Martin Meyerspeer

List of Publications by Year
in descending order

39 papers	2,042 citations	304743 22 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	2795 citing authors

#	Article	IF	Citations
1	Phosphorus-31 MR Spectroscopy in Skeletal Muscle In Vivo. , 2022, , 1-10.		0
2	Interleaved and simultaneous multiâ€nuclear magnetic resonance in vivo. Review of principles, applications and potential. NMR in Biomedicine, 2022, 35, e4735.	2.8	11
3	Motionâ€corrected <scp>²³Na MRI</scp> of the human brain using interleaved <scp>¹H 3D</scp> navigator images. Magnetic Resonance in Medicine, 2022, 88, 309-321.	3.0	7
4	Terminology and concepts for the characterization of in vivo MR spectroscopy methods and MR spectra: Background and experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4347.	2.8	69
5	Repeatability of multinuclear interleaved acquisitions with nuclear Overhauser enhancement effect in dynamic experiments in the calf muscle at 3T. Magnetic Resonance in Medicine, 2021, 86, 115-130.	3.0	6
6	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4484.	2.8	144
7	Standard MRI-based attenuation correction for PET/MRI phantoms: a novel concept using MRI-visible polymer. EJNMMI Physics, 2021, 8, 18.	2.7	8
8	Investigating the effect of trigger delay on cardiac 31P MRS signals. Scientific Reports, 2021, 11, 9268.	3.3	6
9	³¹P magnetic resonance spectroscopy in skeletal muscle: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4246.	2.8	81
10	3D localized lactate detection in muscle tissue using doubleâ€quantum filtered 1 H MRS with adiabatic refocusing pulses at 7ÂT. Magnetic Resonance in Medicine, 2021, , .	3.0	2
11	Interleaved ³¹P MRS/¹H ASL for analysis of metabolic and functional heterogeneity along human lower leg muscles at 7T. Magnetic Resonance in Medicine, 2020, 83, 1909-1919.	3.0	20
12	Dynamic multivoxelâ€localized ³¹P MRS during plantar flexion exercise with variable knee angle. NMR in Biomedicine, 2018, 31, e3905.	2.8	13
13	Pros and cons of ultra-high-field MRI/MRS for human application. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 109, 1-50.	7.5	331
14	Proton-decoupled carbon magnetic resonance spectroscopy in human calf muscles at 7 T using a multi-channel radiofrequency coil. Scientific Reports, 2018, 8, 6211.	3.3	10
15	Interleaved multivoxel ³¹P MR spectroscopy. Magnetic Resonance in Medicine, 2017, 77, 921-927.	3.0	16
16	Dynamic PCr and pH imaging of human calf muscles during exercise and recovery using ³¹P gradientâ€Echo MRI at 7 Tesla. Magnetic Resonance in Medicine, 2016, 75, 2324-2331.	3.0	31
17	Skeletal muscle ATP synthesis and cellular H+ handling measured by localized 31P-MRS during exercise and recovery. Scientific Reports, 2016, 6, 32037.	3.3	33
18	Simultaneous and interleaved acquisition of <scp>NMR</scp> signals from different nuclei with a clinical <scp>MRI</scp> scanner. Magnetic Resonance in Medicine, 2016, 76, 1636-1641.	3.0	29

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19	Dynamic ³¹Pâ€“MRSI using spiral spectroscopic imaging can map mitochondrial capacity in muscles of the human calf during plantar flexion exercise at 7ÂT. NMR in Biomedicine, 2016, 29, 1825-1834.	2.8	38
20	Simultaneous and interleaved acquisition of NMR signals from different nuclei with a clinical MRI scanner. Magnetic Resonance in Medicine, 2016, 76, spcone-spcone.	3.0	1
21	A formâ€fitted three channel ³¹P, two channel ¹H transceiver coil array for calf muscle studies at 7 <scp>T</scp>. Magnetic Resonance in Medicine, 2015, 73, 2376-2389.	3.0	40
22	Localized semi-LASER dynamic 31P magnetic resonance spectroscopy of the soleus during and following exercise at 7ÂT. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 493-501.	2.0	23
23	Dynamic ASL and T2* -weighted MRI in exercising calf muscle at 7 T: A feasibility study. Magnetic Resonance in Medicine, 2015, 73, 1190-1195.	3.0	39
24	A doubleâ€quadrature radiofrequency coil design for protonâ€decoupled carbonâ€13 magnetic resonance spectroscopy in humans at 7T. Magnetic Resonance in Medicine, 2015, 73, 894-900.	3.0	18
25	An improved trap design for decoupling multinuclear RF coils. Magnetic Resonance in Medicine, 2014, 72, 584-590.	3.0	51
26	Depthâ€resolved surface coil MRS (DRESS)â€localized dynamic ³¹Pâ€MRS of the exercising human gastrocnemius muscle at 7 T. NMR in Biomedicine, 2014, 27, 1346-1352.	2.8	35
27	Exercising calf muscle changes correlate with pH, PCr recovery and maximum oxidative phosphorylation. NMR in Biomedicine, 2014, 27, 553-560.	2.8	31
28	Intramuscular distribution of botulinum toxinâ€”Visualized by MRI. Journal of the Neurological Sciences, 2014, 344, 76-79.	0.6	20
29	Comparing localized and nonlocalized dynamic ³¹P magnetic resonance spectroscopy in exercising muscle at 7T. Magnetic Resonance in Medicine, 2012, 68, 1713-1723.	3.0	55
30	Semi-LASER localized dynamic³¹P magnetic resonance spectroscopy in exercising muscle at ultra-high magnetic field. Magnetic Resonance in Medicine, 2011, 65, 1207-1215.	3.0	39
31	Windows on the Human Body â€“ in Vivo High-Field Magnetic Resonance Research and Applications in Medicine and Psychology. Sensors, 2010, 10, 5724-5757.	3.8	12
32	Non-invasive assessment of hepatic fat accumulation in chronic hepatitis C by 1H magnetic resonance spectroscopy. European Journal of Radiology, 2010, 74, e60-e66.	2.6	50
33	Impaired Mitochondrial Function and Insulin Resistance of Skeletal Muscle in Mitochondrial Diabetes. Diabetes Care, 2009, 32, 677-679.	8.6	64
34	Effects of functional electrical stimulation in denervated thigh muscles of paraplegic patients mapped with T 2 imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2008, 21, 219-226.	2.0	13
35	Functional Electrical Stimulation of Longâ€term Denervated, Degenerated Human Skeletal Muscle: Estimating Activation Using T2â€Parameter Magnetic Resonance Imaging Methods. Artificial Organs, 2008, 32, 604-608.	1.9	16
36	Absolute quantification of phosphorus metabolite concentrations in human muscle in vivo by ³¹P MRS: a quantitative review. NMR in Biomedicine, 2007, 20, 555-565.	2.8	256

#	Article	IF	Citations
37	Direct noninvasive quantification of lactate and high energy phosphates simultaneously in exercising human skeletal muscle by localized magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2007, 57, 654-660.	3.0	39
38	Relaxation times of31P-metabolites in human calf muscle at 3 T. Magnetic Resonance in Medicine, 2003, 49, 620-625.	3.0	47
39	Mechanism of Amino Acid-Induced Skeletal Muscle Insulin Resistance in Humans. Diabetes, 2002, 51, 599-605.	0.6	338