Marek Chmelik

List of Publications by Year
in descending order

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51	2,211	218677	223800
papers	citations	26 h-index	46 g-index

52	52	52	2760
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Muscle Mitochondrial ATP Synthesis and Glucose Transport/Phosphorylation in Type 2 Diabetes. PLoS Medicine, 2007, 4, e154.	8.4	216
2	Readout-segmented Echo-planar Imaging Improves the Diagnostic Performance of Diffusion-weighted MR Breast Examinations at 3.0 T. Radiology, 2012, 263, 64-76.	7.3	180
3	Liver ATP Synthesis Is Lower and Relates to Insulin Sensitivity in Patients With Type 2 Diabetes. Diabetes Care, 2011, 34, 448-453.	8.6	177
4	Abnormal hepatic energy homeostasis in type 2 diabetes. Hepatology, 2009, 50, 1079-1086.	7.3	166
5	Highâ€resolution mapping of human brain metabolites by free induction decay ¹H MRSI at 7â€‰T. NMR in Biomedicine, 2012, 25, 873-882.	2.8	91
6	In-vivo 31P-MRS of skeletal muscle and liver: A way for non-invasive assessment of their metabolism. Analytical Biochemistry, 2017, 529, 193-215.	2.4	78
7	Metabolic changes in the normal ageing brain: Consistent findings from short and long echo time proton spectroscopy. European Journal of Radiology, 2008, 68, 320-327.	2.6	76
8	Short-Term Exercise Training Does Not Stimulate Skeletal Muscle ATP Synthesis in Relatives of Humans With Type 2 Diabetes. Diabetes, 2009, 58, 1333-1341.	0.6	62
9	Mapping of brain macromolecules and their use for spectral processing of 1 H-MRSI data with an ultra-short acquisition delay at 7 T. NeuroImage, 2015, 121, 126-135.	4.2	62
10	Quantitative ATP synthesis in human liver measured by localized ³¹P spectroscopy using the magnetization transfer experiment. NMR in Biomedicine, 2008, 21, 437-443.	2.8	61
11	Three-dimensional Proton MR Spectroscopic Imaging at 3 T for the Differentiation of Benign and Malignant Breast Lesions. Radiology, 2011, 261, 752-761.	7.3	61
12	Fatty Liver Index Predicts Further Metabolic Deteriorations in Women with Previous Gestational Diabetes. PLoS ONE, 2012, 7, e32710.	2.5	49
13	Lipid suppression via double inversion recovery with symmetric frequency sweep for robust 2Dâ€GRAPPAâ€accelerated MRSI of the brain at 7â€‰T. NMR in Biomedicine, 2015, 28, 1413-1425.	2.8	48
14	(2â€‰+â€‰1)D-CAIPIRINHA accelerated MR spectroscopic imaging of the brain at 7T. Magnetic Resonance in Medicine, 2017, 78, 429-440.	3.0	46
15	Coil combination of multichannel MRSI data at 7 T: MUSICAL. NMR in Biomedicine, 2013, 26, 1796-1805.	2.8	45
16	Impaired insulin stimulation of muscular ATP production in patients with type 1 diabetes. Journal of Internal Medicine, 2011, 269, 189-199.	6.0	42
17	Body and Liver Fat Mass Rather Than Muscle Mitochondrial Function Determine Glucose Metabolism in Women With a History of Gestational Diabetes Mellitus. Diabetes Care, 2011, 34, 430-436.	8.6	42
18	In vivo ³¹P spectroscopy by fully adiabatic extended image selected in vivo spectroscopy: A comparison between 3 T and 7 T. Magnetic Resonance in Medicine, 2011, 66, 923-930.	3.0	40

#	Article	IF	Citations
19	In vivo³¹P magnetic resonance spectroscopy of the human liver at 7â€‰T: an initial experience. NMR in Biomedicine, 2014, 27, 478-485.	2.8	38
20	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
21	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
22	Postprandial and Fasting Hepatic Glucose Fluxes in Long-Standing Type 1 Diabetes. Diabetes, 2011, 60, 1752-1758.	0.6	33
23	Interrelation of ³¹Pâ€MRS metabolism measurements in resting and exercised quadriceps muscle of overweightâ€toâ€obese sedentary individuals. NMR in Biomedicine, 2013, 26, 1714-1722.	2.8	29
24	Reduced Basal ATP Synthetic Flux of Skeletal Muscle in Patients with Previous Acromegaly. PLoS ONE, 2008, 3, e3958.	2.5	29
25	Fully adiabatic ³¹P 2Dâ€CSI with reduced chemical shift displacement error at 7 T â€” GOIAâ€1Dâ€ISIS/2Dâ€CSI. Magnetic Resonance in Medicine, 2013, 69, 1233-1244.	3.0	28
26	Time-resolved phosphorous magnetization transfer of the human calf muscle at 3T and 7T: A feasibility study. European Journal of Radiology, 2013, 82, 745-751.	2.6	28
27	Dynamic Contrast-Enhanced Magnetic Resonance Imaging of Breast Tumors at 3 and 7 T. Investigative Radiology, 2014, 49, 354-362.	6.2	27
28	Application of localized 31P MRS saturation transfer at 7 T for measurement of ATP metabolism in the liver: reproducibility and initial clinical application in patients with non-alcoholic fatty liver disease. European Radiology, 2014, 24, 1602-1609.	4.5	27
29	Ultrashort-TE stimulated echo acquisition mode (STEAM) improves the quantification of lipids and fatty acid chain unsaturation in the human liver at 7â€‰T. NMR in Biomedicine, 2015, 28, 1283-1293.	2.8	27
30	Lower Fasting Muscle Mitochondrial Activity Relates to Hepatic Steatosis in Humans. Diabetes Care, 2014, 37, 468-474.	8.6	26
31	Dynamic ³¹P MR spectroscopy of plantar flexion: Influence of ergometer design, magnetic field strength (3 and 7 T), and RFâ€coil design. Medical Physics, 2015, 42, 1678-1689.	3.0	26
32	Skeletal muscle alkaline Pi pool is decreased in overweight-to-obese sedentary subjects and relates to mitochondrial capacity and phosphodiester content. Scientific Reports, 2016, 6, 20087.	3.3	26
33	A Single Nucleotide Polymorphism Associates With the Response of Muscle ATP Synthesis to Long-Term Exercise Training in Relatives of Type 2 Diabetic Humans. Diabetes Care, 2012, 35, 350-357.	8.6	25
34	Vascular function in obese children with non-alcoholic fatty liver disease. Pediatric Obesity, 2011, 6, 120-127.	3.2	23
35	Skeletal Muscle Phosphodiester Content Relates to Body Mass and Glycemic Control. PLoS ONE, 2011, 6, e21846.	2.5	22
36	Improved spectral resolution and high reliability of in vivo 1 H MRS at 7 T allow the characterization of the effect of acute exercise on carnosine in skeletal muscle. NMR in Biomedicine, 2016, 29, 24-32.	2.8	22

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37	In vivo relaxation behavior of liver compounds at 7 tesla, measured by singleâ€voxel proton MR spectroscopy. Journal of Magnetic Resonance Imaging, 2014, 40, 1365-1374.	3.4	19
38	Phosphatidylcholine contributes to in vivo 31P MRS signal from the human liver. European Radiology, 2015, 25, 2059-2066.	4.5	19
39	Diffusion-weighted imaging of breast tumours at 3ÂTesla and 7ÂTesla: a comparison. European Radiology, 2016, 26, 1466-1473.	4.5	18
40	Oneâ€dimensional imageâ€selected in vivo spectroscopy localized phosphorus saturation transfer at 7T. Magnetic Resonance in Medicine, 2014, 72, 1509-1515.	3.0	17
41	Absolute Quantification of Phosphorâ€Containing Metabolites in the Liver Using ³¹P MRSI and Hepatic Lipid Volume Correction at 7T Suggests No Dependence on Body Mass Index or Age. Journal of Magnetic Resonance Imaging, 2019, 49, 597-607.	3.4	16
42	Flipâ€angle mapping of ³¹P coils by steadyâ€state MR spectroscopic imaging. Journal of Magnetic Resonance Imaging, 2014, 40, 391-397.	3.4	14
43	Feasibility and repeatability of localized 31 Pâ€MRS fourâ€angle saturation transfer (FAST) of the human gastrocnemius muscle using a surface coil at 7â€‰T. NMR in Biomedicine, 2016, 29, 57-65.	2.8	14
44	Gliptin therapy reduces hepatic and myocardial fat in type 2 diabetic patients. European Journal of Clinical Investigation, 2017, 47, 829-838.	3.4	11
45	Twoâ€dimensional spectroscopic imaging with combined free induction decay and longâ€TE acquisition (FID echo spectroscopic imaging, FIDESI) for the detection of intramyocellular lipids in calf muscle at 7 T. NMR in Biomedicine, 2014, 27, 980-987.	2.8	10
46	Effect of Rehabilitation on Fatigue Level in Patients with Multiple Sclerosis. Medical Science Monitor, 2018, 24, 5761-5770.	1.1	8
47	A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 163-186.	2.0	7
48	In Vivo1H MRSpectroscopy of Biliary Components of Human Gallbladder at 7T. Journal of Magnetic Resonance Imaging, 2021, 53, 98-107.	3.4	3
49	Dixon imaging-based partial volume correction improves quantification of choline detected by breast 3D-MRSI. European Radiology, 2015, 25, 830-836.	4.5	2
50	Concentration of Gallbladder Phosphatidylcholine in Cholangiopathies: A Phosphorusâ€31 Magnetic Resonance Spectroscopy Pilot Study. Journal of Magnetic Resonance Imaging, 2021, , .	3.4	2
51	Ankylosing spondylitis on unidentified individual from early modern times found in reformed church (SilickÃ¡ BrezovÃ¡, Slovakia): a case-based review. Rheumatology International, 0, , .	3.0	0