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	Mechanism of Amino Acid-Induced Skeletal Muscle Insulin Resistance in Humans. Diabetes, 2002, 51, 599-605.	0.6	338
2	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
3	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
4	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4484.	2.8	144
5	³¹P magnetic resonance spectroscopy in skeletal muscle: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4246.	2.8	81
6	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
7	Impaired Mitochondrial Function and Insulin Resistance of Skeletal Muscle in Mitochondrial Diabetes. Diabetes Care, 2009, 32, 677-679.	8.6	64
8	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
9	An improved trap design for decoupling multinuclear RF coils. Magnetic Resonance in Medicine, 2014, 72, 584-590.	3.0	51
10	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
11	Relaxation times of31P-metabolites in human calf muscle at 3 T. Magnetic Resonance in Medicine, 2003, 49, 620-625.	3.0	47
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Exercising calf muscle changes correlate with pH, PCr recovery and maximum oxidative phosphorylation. NMR in Biomedicine, 2014, 27, 553-560.	2.8	31
20	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
21	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
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	Intramuscular distribution of botulinum toxinâ€"Visualized by MRI. Journal of the Neurological Sciences, 2014, 344, 76-79.	0.6	20
24	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
25	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
26	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
27	Interleaved multivoxel ³¹P MR spectroscopy. Magnetic Resonance in Medicine, 2017, 77, 921-927.	3.0	16
28	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
29	Dynamic multivoxelâ€localized ³¹P MRS during plantar flexion exercise with variable knee angle. NMR in Biomedicine, 2018, 31, e3905.	2.8	13
30	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
31	Interleaved and simultaneous multiâ€nuclear magnetic resonance in vivo. Review of principles, applications and potential. NMR in Biomedicine, 2022, 35, e4735.	2.8	11
32	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
33	Standard MRI-based attenuation correction for PET/MRI phantoms: a novel concept using MRI-visible polymer. EJNMMI Physics, 2021, 8, 18.	2.7	8
34	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
35	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
36	Investigating the effect of trigger delay on cardiac 31P MRS signals. Scientific Reports, 2021, 11, 9268.	3.3	6

#	Article	IF	Citations
37	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
38	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
39	Phosphorus-31 MR Spectroscopy in Skeletal Muscle In Vivo. , 2022, , 1-10.		0