
136	Lower extremity MRI following 10-week supervised exercise intervention in patients with diabetic peripheral neuropathy. <i>BMJ Open Diabetes Research and Care</i> , 2021, 9, e002312.	2.8	5
137	The Fate of Oral Glucosamine Traced by ¹³ C Labeling in the Dog. <i>Cartilage</i> , 2011, 2, 279-285.	2.7	4
138	Pilot study quantifying muscle glycosaminoglycan using bi-exponential T ₁ mapping in patients with muscle stiffness after stroke. <i>Scientific Reports</i> , 2021, 11, 13951.	3.3	4
139	Simultaneous Visualization of Nerves and Vessels of the Lower Extremities Using Magnetization-Prepared Susceptibility Weighted Magnetic Resonance Imaging at 3.0 T. <i>Operative Neurosurgery</i> , 2012, 70, ons1-ons7.	0.8	3
140	Quadrupolar jump-and-return pulse sequence for fluid-suppressed sodium MRI of the knee joint at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 641-647.	3.0	3
141	Subchondral bone microarchitecture analysis in the proximal tibia at 7-T MRI. <i>Acta Radiologica</i> , 2018, 59, 716-722.	1.1	3
142	MR Imaging of the Musculoskeletal System Using Ultrahigh Field (7T) MR Imaging. <i>PET Clinics</i> , 2018, 13, 551-565.	3.0	3
143	Performance Comparison of Compressed Sensing Algorithms for Accelerating T ₁ Mapping of Human Brain. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1130-1139.	3.4	3
144	Musculoskeletal MR Imaging Applications at Ultra-High (7T) Field Strength. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021, 29, 117-127.	1.1	3

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145	Why Buy an Expensive (\$7 Million) 7T MRI System for Biomedical Research?. Journal of Magnetic Resonance Imaging, 2014, 40, 280-282.	3.4	2
146	Advances in sodium MRI: biomedical applications from head to foot. NMR in Biomedicine, 2016, 29, 94-95.	2.8	2
147	Magnetization transfer in a partly deuterated lyotropic liquid crystal by single- and dual-frequency RF irradiations. Journal of Magnetic Resonance, 2017, 281, 141-150.	2.1	2
148	The Emerging Role of 7 Tesla MRI in Musculoskeletal Imaging. Current Radiology Reports, 2018, 6, 1.	1.4	1
149	The discrete Fourier transform for golden angle linogram sampling. Inverse Problems, 2019, 35, 125004.	2.0	1
150	Optimal gadolinium concentration for direct MR arthrography at high field strength up to 7T: In vitro model. Egyptian Journal of Radiology and Nuclear Medicine, 2013, 44, 283-289.	0.6	0
151	MRI Analysis of Anteroposterior Stability in the Normal Human Knee. , 2009, , .		0
152	Advanced MRI of Cartilage and Subchondral Bone in Osteoarthritis. , 2014, , 177-191.		0
153	MAGNETIC RESONANCE IMAGING OF CARTILAGE REPAIR WITH A FOCUS ON SUBCHONDRAL BONE. , 2014, , 305-324.		0
154	SODIUM IMAGING OF THE KNEE JOINT REPAIR. , 2014, , 273-303.		0
155	Chapter 7 Uniform-MT Method to Separate CEST Contrast from MT Effects. , 2017, , 97-120.		0
156	Chapter 16 Cartilage and Intervertebral Disc Imaging and Glycosaminoglycan Chemical Exchange Saturation Transfer (gagCEST) Experiment. , 2017, , 377-398.		0