

Felix W Wehrli

List of Publications by Year in descending order

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202
papers

9,854
citations

20817

60
h-index

46799

89
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226
all docs

226
docs citations

226
times ranked

7384
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Segmentation of Bone Selective MR Images for Visualization and Craniometry of the Cranial Vault. <i>Academic Radiology</i> , 2022, 29, S98-S106.	2.5	2
2	Magnetic susceptibility and R2* of myocardial reperfusion injury at 3T and 7T. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 323-336.	3.0	4
3	MRI evaluation of cerebral metabolic rate of oxygen (CMRO ₂) in obstructive sleep apnea. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, , 0271678X2110710.	4.3	4
4	Whole-brain 3D mapping of oxygen metabolism using constrained quantitative BOLD. <i>NeuroImage</i> , 2022, 250, 118952.	4.2	9
5	A flow-diffusion model of oxygen transport for quantitative mapping of cerebral metabolic rate of oxygen (CMRO ₂) with single gas calibrated fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1192-1209.	4.3	1
6	Metabolism of oxygen via T_2 and interleaved velocity encoding: A rapid method to quantify whole-brain cerebral metabolic rate of oxygen. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1229-1243.	3.0	3
7	Cerebral metabolic rate of oxygen during transition from wakefulness to sleep measured with high temporal resolution OxFlow MRI with concurrent EEG. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 780-792.	4.3	12
8	Acute e-cig inhalation impacts vascular health: a study in smoking naïve subjects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H144-H158.	3.2	18
9	Alternating unbalanced SSFP for 3D mapping of the human brain. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2391-2402.	3.0	4
10	Evaluation of Vascular Reactivity of Maternal Vascular Adaptations of Pregnancy With Quantitative MRI : Pilot Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 447-455.	3.4	2
11	A Noninvasive Method for Quantifying Cerebral Metabolic Rate of Oxygen by Hybrid PET/MRI: Validation in a Porcine Model. <i>Journal of Nuclear Medicine</i> , 2021, 62, 1789-1796.	5.0	8
12	Editorial: Vascular Health: The Endothelial Perspective in Regulation of Inflammation and Injury. <i>Frontiers in Physiology</i> , 2021, 12, 732234.	2.8	1
13	Calibrated fMRI for dynamic mapping of CMRO ₂ responses using MR-based measurements of whole-brain venous oxygen saturation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1501-1516.	4.3	8
14	MRI evaluation of cerebrovascular reactivity in obstructive sleep apnea. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1328-1337.	4.3	17
15	Effects of motion and b_0 value on apparent temperature measurement by diffusion-based thermometry MRI: eye vitreous study. <i>Medical Physics</i> , 2020, 47, 5006-5019.	3.0	1
16	New Insights From MRI and Cell Biology Into the Acute Vascular-Metabolic Implications of Electronic Cigarette Vaping. <i>Frontiers in Physiology</i> , 2020, 11, 492.	2.8	4
17	Venous cerebral blood volume mapping in the whole brain using venous-spin-labeled 3D turbo spin echo. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1991-2003.	3.0	11
18	Self-Navigated Three-Dimensional Ultrashort Echo Time Technique for Motion-Corrected Skull MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2869-2880.	8.9	8

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19	Iron imaging in myocardial infarction reperfusion injury. Nature Communications, 2020, 11, 3273.	12.8	22
20	New insight into the organization of myelin water using deuterium NMR. Magnetic Resonance in Medicine, 2020, 84, 535-541.	3.0	3
21	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
22	Impact of gradient imperfections on bone water quantification with UTE MRI. Magnetic Resonance in Medicine, 2020, 84, 2034-2047.	3.0	6
23	Bone-Selective MRI as a Nonradiative Alternative to CT for Craniofacial Imaging. Academic Radiology, 2020, 27, 1515-1522.	2.5	8
24	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
25	Acute Effects of Electronic Cigarette Aerosol Inhalation on Vascular Function Detected at Quantitative MRI. Radiology, 2019, 293, 97-106.	7.3	76
26	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
27	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
28	Rapid dual-echo, dual-echo, 3D ultrashort echo time craniofacial imaging: A feasibility study. Magnetic Resonance in Medicine, 2019, 81, 3007-3016.	3.0	13
29	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
30	Accuracy of MRI-based finite element assessment of distal tibia compared to mechanical testing. Bone, 2018, 108, 71-78.	2.9	30
31	Interleaved quantitative BOLD: Combining extravascular R2* ¹ - and intravascular R2-measurements for estimation of deoxygenated blood volume and hemoglobin oxygen saturation. NeuroImage, 2018, 174, 420-431.	4.2	19
32	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
33	High-speed whole-brain oximetry by golden-angle radial MRI. Magnetic Resonance in Medicine, 2018, 79, 217-223.	3.0	10
34	T ₂ -prepared balanced steady-state free precession (bSSFP) for quantifying whole-blood oxygen saturation at 1.5T. Magnetic Resonance in Medicine, 2018, 79, 1893-1900.	3.0	12
35	In vivo whole-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
36	Characterizing and eliminating errors in enhancement and subtraction artifacts in dynamic contrast-enhanced breast MRI: Chemical shift artifact of the third kind. Magnetic Resonance in Medicine, 2018, 79, 2277-2289.	3.0	1

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37	2118 Solid-state MRI as a nonradiative alternative to computed tomography for craniofacial imaging. <i>Journal of Clinical and Translational Science</i> , 2018, 2, 28-28.	0.6	0
38	In vivo bone ³¹ P relaxation times and their implications on mineral quantification. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2514-2524.	3.0	8
39	Susceptibility-based time-resolved whole-organ and regional tissue oximetry. <i>NMR in Biomedicine</i> , 2017, 30, e3495.	2.8	41
40	Selective in vivo bone imaging with long T ₂ suppressed PETRA MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 989-997.	3.0	20
41	Multiplexed MRI methods for rapid estimation of global cerebral metabolic rate of oxygen consumption. <i>NeuroImage</i> , 2017, 149, 393-403.	4.2	10
42	Towards quantification of myelin by solid-state MRI of the lipid matrix protons. <i>NeuroImage</i> , 2017, 163, 358-367.	4.2	40
43	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. <i>Academic Radiology</i> , 2017, 24, 1332-1342.	2.5	16
44	Feasibility of assessing bone matrix and mineral properties in vivo by combined solid-state ¹ H and ³¹ P MRI. <i>PLoS ONE</i> , 2017, 12, e0173995.	2.5	36
45	Rapid High-resolution, Self-registered, Dual Lumen-contrast MRI Method for Vessel-wall Assessment in Peripheral Artery Disease. <i>Academic Radiology</i> , 2016, 23, 457-467.	2.5	11
46	MRI-based methods for quantification of the cerebral metabolic rate of oxygen. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1165-1185.	4.3	41
47	Solid-State Quantitative ¹ H and ³¹ P MRI of Cortical Bone in Humans. <i>Current Osteoporosis Reports</i> , 2016, 14, 77-86.	3.6	40
48	Calibrated bold fMRI with an optimized ASL-BOLD dual-acquisition sequence. <i>NeuroImage</i> , 2016, 142, 474-482.	4.2	12
49	Measurement of skeletal muscle perfusion dynamics with pseudo-continuous arterial spin labeling (pCASL): Assessment of relative labeling efficiency at rest and during hyperemia, and comparison to pulsed arterial spin labeling (PASL). <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 929-939.	3.4	14
50	Cerebral metabolic rate of oxygen in obstructive sleep apnea at rest and in response to breath-hold challenge. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 755-767.	4.3	26
51	Pulse sequence programming in a dynamic visual environment: SequenceTree. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 257-265.	3.0	50
52	Registration-based autofocusing technique for automatic correction of motion artifacts in time-series studies of high-resolution bone MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 954-963.	3.4	0
53	A Surrogate Measure of Cortical Bone Matrix Density by Long T ₂ -Suppressed MRI. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 2229-2238.	2.8	17
54	Adverse Fat Depots and Marrow Adiposity Are Associated With Skeletal Deficits and Insulin Resistance in Long-Term Survivors of Pediatric Hematopoietic Stem Cell Transplantation. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1657-1666.	2.8	61

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55	Bi-component T_2^* analysis of bound and pore bone water fractions fails at high field strengths. NMR in Biomedicine, 2015, 28, 861-872.	2.8	46
56	Comparison of MRI methods for measuring whole-brain venous oxygen saturation. Magnetic Resonance in Medicine, 2015, 73, 2122-2128.	3.0	26
57	Rapid T2- and susceptometry-based CMRO2 quantification with interleaved TRUST (iTRUST). NeuroImage, 2015, 106, 441-450.	4.2	21
58	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
59	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
60	Multiparametric Assessment of Vascular Function in Peripheral Artery Disease. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	41
61	Volumetric Cortical Bone Porosity Assessment with MR Imaging: Validation and Clinical Feasibility. Radiology, 2015, 276, 526-535.	7.3	99
62	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
63	Bone mineral ^{31}P and matrix-bound water densities measured by solid-state ^{31}P and ^1H MRI. NMR in Biomedicine, 2014, 27, 739-748.	2.8	38
64	Characterization of trabecular bone density with ultra-short echo-time MRI at 1.5, 3.0 and 7.0T: comparison with micro-computed tomography. NMR in Biomedicine, 2014, 27, 1159-1166.	2.8	33
65	Cortical Bone Water Concentration: Dependence of MR Imaging Measures on Age and Pore Volume Fraction. Radiology, 2014, 272, 796-806.	7.3	72
66	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
67	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
68	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
69	Novel Assessment Tools for Osteoporosis Diagnosis and Treatment. Current Osteoporosis Reports, 2014, 12, 357-365.	3.6	22
70	Time-Resolved MRI Oximetry for Quantifying CMRO2 and Vascular Reactivity. Academic Radiology, 2014, 21, 207-214.	2.5	24
71	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
72	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

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73	Magnetic resonance of calcified tissues. <i>Journal of Magnetic Resonance</i> , 2013, 229, 35-48.	2.1	68
74	Vessel-wall imaging and quantification of flow-mediated dilation using water-selective 3D SSFP-echo. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 100.	3.3	9
75	High Temporal Resolution MRI Quantification of Global Cerebral Metabolic Rate of Oxygen Consumption in Response to Apneic Challenge. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1514-1522.	4.3	54
76	³¹ P NMR relaxation of cortical bone mineral at multiple magnetic field strengths and levels of demineralization. <i>NMR in Biomedicine</i> , 2013, 26, 1158-1166.	2.8	18
77	High temporal resolution in vivo blood oximetry via projection-based T ₂ measurement. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 785-790.	3.0	34
78	Micro-MR Imaging-based Computational Biomechanics Demonstrates Reduction in Cortical and Trabecular Bone Strength after Renal Transplantation. <i>Radiology</i> , 2012, 262, 912-920.	7.3	87
79	Direct magnetic resonance detection of myelin and prospects for quantitative imaging of myelin density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9605-9610.	7.1	149
80	Longitudinal Reproducibility and Accuracy of Pseudo-Continuous Arterial Spin-labeled Perfusion MR Imaging in Typically Developing Children. <i>Radiology</i> , 2012, 263, 527-536.	7.3	86
81	Deuterium nuclear magnetic resonance unambiguously quantifies pore and collagen-bound water in cortical bone. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 2573-2581.	2.8	61
82	Computationally-Optimized Bone Mechanical Modeling from High-Resolution Structural Images. <i>PLoS ONE</i> , 2012, 7, e35525.	2.5	25
83	Accuracy of the cylinder approximation for susceptometric measurement of intravascular oxygen saturation. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 808-813.	3.0	37
84	Quantification of arterial cerebral blood volume using multiphase-balanced SSFP-based ASL. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 130-139.	3.0	24
85	Predicting trabecular bone elastic properties from measures of bone volume fraction and fabric on the basis of micromagnetic resonance images. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 463-473.	3.0	8
86	Comparison of optimized soft-tissue suppression schemes for ultrashort echo time MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 680-689.	3.0	43
87	Investigating the magnetic susceptibility properties of fresh human blood for noninvasive oxygen saturation quantification. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 863-867.	3.0	99
88	On the Significance of Motion Degradation in High-resolution 3D MRI of Trabecular Bone. <i>Academic Radiology</i> , 2011, 18, 1205-1216.	2.5	5
89	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. <i>Bone</i> , 2011, 49, 895-903.	2.9	35
90	Rapid magnetic resonance measurement of global cerebral metabolic rate of oxygen consumption in humans during rest and hypercapnia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1504-1512.	4.3	96

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91	Simultaneous mapping of temporally-resolved blood flow velocity and oxygenation in femoral artery and vein during reactive hyperemia. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 66.	3.3	20
92	Non-triggered quantification of central and peripheral pulse-wave velocity. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 81.	3.3	11
93	Performance of ^{17}O -MRI-based virtual bone biopsy for structural and mechanical analysis at the distal tibia at 7T field strength. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 372-381.	3.4	19
94	Nontriggered MRI quantification of aortic pulse-wave velocity. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 750-755.	3.0	23
95	Quantifying cortical bone water <i>in vivo</i> by three-dimensional ultra-short echo-time MRI. <i>NMR in Biomedicine</i> , 2011, 24, 855-864.	2.8	74
96	Mechanical implications of estrogen supplementation in early postmenopausal women. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1406-1414.	2.8	40
97	Accuracy of high-resolution <i>in vivo</i> micro magnetic resonance imaging for measurements of microstructural and mechanical properties of human distal tibial bone. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 2039-2050.	2.8	115
98	3D fast spin echo with out-of-slab cancellation: A technique for high-resolution structural imaging of trabecular bone at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 719-727.	3.0	22
99	Bone vascularization and trabecular bone formation are mediated by PKB/alpha/Akt1 in a gene-dosage-dependent manner: <i>In vivo</i> and <i>ex vivo</i> MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 54-64.	3.0	15
100	<i>In vivo</i> venous blood T_1 measurement using inversion recovery true-FISP in children and adults. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1140-1147.	3.0	69
101	Time-resolved absolute velocity quantification with projections. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1599-1606.	3.0	12
102	MRI Estimation of Global Brain Oxygen Consumption Rate. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1598-1607.	4.3	239
103	Evaluation of Cuff-Induced Ischemia in the Lower Extremity by Magnetic Resonance Oximetry. <i>Journal of the American College of Cardiology</i> , 2010, 55, 598-606.	2.8	40
104	Quantifying axon diameter and intra-cellular volume fraction in excised mouse spinal cord with q-space imaging. <i>NeuroImage</i> , 2010, 51, 1360-1366.	4.2	74
105	Computational biomechanics of the distal tibia from high-resolution MR and micro-CT images. <i>Bone</i> , 2010, 47, 556-563.	2.9	60
106	Classification of trabeculae into three-dimensional rodlike and platelike structures via local inertial anisotropy. <i>Medical Physics</i> , 2009, 36, 3280-3291.	3.0	29
107	Implications of noise and resolution on mechanical properties of trabecular bone estimated by image-based finite element analysis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1263-1271.	2.3	38
108	Skeletal Muscle Microvascular Flow in Progressive Peripheral Artery Disease. <i>Journal of the American College of Cardiology</i> , 2009, 53, 2372-2377.	2.8	74

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109	Trabecular Structure Quantified With the MRI-Based Virtual Bone Biopsy in Postmenopausal Women Contributes to Vertebral Deformity Burden Independent of Areal Vertebral BMD. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 64-74.	2.8	60
110	Complete Volumetric Decomposition of Individual Trabecular Plates and Rods and Its Morphological Correlations With Anisotropic Elastic Moduli in Human Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 223-235.	2.8	195
111	In vivo MRI of submillisecond T2 species with two-dimensional and three-dimensional radial sequences and applications to the measurement of cortical bone water. <i>NMR in Biomedicine</i> , 2008, 21, 59-70.	2.8	102
112	In Vivo Magnetic Resonance Detects Rapid Remodeling Changes in the Topology of the Trabecular Bone Network After Menopause and the Protective Effect of Estradiol. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 730-740.	2.8	97
113	In Vivo $^{1/4}$ MRI-Based Finite Element and Morphological Analyses of Tibial Trabecular Bone in Eugonadal and Hypogonadal Men Before and After Testosterone Treatment. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1426-1434.	2.8	75
114	Indirect measurement of regional axon diameter in excised mouse spinal cord with q-space imaging: Simulation and experimental studies. <i>NeuroImage</i> , 2008, 40, 1619-1632.	4.2	106
115	Trabecular Bone Structure Analysis in the Limited Spatial Resolution Regime of In Vivo MRI. <i>Academic Radiology</i> , 2008, 15, 1482-1493.	2.5	27
116	Cortical Bone Water: In Vivo Quantification with Ultrashort Echo-Time MR Imaging. <i>Radiology</i> , 2008, 248, 824-833.	7.3	199
117	Implications of resolution and noise for <i>in vivo</i> micro-MRI of trabecular bone. <i>Medical Physics</i> , 2008, 35, 5584-5594.	3.0	21
118	Spatial autocorrelation and mean intercept length analysis of trabecular bone anisotropy applied to <i>in vivo</i> magnetic resonance imaging. <i>Medical Physics</i> , 2007, 34, 1110-1120.	3.0	49
119	Quantitative Microcomputed Tomography Assessment of Intratrabecular, Intertrabecular, and Cortical Bone Architecture in a Rat Model of Severe Renal Osteodystrophy. <i>Journal of Computer Assisted Tomography</i> , 2007, 31, 320-328.	0.9	25
120	Changes in T1 and T2 Observed in Brain Magnetic Resonance Imaging With Delivery of High Concentrations of Oxygen. <i>Journal of Computer Assisted Tomography</i> , 2007, 31, 662-665.	0.9	18
121	Structural and functional assessment of trabecular and cortical bone by micro magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 390-409.	3.4	184
122	An object class-uncertainty induced adaptive force and its application to a new hybrid snake. <i>Pattern Recognition</i> , 2007, 40, 2656-2671.	8.1	10
123	Experimental and computational analyses of the effects of slice distortion from a metallic sphere in an MRI phantom. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1077-1085.	1.8	22
124	Quantification of the Roles of Trabecular Microarchitecture and Trabecular Type in Determining the Elastic Modulus of Human Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1608-1617.	2.8	172
125	Skeletal effects of short-term exposure to dexamethasone and response to risedronate treatment studied <i>in vivo</i> in rabbits by magnetic resonance micro-imaging and spectroscopy. <i>Journal of Bone and Mineral Metabolism</i> , 2006, 24, 467-475.	2.7	18
126	Quantitative MRI for the assessment of bone structure and function. <i>NMR in Biomedicine</i> , 2006, 19, 731-764.	2.8	171

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127	Noninvasive assessment of bone microarchitecture by MRI. <i>Current Osteoporosis Reports</i> , 2006, 4, 140-147.	3.6	2
128	Effect of Testosterone Replacement on Trabecular Architecture in Hypogonadal Men. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1785-1791.	2.8	171
129	Nuclear Magnetic Resonance Studies of Bone Water. <i>Annals of Biomedical Engineering</i> , 2005, 33, 79-86.	2.5	91
130	Mineral Volume and Morphology in Carotid Plaque Specimens Using High-Resolution MRI and CT. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 1729-1735.	2.4	25
131	High-Resolution Black-Blood MRI of the Carotid Vessel Wall Using Phased-Array Coils at 1.5 and 3 Tesla. <i>Academic Radiology</i> , 2005, 12, 1521-1526.	2.5	29
132	Method for Cortical Bone Structural Analysis From Magnetic Resonance Images. <i>Academic Radiology</i> , 2005, 12, 1320-1332.	2.5	47
133	A novel local thresholding algorithm for trabecular bone volume fraction mapping in the limited spatial resolution regime of in vivo MRI. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1574-1585.	8.9	71
134	Correcting bulk in-plane motion artifacts in MRI using the point spread function. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1170-1176.	8.9	6
135	The role of stress-induced cortisol in the relationship between depression and decreased bone mineral density. <i>Biological Psychiatry</i> , 2005, 57, 911-917.	1.3	42
136	Measurement of Trabecular Bone Thickness in the Limited Resolution Regime of In Vivo MRI by Fuzzy Distance Transform. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 53-62.	8.9	136
137	Quantitative high-resolution magnetic resonance imaging reveals structural implications of renal osteodystrophy on trabecular and cortical bone. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 83-89.	3.4	107
138	A robust method for measuring trabecular bone orientation anisotropy at in vivo resolution using tensor scale. <i>Pattern Recognition</i> , 2004, 37, 1935-1944.	8.1	55
139	Quantification of 3D Topology and Scale of Trabecular Bone in the Limited Spatial Resolution Regime of in Vivo Micro-MRI. <i>Microscopy and Microanalysis</i> , 2004, 10, 718-719.	0.4	0
140	Magnetization transfer micro-MR imaging of live excised lamprey spinal cord: characterization and immunohistochemical correlation. <i>American Journal of Neuroradiology</i> , 2004, 25, 1816-20.	2.4	5
141	Water Content Measured by Proton-Deuteron Exchange NMR Predicts Bone Mineral Density and Mechanical Properties. <i>Journal of Bone and Mineral Research</i> , 2003, 19, 289-296.	2.8	89
142	Topology-based orientation analysis of trabecular bone networks. <i>Medical Physics</i> , 2003, 30, 158-168.	3.0	39
143	Deterioration of Trabecular Architecture in Hypogonadal Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 1497-1502.	3.6	152
144	Magnetic resonance microimaging of intraaxonal water diffusion in live excised lamprey spinal cord. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16192-16196.	7.1	180

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145	<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
146	Role of Magnetic Resonance for Assessing Structure and Function of Trabecular Bone. Topics in Magnetic Resonance Imaging, 2002, 13, 335-355.	1.2	175
147	Diffusion of Exchangeable Water in Cortical Bone Studied by Nuclear Magnetic Resonance. Biophysical Journal, 2002, 82, 522-529.	0.5	89
148	Subvoxel processing: A method for reducing partial volume blurring with application to <i>in vivo</i> MR images of trabecular bone. Magnetic Resonance in Medicine, 2002, 47, 948-957.	3.0	61
149	Fuzzy Distance Transform: Theory, Algorithms, and Applications. Computer Vision and Image Understanding, 2002, 86, 171-190.	4.7	138
150	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
151	Visualization of individual axons in excised lamprey spinal cord by magnetic resonance microscopy. Journal of Neuroscience Methods, 2002, 114, 9-15.	2.5	8
152	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
153	Digital Topological Analysis of <i>In Vivo</i> Magnetic Resonance Microimages of Trabecular Bone Reveals Structural Implications of Osteoporosis. Journal of Bone and Mineral Research, 2001, 16, 1520-1531.	2.8	205
154	Three-dimensional digital topological characterization of cancellous bone architecture. International Journal of Imaging Systems and Technology, 2000, 11, 81-90.	4.1	116
155	<i>In vivo</i> MR micro imaging with conventional radiofrequency coils cooled to 77K. Magnetic Resonance in Medicine, 2000, 43, 163-169.	3.0	95
156	Relationship between cancellous bone induced magnetic field and ultrastructure in a rat ovariectomy model. Magnetic Resonance Imaging, 2000, 18, 33-39.	1.8	12
157	Cross-sectional Study of Osteopenia with Quantitative MR Imaging and Bone Densitometry. Radiology, 2000, 217, 527-538.	7.3	154
158	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
159	Estimating voxel volume fractions of trabecular bone on the basis of magnetic resonance images acquired <i>in vivo</i> . International Journal of Imaging Systems and Technology, 1999, 10, 186-198.	4.1	48
160	<i>In vivo</i> micro-imaging using alternating navigator echoes with applications to cancellous bone structural analysis. Magnetic Resonance in Medicine, 1999, 41, 947-953.	3.0	65
161	Variable TE gradient and spin echo sequences for <i>In Vivo</i> MR microscopy of short T2 species. Magnetic Resonance in Medicine, 1998, 39, 251-258.	3.0	33
162	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

#	ARTICLE	IF	CITATIONS
163	Probability-based structural parameters from three-dimensional nuclear magnetic resonance images as predictors of trabecular bone strength. <i>Medical Physics</i> , 1997, 24, 1255-1261.	3.0	80
164	In vivo MR microscopy of the human skin. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 185-191.	3.0	90
165	Magnetic susceptibility measurement of insoluble solids by NMR: Magnetic susceptibility of bone.. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 494-500.	3.0	141
166	Fast 3D large-angle spin-echo imaging (3D FLASE). <i>Magnetic Resonance in Medicine</i> , 1996, 35, 903-910.	3.0	102
167	Method for Image-Based Measurement of the Reversible and Irreversible Contribution to the Transverse-Relaxation Rate. <i>Journal of Magnetic Resonance Series B</i> , 1996, 111, 61-69.	1.6	145
168	Mapping of the Magnetic-Field Distribution in Cancellous Bone. <i>Journal of Magnetic Resonance Series B</i> , 1996, 113, 172-176.	1.6	15
169	The Calculation of the Susceptibility-Induced Magnetic Field from 3D NMR Images with Applications to Trabecular Bone. <i>Journal of Magnetic Resonance Series B</i> , 1995, 109, 126-145.	1.6	43
170	From NMR diffraction and zeugmatography to modern imaging and beyond. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1995, 28, 87-135.	7.5	22
171	Quantitative analysis of trabecular microstructure by 400 MHz nuclear magnetic resonance imaging. <i>Journal of Bone and Mineral Research</i> , 1995, 10, 803-811.	2.8	103
172	Three-dimensional nuclear magnetic resonance microimaging of trabecular bone. <i>Journal of Bone and Mineral Research</i> , 1995, 10, 1452-1461.	2.8	94
173	On the fractal nature of trabecular structure. <i>Medical Physics</i> , 1994, 21, 1535-1540.	3.0	57
174	Determination of Background Gradients with Diffusion MR Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1994, 4, 787-797.	3.4	39
175	A Bayesian approach to subvoxel tissue classification in NMR microscopic images of trabecular bone. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 302-308.	3.0	33
176	Magnetic field distribution in models of trabecular bone. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 373-379.	3.0	88
177	The Origins and Future of Nuclear Magnetic Resonance Imaging. <i>Physics Today</i> , 1992, 45, 34-42.	0.3	28
178	In vivo Quantitative characterization of trabecular bone by NMR. <i>Magnetic Resonance in Medicine</i> , 1991, 17, 543-551.	3.0	91
179	Predictability of SNR and reader preference in clinical MR imaging. <i>Magnetic Resonance Imaging</i> , 1990, 8, 737-745.	1.8	14
180	Time-of-flight effects in MR imaging of flow. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 187-193.	3.0	57

#	ARTICLE	IF	CITATIONS
181	Magnetic resonance imaging simulator: A teaching tool for radiology. <i>Journal of Digital Imaging</i> , 1990, 3, 226-229.	2.9	16
182	Statistical Analysis of Magnetic Resonance Imaging Data in the Normal Brain (Data, Screening,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 71 (TheExpertStatisticalSystem). <i>American Journal of Mathematical and Management Sciences</i> , 1989, 9, 299-359.	0.9	8
183	A mathematical model for signal from spins flowing during the application of spin echo pulse sequences. <i>Magnetic Resonance Imaging</i> , 1988, 6, 437-461.	1.8	36
184	Cervical spine MR imaging using multislice gradient echo imaging: Comparison with cardiac gated spin echo. <i>Magnetic Resonance Imaging</i> , 1988, 6, 517-525.	1.8	14
185	SAR reduced pulse sequences. <i>Magnetic Resonance Imaging</i> , 1988, 6, 125-130.	1.8	14
186	Methodology for the measurement and analysis of relaxation times in proton imaging. <i>Magnetic Resonance Imaging</i> , 1987, 5, 209-220.	1.8	94
187	Chemical shift-induced amplitude modulations in images obtained with gradient refocusing. <i>Magnetic Resonance Imaging</i> , 1987, 5, 157-158.	1.8	89
188	High-speed slice-interleaved multiple gradient-echo imaging. <i>Magnetic Resonance Imaging</i> , 1987, 5, 552-553.	1.8	1
189	Reproducibility of relaxation and spin-density parameters in phantoms and the human brain measured by MR imaging at 1.5T. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 649-662.	3.0	74
190	CSF signal enhancement in short TR gradient echo images. <i>Magnetic Resonance Imaging</i> , 1986, 4, 465-467.	1.8	17
191	MR Imaging of Venous and Arterial Flow by a Selective Saturation-Recovery Spin Echo (SSRSE) Method. <i>Journal of Computer Assisted Tomography</i> , 1985, 9, 537-545.	0.9	66
192	Quantification of Contrast in Clinical MR Brain Imaging at High Magnetic Field. <i>Investigative Radiology</i> , 1985, 20, 360-369.	6.2	31
193	Mechanisms of Contrast in NMR Imaging. <i>Journal of Computer Assisted Tomography</i> , 1984, 8, 369-380.	0.9	111
194	NMR determination of site-specific deuterium isotope effects. <i>Journal of the American Chemical Society</i> , 1982, 104, 4492-4494.	13.7	28
195	Chemistry of ambergris. 1. A short synthesis of (.+.-).delta.-ambrinol. <i>Journal of Organic Chemistry</i> , 1982, 47, 4786-4789.	3.2	9
196	Deuterium-induced ¹³ C nuclear magnetic resonance isotope shifts and ¹³ C ¹ 2H couplings for signal assignments and determination of deuteration site in cyclooctanone. <i>Magnetic Resonance in Chemistry</i> , 1981, 17, 299-300.	0.7	6
197	Nuclear Magnetic Resonance of the Less Common Quadrupolar Nuclei. <i>Annual Reports on NMR Spectroscopy</i> , 1979, 9, 125-219.	1.5	18
198	¹³ C Spectral assignment and spin-lattice relaxation in medium-sized molecules. <i>Human Development</i> , 1974, 6, 139-151.	0.8	22

#	ARTICLE	IF	CITATIONS
199	¹³ C NMR low temperature study of the rotation around the chromium–arene bond. <i>Journal of Organometallic Chemistry</i> , 1974, 73, 327-330.	1.8	37
200	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. <i>Journal of Organic Chemistry</i> , 1973, 38, 3618-3622.	3.2	30
201	¹³ C magnetic resonance of some cis and trans substituted ethylene phosphines. <i>Tetrahedron Letters</i> , 1972, 13, 1559-1562.	1.4	3
202	Impact of supervised exercise on skeletal muscle blood flow and vascular function measured with MRI in patients with peripheral artery disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 0, , .	3.2	3