

Marek Chmelik

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,211
citations

218677

26
h-index

223800

46
g-index

52
all docs

52
docs citations

52
times ranked

2760
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 163-186.	2.0	7
2	In Vivo ¹ H MRSpectroscopy of Biliary Components of Human Gallbladder at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 98-107.	3.4	3
3	Concentration of Gallbladder Phosphatidylcholine in Cholangiopathies: A Phosphorus- ³¹ Magnetic Resonance Spectroscopy Pilot Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021, , .	3.4	2
4	Absolute Quantification of Phosphorus-Containing Metabolites in the Liver Using ³¹ P MRSI and Hepatic Lipid Volume Correction at 7T Suggests No Dependence on Body Mass Index or Age. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 597-607.	3.4	16
5	Effect of Rehabilitation on Fatigue Level in Patients with Multiple Sclerosis. <i>Medical Science Monitor</i> , 2018, 24, 5761-5770.	1.1	8
6	In-vivo ³¹ P-MRS of skeletal muscle and liver: A way for non-invasive assessment of their metabolism. <i>Analytical Biochemistry</i> , 2017, 529, 193-215.	2.4	78
7	Gliptin therapy reduces hepatic and myocardial fat in type 2 diabetic patients. <i>European Journal of Clinical Investigation</i> , 2017, 47, 829-838.	3.4	11
8	(² H+ ¹ H)-CAIPIRINHA accelerated MR spectroscopic imaging of the brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 429-440.	3.0	46
9	Skeletal muscle alkaline Pi pool is decreased in overweight-to-obese sedentary subjects and relates to mitochondrial capacity and phosphodiester content. <i>Scientific Reports</i> , 2016, 6, 20087.	3.3	26
10	Feasibility and repeatability of localized ³¹ P MRS four-angle saturation transfer (FAST) of the human gastrocnemius muscle using a surface coil at 7T. <i>NMR in Biomedicine</i> , 2016, 29, 57-65.	2.8	14
11	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. <i>NMR in Biomedicine</i> , 2016, 29, 24-32.	2.8	22
12	Dynamic ³¹ P MRSI using spiral spectroscopic imaging can map mitochondrial capacity in muscles of the human calf during plantar flexion exercise at 7T. <i>NMR in Biomedicine</i> , 2016, 29, 1825-1834.	2.8	38
13	Diffusion-weighted imaging of breast tumours at 3T and 7T: a comparison. <i>European Radiology</i> , 2016, 26, 1466-1473.	4.5	18
14	Lipid suppression via double inversion recovery with symmetric frequency sweep for robust 2D CRAPPA-accelerated MRSI of the brain at 7T. <i>NMR in Biomedicine</i> , 2015, 28, 1413-1425.	2.8	48
15	Dynamic ³¹ P MR spectroscopy of plantar flexion: Influence of ergometer design, magnetic field strength (3 and 7 T), and RF coil design. <i>Medical Physics</i> , 2015, 42, 1678-1689.	3.0	26
16	Ultrashort-TE stimulated echo acquisition mode (STEAM) improves the quantification of lipids and fatty acid chain unsaturation in the human liver at 7T. <i>NMR in Biomedicine</i> , 2015, 28, 1283-1293.	2.8	27
17	Phosphatidylcholine contributes to in vivo ³¹ P MRS signal from the human liver. <i>European Radiology</i> , 2015, 25, 2059-2066.	4.5	19
18	Dixon imaging-based partial volume correction improves quantification of choline detected by breast 3D-MRSI. <i>European Radiology</i> , 2015, 25, 830-836.	4.5	2

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19	Mapping of brain macromolecules and their use for spectral processing of ^1H -MRSI data with an ultra-short acquisition delay at 7 T. <i>NeuroImage</i> , 2015, 121, 126-135.	4.2	62
20	Depth-resolved surface coil MRS (DRESS)-localized dynamic ^{31}P -MRS of the exercising human gastrocnemius muscle at 7 T. <i>NMR in Biomedicine</i> , 2014, 27, 1346-1352.	2.8	35
21	<i>In vivo</i> ^{31}P magnetic resonance spectroscopy of the human liver at 7 T: an initial experience. <i>NMR in Biomedicine</i> , 2014, 27, 478-485.	2.8	38
22	Dynamic Contrast-Enhanced Magnetic Resonance Imaging of Breast Tumors at 3 and 7 T. <i>Investigative Radiology</i> , 2014, 49, 354-362.	6.2	27
23	Lower Fasting Muscle Mitochondrial Activity Relates to Hepatic Steatosis in Humans. <i>Diabetes Care</i> , 2014, 37, 468-474.	8.6	26
24	Flip-angle mapping of ^{31}P coils by steady-state MR spectroscopic imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 391-397.	3.4	14
25	Two-dimensional spectroscopic imaging with combined free induction decay and long-TE acquisition (FID echo spectroscopic imaging, FIDESI) for the detection of intramyocellular lipids in calf muscle at 7 T. <i>NMR in Biomedicine</i> , 2014, 27, 980-987.	2.8	10
26	Application of localized ^{31}P 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. <i>European Radiology</i> , 2014, 24, 1602-1609.	4.5	27
27	One-dimensional image-selected <i>in vivo</i> spectroscopy localized phosphorus saturation transfer at 7T. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1509-1515.	3.0	17
28	<i>In vivo</i> relaxation behavior of liver compounds at 7 tesla, measured by single-voxel proton MR spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1365-1374.	3.4	19
29	Fully adiabatic ^{31}P 2D-CSI with reduced chemical shift displacement error at 7 T "GOIA-1D-ISIS/2D-CSI". <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1233-1244.	3.0	28
30	Time-resolved phosphorous magnetization transfer of the human calf muscle at 3T and 7T: A feasibility study. <i>European Journal of Radiology</i> , 2013, 82, 745-751.	2.6	28
31	Interrelation of ^{31}P -MRS metabolism measurements in resting and exercised quadriceps muscle of overweight-to-obese sedentary individuals. <i>NMR in Biomedicine</i> , 2013, 26, 1714-1722.	2.8	29
32	Coil combination of multichannel MRSI data at 7 T: MUSICAL. <i>NMR in Biomedicine</i> , 2013, 26, 1796-1805.	2.8	45
33	Readout-segmented Echo-planar Imaging Improves the Diagnostic Performance of Diffusion-weighted MR Breast Examinations at 3.0 T. <i>Radiology</i> , 2012, 263, 64-76.	7.3	180
34	A Single Nucleotide Polymorphism Associates With the Response of Muscle ATP Synthesis to Long-Term Exercise Training in Relatives of Type 2 Diabetic Humans. <i>Diabetes Care</i> , 2012, 35, 350-357.	8.6	25
35	High-resolution mapping of human brain metabolites by free induction decay ^1H MRSI at 7 T. <i>NMR in Biomedicine</i> , 2012, 25, 873-882.	2.8	91
36	Fatty Liver Index Predicts Further Metabolic Deteriorations in Women with Previous Gestational Diabetes. <i>PLoS ONE</i> , 2012, 7, e32710.	2.5	49

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37	Skeletal Muscle Phosphodiester Content Relates to Body Mass and Glycemic Control. PLoS ONE, 2011, 6, e21846.	2.5	22
38	Impaired insulin stimulation of muscular ATP production in patients with type 1 diabetes. Journal of Internal Medicine, 2011, 269, 189-199.	6.0	42
39	Vascular function in obese children with non-alcoholic fatty liver disease. Pediatric Obesity, 2011, 6, 120-127.	3.2	23
40	In vivo ³¹ P 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
41	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
42	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
43	Postprandial and Fasting Hepatic Glucose Fluxes in Long-Standing Type 1 Diabetes. Diabetes, 2011, 60, 1752-1758.	0.6	33
44	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
45	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
46	Abnormal hepatic energy homeostasis in type 2 diabetes. Hepatology, 2009, 50, 1079-1086.	7.3	166
47	Quantitative ATP synthesis in human liver measured by localized ³¹ P spectroscopy using the magnetization transfer experiment. NMR in Biomedicine, 2008, 21, 437-443.	2.8	61
48	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
49	Reduced Basal ATP Synthetic Flux of Skeletal Muscle in Patients with Previous Acromegaly. PLoS ONE, 2008, 3, e3958.	2.5	29
50	Muscle Mitochondrial ATP Synthesis and Glucose Transport/Phosphorylation in Type 2 Diabetes. PLoS Medicine, 2007, 4, e154.	8.4	216
51	Ankylosing spondylitis on unidentified individual from early modern times found in reformed church (Silická Brezová, Slovakia): a case-based review. Rheumatology International, 0, , .	3.0	0