List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	MRI Estimation of Global Brain Oxygen Consumption Rate. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1598-1607.	4.3	239
2	Digital Topological Analysis of In Vivo Magnetic Resonance Microimages of Trabecular Bone Reveals Structural Implications of Osteoporosis. Journal of Bone and Mineral Research, 2001, 16, 1520-1531.	2.8	205
3	Cortical Bone Water: In Vivo Quantification with Ultrashort Echo-Time MR Imaging. Radiology, 2008, 248, 824-833.	7.3	199
4	Complete Volumetric Decomposition of Individual Trabecular Plates and Rods and Its Morphological Correlations With Anisotropic Elastic Moduli in Human Trabecular Bone. Journal of Bone and Mineral Research, 2008, 23, 223-235.	2.8	195
5	Structural and functional assessment of trabecular and cortical bone by micro magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2007, 25, 390-409.	3.4	184
6	Magnetic resonance microimaging of intraaxonal water diffusion in live excised lamprey spinal cord. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16192-16196.	7.1	180
7	Role of Magnetic Resonance for Assessing Structure and Function of Trabecular Bone. Topics in Magnetic Resonance Imaging, 2002, 13, 335-355.	1.2	175
8	Quantification of the Roles of Trabecular Microarchitecture and Trabecular Type in Determining the Elastic Modulus of Human Trabecular Bone. Journal of Bone and Mineral Research, 2006, 21, 1608-1617.	2.8	172
9	Effect of Testosterone Replacement on Trabecular Architecture in Hypogonadal Men. Journal of Bone and Mineral Research, 2005, 20, 1785-1791.	2.8	171
10	Quantitative MRI for the assessment of bone structure and function. NMR in Biomedicine, 2006, 19, 731-764.	2.8	171
11	Cerebral Oxygen Metabolism in Neonates with Congenital Heart Disease Quantified by MRI and Optics. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 380-388.	4.3	161
12	Cross-sectional Study of Osteopenia with Quantitative MR Imaging and Bone Densitometry. Radiology, 2000, 217, 527-538.	7.3	154
13	Deterioration of Trabecular Architecture in Hypogonadal Men. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 1497-1502.	3.6	152
14	Direct magnetic resonance detection of myelin and prospects for quantitative imaging of myelin density. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9605-9610.	7.1	149
15	Method for Image-Based Measurement of the Reversible and Irreversible Contribution to the Transverse-Relaxation Rate. Journal of Magnetic Resonance Series B, 1996, 111, 61-69.	1.6	145
16	Magnetic susceptibility measurement of insoluble solids by NMR: Magnetic susceptibility of bone Magnetic Resonance in Medicine, 1997, 37, 494-500.	3.0	141
17	Fuzzy Distance Transform: Theory, Algorithms, and Applications. Computer Vision and Image Understanding, 2002, 86, 171-190.	4.7	138
18	Measurement of Trabecular Bone Thickness in the Limited Resolution Regime of In Vivo MRI by Fuzzy Distance Transform. IEEE Transactions on Medical Imaging, 2004, 23, 53-62.	8.9	136

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19	Three-dimensional digital topological characterization of cancellous bone architecture. International Journal of Imaging Systems and Technology, 2000, 11, 81-90.	4.1	116
20	Accuracy of high-resolution in vivo micro magnetic resonance imaging for measurements of microstructural and mechanical properties of human distal tibial bone. Journal of Bone and Mineral Research, 2010, 25, 2039-2050.	2.8	115
21	Mechanisms of Contrast in NMR Imaging. Journal of Computer Assisted Tomography, 1984, 8, 369-380.	0.9	111
22	Intratendinous strain fields of the intact supraspinatus tendon: the effect of glenohumeral joint position and tendon region. Journal of Orthopaedic Research, 2002, 20, 869-874.	2.3	107
23	Quantitative high-resolution magnetic resonance imaging reveals structural implications of renal osteodystrophy on trabecular and cortical bone. Journal of Magnetic Resonance Imaging, 2004, 20, 83-89.	3.4	107
24	Indirect measurement of regional axon diameter in excised mouse spinal cord with q-space imaging: Simulation and experimental studies. NeuroImage, 2008, 40, 1619-1632.	4.2	106
25	Quantitative analysis of trabecular microstructure by 400 MHz nuclear magnetic resonance imaging. Journal of Bone and Mineral Research, 1995, 10, 803-811.	2.8	103
26	Fast 3D large-angle spin-echo imaging (3D FLASE). Magnetic Resonance in Medicine, 1996, 35, 903-910.	3.0	102
27	In vivo MRI of submillisecondT2 species with two-dimensional and three-dimensional radial sequences and applications to the measurement of cortical bone water. NMR in Biomedicine, 2008, 21, 59-70.	2.8	102
28	Radiologic, Pathologic, Clinical, and Physiologic Findings of Electronic Cigarette or Vaping Product Use–associated Lung Injury (EVALI): Evolving Knowledge and Remaining Questions. Radiology, 2020, 294, 491-505.	7.3	100
29	Investigating the magnetic susceptibility properties of fresh human blood for noninvasive oxygen saturation quantification. Magnetic Resonance in Medicine, 2012, 68, 863-867.	3.0	99
30	Volumetric Cortical Bone Porosity Assessment with MR Imaging: Validation and Clinical Feasibility. Radiology, 2015, 276, 526-535.	7.3	99
31	In Vivo Magnetic Resonance Detects Rapid Remodeling Changes in the Topology of the Trabecular Bone Network After Menopause and the Protective Effect of Estradiol. Journal of Bone and Mineral Research, 2008, 23, 730-740.	2.8	97
32	Rapid magnetic resonance measurement of global cerebral metabolic rate of oxygen consumption in humans during rest and hypercapnia. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1504-1512.	4.3	96
33	In vivo MR micro imaging with conventional radiofrequency coils cooled to 77�K. Magnetic Resonance in Medicine, 2000, 43, 163-169.	3.0	95
34	Methodology for the measurement and analysis of relaxation times in proton imaging. Magnetic Resonance Imaging, 1987, 5, 209-220.	1.8	94
35	Three-dimensional nuclear magnetic resonance microimaging of trabecular bone. Journal of Bone and Mineral Research, 1995, 10, 1452-1461.	2.8	94
36	In vivo Quantitative characterization of trabecular bone by NMR. Magnetic Resonance in Medicine, 1991. 17. 543-551.	3.0	91

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37	Nuclear Magnetic Resonance Studies of Bone Water. Annals of Biomedical Engineering, 2005, 33, 79-86.	2.5	91
38	In vivo MR microscopy of the human skin. Magnetic Resonance in Medicine, 1997, 37, 185-191.	3.0	90
39	Chemical shift-induced amplitude modulations in images obtained with gradient refocusing. Magnetic Resonance Imaging, 1987, 5, 157-158.	1.8	89
40	Diffusion of Exchangeable Water in Cortical Bone Studied by Nuclear Magnetic Resonance. Biophysical Journal, 2002, 82, 522-529.	0.5	89
41	Water Content Measured by Proton-Deuteron Exchange NMR Predicts Bone Mineral Density and Mechanical Properties. Journal of Bone and Mineral Research, 2003, 19, 289-296.	2.8	89
42	Magnetic field distribution in models of trabecular bone. Magnetic Resonance in Medicine, 1993, 30, 373-379.	3.0	88
43	Micro–MR Imaging–based Computational Biomechanics Demonstrates Reduction in Cortical and Trabecular Bone Strength after Renal Transplantation. Radiology, 2012, 262, 912-920.	7.3	87
44	Longitudinal Reproducibility and Accuracy of Pseudo-Continuous Arterial Spin–labeled Perfusion MR Imaging in Typically Developing Children. Radiology, 2012, 263, 527-536.	7.3	86
45	Acute exposure to e-cigarettes causes inflammation and pulmonary endothelial oxidative stress in nonsmoking, healthy young subjects. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L155-L166.	2.9	85
46	Probability-based structural parameters from three-dimensional nuclear magnetic resonance images as predictors of trabecular bone strength. Medical Physics, 1997, 24, 1255-1261.	3.0	80
47	Acute Effects of Electronic Cigarette Aerosol Inhalation on Vascular Function Detected at Quantitative MRI. Radiology, 2019, 293, 97-106.	7.3	76
48	In Vivo μMRI-Based Finite Element and Morphological Analyses of Tibial Trabecular Bone in Eugonadal and Hypogonadal Men Before and After Testosterone Treatment. Journal of Bone and Mineral Research, 2008, 23, 1426-1434.	2.8	75
49	Reproducibility of relaxation and spin-density parameters in phantoms and the human brain measured by MR imaging at 1.5T. Magnetic Resonance in Medicine, 1986, 3, 649-662.	3.0	74
50	Skeletal Muscle Microvascular Flow in Progressive Peripheral Artery Disease. Journal of the American College of Cardiology, 2009, 53, 2372-2377.	2.8	74
51	Quantifying axon diameter and intra-cellular volume fraction in excised mouse spinal cord with q-space imaging. Neurolmage, 2010, 51, 1360-1366.	4.2	74
52	Quantifying cortical bone water <i>in vivo</i> by threeâ€dimensional ultraâ€short echoâ€ŧime MRI. NMR in Biomedicine, 2011, 24, 855-864.	2.8	74
53	Cortical Bone Water Concentration: Dependence of MR Imaging Measures on Age and Pore Volume Fraction. Radiology, 2014, 272, 796-806.	7.3	72
54	A novel local thresholding algorithm for trabecular bone volume fraction mapping in the limited spatial resolution regime of in vivo MRI. IEEE Transactions on Medical Imaging, 2005, 24, 1574-1585.	8.9	71

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55	In vivo venous blood <i>T</i> ₁ measurement using inversion recovery trueâ€FISP in children and adults. Magnetic Resonance in Medicine, 2010, 64, 1140-1147.	3.0	69
56	Magnetic resonance of calcified tissues. Journal of Magnetic Resonance, 2013, 229, 35-48.	2.1	68
57	MR Imaging of Venous and Arterial Flow by a Selective Saturation-Recovery Spin Echo (SSRSE) Method. Journal of Computer Assisted Tomography, 1985, 9, 537-545.	0.9	66
58	In vivo micro-imaging using alternating navigator echoes with applications to cancellous bone structural analysis. Magnetic Resonance in Medicine, 1999, 41, 947-953.	3.0	65
59	Subvoxel processing: A method for reducing partial volume blurring with application to in vivo MR images of trabecular bone. Magnetic Resonance in Medicine, 2002, 47, 948-957.	3.0	61
60	Deuterium nuclear magnetic resonance unambiguously quantifies pore and collagen-bound water in cortical bone. Journal of Bone and Mineral Research, 2012, 27, 2573-2581.	2.8	61
61	Adverse Fat Depots and Marrow Adiposity Are Associated With Skeletal Deficits and Insulin Resistance in Long-Term Survivors of Pediatric Hematopoietic Stem Cell Transplantation. Journal of Bone and Mineral Research, 2015, 30, 1657-1666.	2.8	61
62	Trabecular Structure Quantified With the MRI-Based Virtual Bone Biopsy in Postmenopausal Women Contributes to Vertebral Deformity Burden Independent of Areal Vertebral BMD. Journal of Bone and Mineral Research, 2008, 23, 64-74.	2.8	60
63	Computational biomechanics of the distal tibia from high-resolution MR and micro-CT images. Bone, 2010, 47, 556-563.	2.9	60
64	Time-of-flight effects in MR imaging of flow. Magnetic Resonance in Medicine, 1990, 14, 187-193.	3.0	57
65	On the fractal nature of trabecular structure. Medical Physics, 1994, 21, 1535-1540.	3.0	57
66	A robust method for measuring trabecular bone orientation anisotropy at in vivo resolution using tensor scale. Pattern Recognition, 2004, 37, 1935-1944.	8.1	55
67	High Temporal Resolution MRI Quantification of Global Cerebral Metabolic Rate of Oxygen Consumption in Response to Apneic Challenge. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1514-1522.	4.3	54
68	Pulse sequence programming in a dynamic visual environment: SequenceTree. Magnetic Resonance in Medicine, 2016, 75, 257-265.	3.0	50
69	Spatial autocorrelation and mean intercept length analysis of trabecular bone anisotropy applied toin vivomagnetic resonance imaging. Medical Physics, 2007, 34, 1110-1120.	3.0	49
70	Estimating voxel volume fractions of trabecular bone on the basis of magnetic resonance images acquiredin vivo. International Journal of Imaging Systems and Technology, 1999, 10, 186-198.	4.1	48
71	Quantitative Magnetic Resonance Imaging in the Calcaneus and Femur of Women With Varying Degrees of Osteopenia and Vertebral Deformity Status. Journal of Bone and Mineral Research, 2002, 17, 2265-2273.	2.8	47
72	Method for Cortical Bone Structural Analysis From Magnetic Resonance Images1. Academic Radiology, 2005, 12, 1320-1332.	2.5	47

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73	Biâ€component <i>T</i> ₂ * analysis of bound and pore bone water fractions fails at high field strengths. NMR in Biomedicine, 2015, 28, 861-872.	2.8	46
74	The Calculation of the Susceptibility-Induced Magnetic Field from 3D NMR Images with Applications to Trabecular Bone. Journal of Magnetic Resonance Series B, 1995, 109, 126-145.	1.6	43
75	Comparison of optimized softâ€ŧissue suppression schemes for ultrashort echo time MRI. Magnetic Resonance in Medicine, 2012, 68, 680-689.	3.0	43
76	The role of stress-induced cortisol in the relationship between depression and decreased bone mineral density. Biological Psychiatry, 2005, 57, 911-917.	1.3	42
77	Multiparametric Assessment of Vascular Function in Peripheral Artery Disease. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	41
78	MRI-based methods for quantification of the cerebral metabolic rate of oxygen. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1165-1185.	4.3	41
79	Susceptibilityâ€based timeâ€resolved wholeâ€organ and regional tissue oximetry. NMR in Biomedicine, 2017, 30, e3495.	2.8	41
80	Mechanical implications of estrogen supplementation in early postmenopausal women. Journal of Bone and Mineral Research, 2010, 25, 1406-1414.	2.8	40
81	Evaluation of Cuff-Induced Ischemia in the Lower Extremity by Magnetic Resonance Oximetry. Journal of the American College of Cardiology, 2010, 55, 598-606.	2.8	40
82	Solid-State Quantitative 1H and 31P MRI of Cortical Bone in Humans. Current Osteoporosis Reports, 2016, 14, 77-86.	3.6	40
83	Towards quantification of myelin by solid-state MRI of the lipid matrix protons. NeuroImage, 2017, 163, 358-367.	4.2	40
84	Determination of Background Gradients with Diffusion MR Imaging. Journal of Magnetic Resonance Imaging, 1994, 4, 787-797.	3.4	39
85	Topology-based orientation analysis of trabecular bone networks. Medical Physics, 2003, 30, 158-168.	3.0	39
86	Implications of noise and resolution on mechanical properties of trabecular bone estimated by imageâ€based finiteâ€element analysis. Journal of Orthopaedic Research, 2009, 27, 1263-1271.	2.3	38
87	Bone mineral ³¹ P and matrixâ€bound water densities measured by solidâ€state ³¹ P and ¹ H MRI. NMR in Biomedicine, 2014, 27, 739-748.	2.8	38
88	13C NMR low temperature study of the rotation around the chromiumî—,arene bond. Journal of Organometallic Chemistry, 1974, 73, 327-330.	1.8	37
89	Accuracy of the cylinder approximation for susceptometric measurement of intravascular oxygen saturation. Magnetic Resonance in Medicine, 2012, 67, 808-813.	3.0	37
90	A mathematical model for signal from spins flowing during the application of spin echo pulse sequences. Magnetic Resonance Imaging, 1988, 6, 437-461.	1.8	36

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91	Feasibility of assessing bone matrix and mineral properties in vivo by combined solid-state 1H and 31P MRI. PLoS ONE, 2017, 12, e0173995.	2.5	36
92	Performance of the MRI-based virtual bone biopsy in the distal radius: Serial reproducibility and reliability of structural and mechanical parameters in women representative of osteoporosis study populations. Bone, 2011, 49, 895-903.	2.9	35
93	High temporal resolution in vivo blood oximetry via projection-based <i>T</i> ₂ measurement. Magnetic Resonance in Medicine, 2013, 70, 785-790.	3.0	34
94	A Bayesian approach to subvoxel tissue classification in NMR microscopic images of trabecular bone. Magnetic Resonance in Medicine, 1994, 31, 302-308.	3.0	33
95	Variable TE gradient and spin echo sequences forinVivo MR microscopy of short T2 species. Magnetic Resonance in Medicine, 1998, 39, 251-258.	3.0	33
96	Characterization of trabecular bone density with ultraâ€short echoâ€time MRI at 1.5, 3.0 and 7.0 T – comparison with microâ€computed tomography. NMR in Biomedicine, 2014, 27, 1159-1166.	2.8	33
97	Quantification of Contrast in Clinical MR Brain Imaging at High Magnetic Field. Investigative Radiology, 1985, 20, 360-369.	6.2	31
98	Correction of Excitation Profile in Zero Echo Time (ZTE) Imaging Using Quadratic Phase-Modulated RF Pulse Excitation and Iterative Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 961-969.	8.9	31
99	Carbon-13 magnetic resonance study of terpenoids. I. Application of heteronuclear selective decoupling experiments to the spectral assignments of nonproton-bearing carbon-13 resonances of a germacranolide, melampodin. Journal of Organic Chemistry, 1973, 38, 3618-3622.	3.2	30
100	Accuracy of MRI-based finite element assessment of distal tibia compared to mechanical testing. Bone, 2018, 108, 71-78.	2.9	30
101	High-Resolution Black-Blood MRI of the Carotid Vessel Wall Using Phased-Array Coils at 1.5 and 3 Tesla1. Academic Radiology, 2005, 12, 1521-1526.	2.5	29
102	Classification of trabeculae into threeâ€dimensional rodlike and platelike structures via local inertial anisotropy. Medical Physics, 2009, 36, 3280-3291.	3.0	29
103	Effects of Testosterone and Growth Hormone on the Structural and Mechanical Properties of Bone by Micro-MRI in the Distal Tibia of Men With Hypopituitarism. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 1236-1244.	3.6	29
104	NMR determination of site-specific deuterium isotope effects. Journal of the American Chemical Society, 1982, 104, 4492-4494.	13.7	28
105	The Origins and Future of Nuclear Magnetic Resonance Imaging. Physics Today, 1992, 45, 34-42.	0.3	28
106	Potential diagnostic role of the MRI-derived internal magnetic field gradient in calcaneus cancellous bone for evaluating postmenopausal osteoporosis at 3T. Bone, 2013, 57, 155-163.	2.9	28
107	Trabecular Bone Structure Analysis in the Limited Spatial Resolution Regime of In Vivo MRI. Academic Radiology, 2008, 15, 1482-1493.	2.5	27
108	Comparison of MRI methods for measuring wholeâ€brain venous oxygen saturation. Magnetic Resonance in Medicine, 2015, 73, 2122-2128.	3.0	26

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109	Cerebral metabolic rate of oxygen in obstructive sleep apnea at rest and in response to breath-hold challenge. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 755-767.	4.3	26
110	<i>In vivo</i> NMR microscopy allows short-term serial assessment of multiple skeletal implications of corticosteroid exposure. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4574-4579.	7.1	25
111	Mineral Volume and Morphology in Carotid Plaque Specimens Using High-Resolution MRI and CT. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1729-1735.	2.4	25
112	Quantitative Microcomputed Tomography Assessment of Intratrabecular, Intertrabecular, and Cortical Bone Architecture in a Rat Model of Severe Renal Osteodystrophy. Journal of Computer Assisted Tomography, 2007, 31, 320-328.	0.9	25
113	Computationally-Optimized Bone Mechanical Modeling from High-Resolution Structural Images. PLoS ONE, 2012, 7, e35525.	2.5	25
114	Quantification of arterial cerebral blood volume using multiphaseâ€balanced SSFPâ€based ASL. Magnetic Resonance in Medicine, 2012, 68, 130-139.	3.0	24
115	Time-Resolved MRI Oximetry for Quantifying CMRO2 and Vascular Reactivity. Academic Radiology, 2014, 21, 207-214.	2.5	24
116	Nontriggered MRI quantification of aortic pulseâ€wave velocity. Magnetic Resonance in Medicine, 2011, 65, 750-755.	3.0	23
117	13C Spectral assignment and spin-lattice relaxation in medium-sized molecules. Human Development, 1974, 6, 139-151.	0.8	22
118	From NMR diffraction and zeugmatography to modern imaging and beyond. Progress in Nuclear Magnetic Resonance Spectroscopy, 1995, 28, 87-135.	7.5	22
119	Experimental and computational analyses of the effects of slice distortion from a metallic sphere in an MRI phantom. Magnetic Resonance Imaging, 2006, 24, 1077-1085.	1.8	22
120	3D fast spin echo with out-of-slab cancellation: A technique for high-resolution structural imaging of trabecular bone at 7 tesla. Magnetic Resonance in Medicine, 2010, 63, 719-727.	3.0	22
121	Novel Assessment Tools for Osteoporosis Diagnosis and Treatment. Current Osteoporosis Reports, 2014, 12, 357-365.	3.6	22
122	Effects of age and smoking on endothelial function assessed by quantitative cardiovascular magnetic resonance in the peripheral and central vasculature. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 19.	3.3	22
123	Iron imaging in myocardial infarction reperfusion injury. Nature Communications, 2020, 11, 3273.	12.8	22
124	Effect of Prostaglandin and Bisphosphonate on Cancellous Bone Volume and Structure in the Ovariectomized Rat Studied by Quantitative Three-Dimensional Nuclear Magnetic Resonance Microscopy. Journal of Bone and Mineral Research, 1999, 14, 680-689.	2.8	21
125	Implications of resolution and noise for <i>in vivo</i> microâ€MRI of trabecular bone. Medical Physics, 2008, 35, 5584-5594.	3.0	21
126	Rapid T2- and susceptometry-based CMRO2 quantification with interleaved TRUST (iTRUST). NeuroImage, 2015, 106, 441-450.	4.2	21

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127	Simultaneous mapping of temporally-resolved blood flow velocity and oxygenation in femoral artery and vein during reactive hyperemia. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 66.	3.3	20
128	Selective in vivo bone imaging with longâ€∢i>T ₂ suppressed PETRA MRI. Magnetic Resonance in Medicine, 2017, 77, 989-997.	3.0	20
129	Effect of Low-Intensity Vibration on Bone Strength, Microstructure, and Adiposity in Pre-Osteoporotic Postmenopausal Women: A Randomized Placebo-Controlled Trial. Journal of Bone and Mineral Research, 2020, 36, 673-684.	2.8	20
130	Performance of μMRIâ€Based virtual bone biopsy for structural and mechanical analysis at the distal tibia at 7T field strength. Journal of Magnetic Resonance Imaging, 2011, 33, 372-381.	3.4	19
131	Interleaved quantitative BOLD: Combining extravascular R2Ê ¹ - and intravascular R2-measurements for estimation of deoxygenated blood volume and hemoglobin oxygen saturation. NeuroImage, 2018, 174, 420-431.	4.2	19
132	Nuclear Magnetic Resonance of the Less Common Quadrupolar Nuclei. Annual Reports on NMR Spectroscopy, 1979, 9, 125-219.	1.5	18
133	Skeletal effects of short-term exposure to dexamethasone and response to risedronate treatment studied in vivo in rabbits by magnetic resonance micro-imaging and spectroscopy. Journal of Bone and Mineral Metabolism, 2006, 24, 467-475.	2.7	18
134	Changes in T1 and T2 Observed in Brain Magnetic Resonance Imaging With Delivery of High Concentrations of Oxygen. Journal of Computer Assisted Tomography, 2007, 31, 662-665.	0.9	18
135	³¹ P NMR relaxation of cortical bone mineral at multiple magnetic field strengths and levels of demineralization. NMR in Biomedicine, 2013, 26, 1158-1166.	2.8	18
136	Acute e-cig inhalation impacts vascular health: a study in smoking naÃ ⁻ ve subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H144-H158.	3.2	18
137	CSF signal enhancement in short TR gradient echo images. Magnetic Resonance Imaging, 1986, 4, 465-467.	1.8	17
138	A Surrogate Measure of Cortical Bone Matrix Density by Long T2-Suppressed MRI. Journal of Bone and Mineral Research, 2015, 30, 2229-2238.	2.8	17
139	Simultaneous measurement of macro―and microvascular blood flow and oxygen saturation for quantification of muscle oxygen consumption. Magnetic Resonance in Medicine, 2018, 79, 846-855.	3.0	17
140	MRI evaluation of cerebrovascular reactivity in obstructive sleep apnea. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1328-1337.	4.3	17
141	Magnetic resonance imaging simulator: A teaching tool for radiology. Journal of Digital Imaging, 1990, 3, 226-229.	2.9	16
142	Assessment of Trabecular Bone Yield and Post-yield Behavior from High-Resolution MRI-Based Nonlinear Finite Element Analysis at the Distal Radius of Premenopausal and Postmenopausal Women Susceptible to Osteoporosis. Academic Radiology, 2013, 20, 1584-1591.	2.5	16
143	The Efficacy of Low-intensity Vibration to Improve Bone Health in Patients with End-stage Renal Disease Is Highly Dependent on Compliance and Muscle Response. Academic Radiology, 2017, 24, 1332-1342.	2.5	16
144	MRI quantification of human fetal O ₂ delivery rate in the second and third trimesters of pregnancy. Magnetic Resonance in Medicine, 2018, 80, 1148-1157.	3.0	16

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145	Mapping of the Magnetic-Field Distribution in Cancellous Bone. Journal of Magnetic Resonance Series B, 1996, 113, 172-176.	1.6	15
146	Bone vascularization and trabecular bone formation are mediated by PKBalpha/Akt1 in a geneâ€dosageâ€dependent manner: In vivo and ex vivo MRI. Magnetic Resonance in Medicine, 2010, 64, 54-64.	3.0	15
147	Method for Rapid MRI Quantification of Global Cerebral Metabolic Rate of Oxygen. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1616-1622.	4.3	15
148	Cervical spine MR imaging using multislice gradient echo imaging: Comparison with cardiac gated spin echo. Magnetic Resonance Imaging, 1988, 6, 517-525.	1.8	14
149	SAR reduced pulse sequences. Magnetic Resonance Imaging, 1988, 6, 125-130.	1.8	14
150	Predictability of SNR and reader preference in clinical MR imaging. Magnetic Resonance Imaging, 1990, 8, 737-745.	1.8	14
151	New architectural parameters derived from micro-MRI for the prediction of trabecular bone strength. Technology and Health Care, 1998, 6, 307-320.	1.2	14
152	Measurement of skeletal muscle perfusion dynamics with pseudoâ€continuous arterial spin labeling (pCASL): Assessment of relative labeling efficiency at rest and during hyperemia, and comparison to pulsed arterial spin labeling (PASL). Journal of Magnetic Resonance Imaging, 2016, 44, 929-939.	3.4	14
153	Rapid dualâ€RF, dualâ€echo, 3D ultrashort echo time craniofacial imaging: A feasibility study. Magnetic Resonance in Medicine, 2019, 81, 3007-3016.	3.0	13
154	Relationship between cancellous bone induced magnetic field and ultrastructure in a rat ovariectomy model. Magnetic Resonance Imaging, 2000, 18, 33-39.	1.8	12
155	Timeâ€resolved absolute velocity quantification with projections. Magnetic Resonance in Medicine, 2010, 64, 1599-1606.	3.0	12
156	Calibrated bold fMRI with an optimized ASL-BOLD dual-acquisition sequence. NeuroImage, 2016, 142, 474-482.	4.2	12
157	T ₂ â€prepared balanced steadyâ€state free precession (bSSFP) for quantifying wholeâ€blood oxygen saturation at 1.5T. Magnetic Resonance in Medicine, 2018, 79, 1893-1900.	3.0	12
158	Cerebral metabolic rate of oxygen during transition from wakefulness to sleep measured with high temporal resolution OxFlow MRI with concurrent EEG. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 780-792.	4.3	12
159	Non-triggered quantification of central and peripheral pulse-wave velocity. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 81.	3.3	11
160	Rapid High-resolution, Self-registered, Dual Lumen-contrast MRI Method for Vessel-wall Assessment in Peripheral Artery Disease:. Academic Radiology, 2016, 23, 457-467.	2.5	11
161	A multi-imaging modality study of bone density, bone structure and the muscle - bone unit in end-stage renal disease. Bone, 2019, 127, 271-279.	2.9	11
162	Venous cerebral blood volume mapping in the whole brain using venousâ€spinâ€labeled 3D turbo spin echo. Magnetic Resonance in Medicine, 2020, 84, 1991-2003.	3.0	11

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163	An object class-uncertainty induced adaptive force and its application to a new hybrid snake. Pattern Recognition, 2007, 40, 2656-2671.	8.1	10
164	Multiplexed MRI methods for rapid estimation of global cerebral metabolic rate of oxygen consumption. Neurolmage, 2017, 149, 393-403.	4.2	10
165	Highâ€speed wholeâ€brain oximetry by goldenâ€angle radial MRI. Magnetic Resonance in Medicine, 2018, 79, 217-223.	3.0	10
166	Chemistry of ambergris. 1. A short synthesis of (.+)deltaambrinol. Journal of Organic Chemistry, 1982, 47, 4786-4789.	3.2	9
167	Vessel-wall imaging and quantification of flow-mediated dilation using water-selective 3D SSFP-echo. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 100.	3.3	9
168	Whole-brain 3D mapping of oxygen metabolism using constrained quantitative BOLD. Neurolmage, 2022, 250, 118952.	4.2	9
169	Statistical Analysis of Magnetic Resonance Imaging Data in the Normal Brain (Data, Screening,) Tj ETQq1 1 0.784 (TheExpertStatisticalSystem). American Journal of Mathematical and Management Sciences, 1989, 9, 299-359	4314 rgBT 0.9	/Overlock 10 8
170	Visualization of individual axons in excised lamprey spinal cord by magnetic resonance microscopy. Journal of Neuroscience Methods, 2002, 114, 9-15.	2.5	8
171	Predicting trabecular bone elastic properties from measures of bone volume fraction and fabric on the basis of micromagnetic resonance images. Magnetic Resonance in Medicine, 2012, 68, 463-473.	3.0	8
172	In vivo bone ³¹ <scp>P</scp> relaxation times and their implications on mineral quantification. Magnetic Resonance in Medicine, 2018, 80, 2514-2524.	3.0	8
173	Calibrated fMRI for dynamic mapping of CMRO ₂ responses using MR-based measurements of whole-brain venous oxygen saturation. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1501-1516.	4.3	8
174	Self-Navigated Three-Dimensional Ultrashort Echo Time Technique for Motion-Corrected Skull MRI. IEEE Transactions on Medical Imaging, 2020, 39, 2869-2880.	8.9	8
175	Bone-Selective MRI as a Nonradiative Alternative to CT for Craniofacial Imaging. Academic Radiology, 2020, 27, 1515-1522.	2.5	8
176	A Noninvasive Method for Quantifying Cerebral Metabolic Rate of Oxygen by Hybrid PET/MRI: Validation in a Porcine Model. Journal of Nuclear Medicine, 2021, 62, 1789-1796.	5.0	8
177	Deuterium-induced13C nuclear magnetic resonance isotope shifts and13C2H couplings for signal assignments and determination of deuteration site in cyclooctanone. Magnetic Resonance in Chemistry, 1981, 17, 299-300.	0.7	6
178	Correcting bulk in-plane motion artifacts in MRI using the point spread function. IEEE Transactions on Medical Imaging, 2005, 24, 1170-1176.	8.9	6
179	Impact of gradient imperfections on bone water quantification with UTE MRI. Magnetic Resonance in Medicine, 2020, 84, 2034-2047.	3.0	6
180	On the Significance of Motion Degradation in High-resolution 3DÂμMRI of Trabecular Bone. Academic Radiology, 2011, 18, 1205-1216.	2.5	5

#	Article	IF	CITATIONS
181	Magnetization transfer micro-MR imaging of live excised lamprey spinal cord: characterization and immunohistochemical correlation. American Journal of Neuroradiology, 2004, 25, 1816-20.	2.4	5
182	New Insights From MRI and Cell Biology Into the Acute Vascular-Metabolic Implications of Electronic Cigarette Vaping. Frontiers in Physiology, 2020, 11, 492.	2.8	4
183	Alternating unbalanced SSFP for 3D mapping of the human brain. Magnetic Resonance in Medicine, 2021, 85, 2391-2402.	3.0	4
184	Magnetic susceptibility and R2* of myocardial reperfusion injury at 3T and 7T. Magnetic Resonance in Medicine, 2022, 87, 323-336.	3.0	4
185	MRI evaluation of cerebral metabolic rate of oxygen (CMRO2) in obstructive sleep apnea. Journal of Cerebral Blood Flow and Metabolism, 2022, , 0271678X2110710.	4.3	4
186	13C magnetic resonance of some cis and trans substituted ethylene phosphines. Tetrahedron Letters, 1972, 13, 1559-1562.	1.4	3
187	In vivo wholeâ€blood T ₂ versus HbO ₂ calibration by modulating blood oxygenation level in the femoral vein through intermittent cuff occlusion. Magnetic Resonance in Medicine, 2018, 79, 2290-2296.	3.0	3
188	New insight into the organization of myelin water using deuterium NMR. Magnetic Resonance in Medicine, 2020, 84, 535-541.	3.0	3
189	Metabolism of oxygen via <scp>T₂</scp> and interleaved velocity encoding: A rapid method to quantify wholeâ€brain cerebral metabolic rate of oxygen. Magnetic Resonance in Medicine, 2022, 88, 1229-1243.	3.0	3
190	Impact of supervised exercise on skeletal muscle blood flow and vascular function measured with MRI in patients with peripheral artery disease. American Journal of Physiology - Heart and Circulatory Physiology, 0, , .	3.2	3
191	Evaluation of Vascular Reactivity of Maternal Vascular Adaptations of Pregnancy With Quantitative MRI : Pilot Study. Journal of Magnetic Resonance Imaging, 2021, 53, 447-455.	3.4	2
192	Automatic Segmentation of Bone Selective MR Images for Visualization and Craniometry of the Cranial Vault. Academic Radiology, 2022, 29, S98-S106.	2.5	2
193	Noninvasive assessment of bone microarchitecture by MRI. Current Osteoporosis Reports, 2006, 4, 140-147.	3.6	2
194	High-speed slice-interleaved multiple gradient-echo imaging. Magnetic Resonance Imaging, 1987, 5, 552-553.	1.8	1
195	Characterizing and eliminating errors in enhancement and subtraction artifacts in dynamic contrastâ€enhanced breast MRI: Chemical shift artifact of the third kind. Magnetic Resonance in Medicine, 2018, 79, 2277-2289.	3.0	1
196	Effects of motion and bâ€value on apparent temperature measurement by diffusionâ€based thermometry MRI: eye vitreous study. Medical Physics, 2020, 47, 5006-5019.	3.0	1
197	Editorial: Vascular Health: The Endothelial Perspective in Regulation of Inflammation and Injury. Frontiers in Physiology, 2021, 12, 732234.	2.8	1
198	A flow-diffusion model of oxygen transport for quantitative mapping of cerebral metabolic rate of oxygen (CMRO ₂) with single gas calibrated fMRI. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1192-1209.	4.3	1

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#	AKTICLE	IF	CITATIONS
199	Quantification of 3D Topology and Scale of Trabecular Bone in the Limited Spatial Resolution Regime of in Vivo Micro-MRI. Microscopy and Microanalysis, 2004, 10, 718-719.	0.4	0
200	Registrationâ€based autofocusing technique for automatic correction of motion artifacts in timeâ€series studies of highâ€resolution bone MRI. Journal of Magnetic Resonance Imaging, 2015, 41, 954-963.	3.4	0
201	2118 Solid-state MRI as a nonradiative alternative to computed tomography for craniofacial imaging. Journal of Clinical and Translational Science, 2018, 2, 28-28.	0.6	0
202	Adverse fat depots, marrow adiposity, and skeletal deficits in long-term survivors of pediatric hematopoietic stem cell transplantation Journal of Clinical Oncology, 2015, 33, 10073-10073.	1.6	0