

# MaÅ,gorzata MarjaÅ,,ska

## List of Publications by Year in descending order

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87  
papers

4,650  
citations

81839

39  
h-index

110317

64  
g-index

94  
all docs

94  
docs citations

94  
times ranked

5964  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. <i>Radiology</i> , 2014, 270, 658-679.	3.6	524
2	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	1.9	280
3	Preprocessing, analysis and quantification in single-voxel magnetic resonance spectroscopy: experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4257.	1.6	196
4	Monitoring disease progression in transgenic mouse models of Alzheimer's disease with proton magnetic resonance spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11906-11910.	3.3	193
5	Treatment Response Assessment in IDH-Mutant Glioma Patients by Noninvasive 3D Functional Spectroscopic Mapping of 2-Hydroxyglutarate. <i>Clinical Cancer Research</i> , 2016, 22, 1632-1641.	3.2	127
6	Localized <sup>1</sup> H NMR spectroscopy in different regions of human brain <i>in vivo</i> at 7T: <sup>2</sup> relaxation times and concentrations of cerebral metabolites. <i>NMR in Biomedicine</i> , 2012, 25, 332-339.	1.6	117
7	Proton echo-planar spectroscopic imaging of J-coupled resonances in human brain at 3 and 4 Tesla. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 236-244.	1.9	115
8	Scaling laws at the nanosize: the effect of particle size and shape on the magnetism and relaxivity of iron oxide nanoparticle contrast agents. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2818.	2.9	112
9	Determination of blood longitudinal relaxation time (T1) at high magnetic field strengths. <i>Magnetic Resonance Imaging</i> , 2007, 25, 733-735.	1.0	111
10	GABA in the insula – a predictor of the neural response to interoceptive awareness. <i>NeuroImage</i> , 2014, 86, 10-18.	2.1	110
11	Regional neurochemical profiles in the human brain measured by <sup>1</sup> H MRS at 7T using local B <sub>1</sub> shimming. <i>NMR in Biomedicine</i> , 2012, 25, 152-160.	1.6	104
12	Relationship between transcranial magnetic stimulation measures of intracortical inhibition and spectroscopy measures of GABA and glutamate+glutamine. <i>Journal of Neurophysiology</i> , 2013, 109, 1343-1349.	0.9	104
13	3D GABA imaging with real-time motion correction, shim update and reacquisition of adiabatic spiral MRSI. <i>NeuroImage</i> , 2014, 103, 290-302.	2.1	100
14	In vivo <sup>13</sup> C NMR spectroscopy and metabolic modeling in the brain: a practical perspective. <i>Magnetic Resonance Imaging</i> , 2006, 24, 527-539.	1.0	98
15	Advanced single voxel <sup>1</sup> H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4236.	1.6	98
16	Contribution of macromolecules to brain <sup>1</sup> H MR spectra: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4393.	1.6	92
17	Noninvasive Detection of Presymptomatic and Progressive Neurodegeneration in a Mouse Model of Spinocerebellar Ataxia Type 1. <i>Journal of Neuroscience</i> , 2010, 30, 3831-3838.	1.7	85
18	Region-specific aging of the human brain as evidenced by neurochemical profiles measured noninvasively in the posterior cingulate cortex and the occipital lobe using <sup>1</sup> H magnetic resonance spectroscopy at 7 T. <i>Neuroscience</i> , 2017, 354, 168-177.	1.1	84

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19	In vivo <sup>13</sup> C spectroscopy in the rat brain using hyperpolarized [1- <sup>13</sup> C]pyruvate and [2- <sup>13</sup> C]pyruvate. <i>Journal of Magnetic Resonance</i> , 2010, 206, 210-218.	1.2	81
20	Glutamate Concentration in the Medial Prefrontal Cortex Predicts Resting-State Cortical-Subcortical Functional Connectivity in Humans. <i>PLoS ONE</i> , 2013, 8, e60312.	1.1	79
21	Detection of an antioxidant profile in the human brain in vivo via double editing with MEGA-PRESS. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1192-1199.	1.9	76
22	Spectral editing in <sup>1</sup> H magnetic resonance spectroscopy: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4411.	1.6	74
23	Magnetic Resonance Imaging of Alzheimer's Pathology in the Brains of Living Transgenic Mice: A New Tool in Alzheimer's Disease Research. <i>Neuroscientist</i> , 2007, 13, 38-48.	2.6	73
24	Highly specific determination of IDH status using edited in vivo magnetic resonance spectroscopy. <i>Neuro-Oncology</i> , 2018, 20, 907-916.	0.6	72
25	Negative childhood experiences alter a prefrontal-insular-motor cortical network in healthy adults: A preliminary multimodal rsfMRI-fMRI-MRS-dMRI study. <i>Human Brain Mapping</i> , 2015, 36, 4622-4637.	1.9	70
26	Multimodal assessment of primary motor cortex integrity following sport concussion in asymptomatic athletes. <i>Clinical Neurophysiology</i> , 2014, 125, 1371-1379.	0.7	69
27	Comparison of amyloid plaque contrast generated by T <sub>2</sub> -weighted, T <sub>1</sub> -weighted, and susceptibility-weighted imaging methods in transgenic mouse models of Alzheimer's disease. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1158-1164.	1.9	63
28	Magnetic resonance imaging of Alzheimer's disease. <i>European Radiology</i> , 2007, 17, 347-362.	2.3	61
29	Proton-observed carbon-edited NMR spectroscopy in strongly coupled second-order spin systems. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 250-257.	1.9	58
30	Brain dynamic neurochemical changes in dystonic patients: A magnetic resonance spectroscopy study. <i>Movement Disorders</i> , 2013, 28, 201-209.	2.2	56
31	Sequence design for magnetic resonance spectroscopic imaging of prostate cancer at 3 T. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1033-1039.	1.9	53
32	Targeting Vascular Amyloid in Arterioles of Alzheimer Disease Transgenic Mice With Amyloid $\beta$ Protein Antibody-Coated Nanoparticles. <i>Journal of Neuropathology and Experimental Neurology</i> , 2011, 70, 653-661.	0.9	52
33	Cystathionine as a marker for 1p/19q codeleted gliomas by in vivo magnetic resonance spectroscopy. <i>Neuro-Oncology</i> , 2019, 21, 765-774.	0.6	51
34	Fe- and Ln-DOTA-F12 Are Effective Paramagnetic Fluorine Contrast Agents for MRI in Water and Blood. <i>Inorganic Chemistry</i> , 2017, 56, 1546-1557.	1.9	49
35	Faster Metabolite <sup>1</sup> H Transverse Relaxation in the Elder Human Brain. <i>PLoS ONE</i> , 2013, 8, e77572.	1.1	47
36	Isotropic-liquid crystalline phase diagram of a CdSe nanorod solution. <i>Journal of Chemical Physics</i> , 2004, 120, 1149-1152.	1.2	45

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37	1H MRS detection of glycine residue of reduced glutathione in vivo. Journal of Magnetic Resonance, 2010, 202, 259-266.	1.2	45
38	Differences in apparent diffusion coefficients of brain metabolites between grey and white matter in the human brain measured at 7 T. Magnetic Resonance in Medicine, 2012, 67, 1203-1209.	1.9	45
39	Ultra-High Field Proton MR Spectroscopy in Early-Stage Amyotrophic Lateral Sclerosis. Neurochemical Research, 2017, 42, 1833-1844.	1.6	44
40	In vivo 1H magnetic resonance spectroscopy in young-adult daily marijuana users. NeuroImage: Clinical, 2013, 2, 581-589.	1.4	42
41	Altered macromolecular pattern and content in the aging human brain. NMR in Biomedicine, 2018, 31, e3865.	1.6	34
42	Measurement of transverse relaxation times of <sup>1</sup> H-coupled metabolites in the human visual cortex at 4 T. Magnetic Resonance in Medicine, 2012, 67, 891-897.	1.9	33
43	Sensitivity and specificity of human brain glutathione concentrations measured using short <sup>1</sup> H MRS at 7 T. NMR in Biomedicine, 2016, 29, 600-606.	1.6	33
44	Demonstration of quantum logic gates in liquid crystal nuclear magnetic resonance. Journal of Chemical Physics, 2000, 112, 5095-5099.	1.2	32
45	In vivo proton MRS to quantify anesthetic effects of pentobarbital on cerebral metabolism and brain activity in rat. Magnetic Resonance in Medicine, 2009, 62, 1385-1393.	1.9	32
46	Magnetic Resonance Spectroscopy discriminates the response to microglial stimulation of wild type and Alzheimer's disease models. Scientific Reports, 2016, 6, 19880.	1.6	32
47	Results and interpretation of a fitting challenge for MR spectroscopy set up by the MRS study group of ISMRM. Magnetic Resonance in Medicine, 2022, 87, 11-32.	1.9	30
48	MEGA-PRESS of GABA+: Influences of acquisition parameters. NMR in Biomedicine, 2021, 34, e4199.	1.6	29
49	Distinctive Neurochemistry in Alzheimer's Disease via 7 T In Vivo Magnetic Resonance Spectroscopy. Journal of Alzheimer's Disease, 2019, 68, 559-569.	1.2	25
50	Influence of fitting approaches in LCModel on MRS quantification focusing on age-specific macromolecules and the spline baseline. NMR in Biomedicine, 2021, 34, e4197.	1.6	25
51	Single-voxel <sup>1</sup> H spectroscopy in the human hippocampus at 3 T using the LASER sequence: characterization of neurochemical profile and reproducibility. NMR in Biomedicine, 2015, 28, 1209-1217.	1.6	24
52	Effect of Carr-Purcell refocusing pulse trains on transverse relaxation times of metabolites in rat brain at 9.4 Tesla. Magnetic Resonance in Medicine, 2015, 73, 13-20.	1.9	22
53	Neurochemical correlates of functional decline in amyotrophic lateral sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 294-301.	0.9	21
54	Treatment effects in a transgenic mouse model of Alzheimer's disease: A magnetic resonance spectroscopy study after passive immunization. Neuroscience, 2014, 259, 94-100.	1.1	17

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55	Apparent diffusion coefficients of the five major metabolites measured in the human brain in vivo at 3T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2896-2901.	1.9	17
56	Brain metabolism under different anesthetic conditions using hyperpolarized [ $^{13}\text{C}$ ]pyruvate and [ $^{2}\text{H}$ ]pyruvate. <i>NMR in Biomedicine</i> , 2018, 31, e4012.	1.6	17
57	A Magnetoplasmonic Imaging Agent for Copper(I) with Dual Response by MRI and Dark Field Microscopy. <i>ACS Nano</i> , 2013, 7, 5842-5849.	7.3	16
58	Transverse relaxation time constants of the five major metabolites in human brain measured in vivo using LASER and PRESS at 3 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1260-1265.	1.9	16
59	Inclusion Complexes Oriented in Thermotropic Liquid-Crystalline Solvents Studied with Carbon-13 NMR. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12558-12561.	1.2	15
60	A responsive particulate MRI contrast agent for copper(i): a cautionary tale. <i>Dalton Transactions</i> , 2012, 41, 8039.	1.6	15
61	The effects of bi-hemispheric M1-M1 transcranial direct current stimulation on primary motor cortex neurophysiology and metabolite concentration. <i>Restorative Neurology and Neuroscience</i> , 2016, 34, 587-602.	0.4	15
62	Uncovering hidden in vivo resonances using editing based on localized TOCSY. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 783-789.	1.9	14
63	In vivo diffusion-weighted MRS using semi-LASER in the human brain at 3T: Methodological aspects and clinical feasibility. <i>NMR in Biomedicine</i> , 2021, 34, e4206.	1.6	14
64	Multinuclear NMR investigation of probe construction materials at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 936-938.	1.9	13
65	The Use of Magnetic Resonance Spectroscopy as a Tool for the Measurement of Bi-hemispheric Transcranial Electric Stimulation Effects on Primary Motor Cortex Metabolism. <i>Journal of Visualized Experiments</i> , 2014, , e51631.	0.2	13
66	Editing through multiple bonds: Threonine detection. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 245-251.	1.9	11
67	Magnetic resonance spectroscopy of isocitrate dehydrogenase mutated gliomas: current knowledge on the neurochemical profile. <i>Current Opinion in Neurology</i> , 2020, 33, 413-421.	1.8	11
68	Changes in the intracellular microenvironment in the aging human brain. <i>Neurobiology of Aging</i> , 2020, 95, 168-175.	1.5	11
69	Influence of foot orientation on the appearance and quantification of $^1\text{H}$ magnetic resonance muscle spectra obtained from the soleus and the vastus lateralis. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1731-1737.	1.9	10
70	Measurement of Arterial Input Function in Hyperpolarized $^{13}\text{C}$ Studies. <i>Applied Magnetic Resonance</i> , 2012, 43, 289-297.	0.6	9
71	Magnetic resonance spectroscopy in the rodent brain: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4325.	1.6	9
72	Identification of a pyruvate-to-lactate signature in pancreatic intraductal papillary mucinous neoplasms. <i>Pancreatology</i> , 2018, 18, 46-53.	0.5	9

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73	Measurement of dipolar couplings in partially oriented molecules by local field NMR spectroscopy with low-power decoupling. <i>Journal of Magnetic Resonance</i> , 2002, 158, 52-59.	1.2	8
74	Combined diffusion tensor imaging and magnetic resonance spectroscopy to predict neurological outcome before transjugular intrahepatic portosystemic shunt. <i>Alimentary Pharmacology and Therapeutics</i> , 2018, 48, 863-874.	1.9	8
75	In vivo <sup>1</sup> H MRS detection of cystathionine in human brain tumors. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1259-1265.	1.9	8
76	On the relationship between GABA+ and glutamate across the brain. <i>NeuroImage</i> , 2022, 257, 119273.	2.1	8
77	Selective excitation in dipole coupled systems. <i>Chemical Physics Letters</i> , 2002, 357, 241-248.	1.2	7
78	NMR studies of chloroform@cryptophane-A and chloroform@bis-cryptophane inclusion complexes oriented in thermotropic liquid crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 104-112.	1.5	6
79	<sup>1</sup> H MRS in the rat brain under pentobarbital anesthesia: Accurate quantification of in vivo spectra in the presence of propylene glycol. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 631-635.	1.9	6
80	Lower cortical gamma-aminobutyric acid level contributes to increased connectivity in sensory-motor regions in progressive MS. <i>Multiple Sclerosis and Related Disorders</i> , 2020, 43, 102183.	0.9	4
81	Quantification of <sup>+</sup> NAD <sup>+</sup> in human brain with <sup>1</sup> H MR spectroscopy at 3 T: Comparison of three localization techniques with different handling of water magnetization. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1027-1038.	1.9	4
82	In Vivo <sup>13</sup> C Magnetic Resonance Spectroscopy and Metabolic Modeling: Methodology. <i>Advances in Neurobiology</i> , 2012, , 181-220.	1.3	3
83	Gradient rotating outer volume excitation (GROOVE): A novel method for single-shot two-dimensional outer volume suppression. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 139-149.	1.9	2
84	In vivo <sup>1</sup> H MR spectroscopy with J-refocusing. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2957-2965.	1.9	2
85	The influence of cystathionine on neurochemical quantification in brain tumor in vivo MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 537-545.	1.9	2
86	Broadband selective excitation radiofrequency pulses for optimized localization in vivo. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2111-2119.	1.9	2
87	Automated Acquisition Planning for Magnetic Resonance Spectroscopy in Brain Cancer. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 730-739.	1.0	0