

Martin Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

3,337
citations

201575

27
h-index

161767

54
g-index

72
all docs

72
docs citations

72
times ranked

4558
citing authors

#	ARTICLE	IF	CITATIONS
1	Current practice in the use of MEGA-PRESS spectroscopy for the detection of GABA. <i>NeuroImage</i> , 2014, 86, 43-52.	2.1	448
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	A constrained least-squares approach to the automated quantitation of in vivo ¹ H magnetic resonance spectroscopy data. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1-12.	1.9	273
4	Nicotinamide Riboside Augments the Aged Human Skeletal Muscle NAD ⁺ Metabolome and Induces Transcriptomic and Anti-inflammatory Signatures. <i>Cell Reports</i> , 2019, 28, 1717-1728.e6.	2.9	253
5	Preprocessing, analysis and quantification in single-voxel magnetic resonance spectroscopy: experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4257.	1.6	196
6	Multi-centre reproducibility of diffusion MRI parameters for clinical sequences in the brain. <i>NMR in Biomedicine</i> , 2015, 28, 468-485.	1.6	178
7	Identification and characterisation of childhood cerebellar tumours by <i>in vivo</i> proton MRS. <i>NMR in Biomedicine</i> , 2008, 21, 908-918.	1.6	106
8	Advanced single voxel ¹ H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4236.	1.6	98
9	Contribution of macromolecules to brain ¹ H MR spectra: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4393.	1.6	92
10	An algorithm for the automated quantitation of metabolites in in vitro NMR signals. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1211-1219.	1.9	79
11	Ex-vivo HRMAS of adult brain tumours: metabolite quantification and assignment of tumour biomarkers. <i>Molecular Cancer</i> , 2010, 9, 66.	7.9	70
12	Accurate classification of childhood brain tumours by in vivo ¹ H MRS – A multi-centre study. <i>European Journal of Cancer</i> , 2013, 49, 658-667.	1.3	70
13	Terminology and concepts for the characterization of in vivo MR spectroscopy methods and MR spectra: Background and experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4347.	1.6	69
14	Non-invasive detection of glycine as a biomarker of malignancy in childhood brain tumours using <i>in-vivo</i> ¹ H MRS at 1.5 Tesla confirmed by <i>ex-vivo</i> high-resolution magic-angle spinning NMR. <i>NMR in Biomedicine</i> , 2010, 23, 80-87.	1.6	63
15	High resolution magic angle spinning ¹ H NMR of childhood brain and nervous system tumours. <i>Molecular Cancer</i> , 2009, 8, 6.	7.9	55
16	Magnetic resonance spectroscopy metabolite profiles predict survival in paediatric brain tumours. <i>European Journal of Cancer</i> , 2013, 49, 457-464.	1.3	53
17	A quantitative comparison of metabolite signals as detected by <i>in vivo</i> MRS with <i>ex vivo</i> ¹ H HRMAS for childhood brain tumours. <i>NMR in Biomedicine</i> , 2009, 22, 213-219.	1.6	48
18	Recapitulation of Tumor Heterogeneity and Molecular Signatures in a 3D Brain Cancer Model with Decreased Sensitivity to Histone Deacetylase Inhibition. <i>PLoS ONE</i> , 2012, 7, e52335.	1.1	46

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19	In Vitro Metabonomic Study Detects Increases in UDP-GlcNAc and UDP-GalNAc, as Early Phase Markers of Cisplatin Treatment Response in Brain Tumor Cells. <i>Journal of Proteome Research</i> , 2011, 10, 3493-3500.	1.8	43
20	Noninvasive Detection of Glutamate Predicts Survival in Pediatric Medulloblastoma. <i>Clinical Cancer Research</i> , 2014, 20, 4532-4539.	3.2	37
21	¹ H magnetic resonance spectroscopy metabolites as biomarkers for cell cycle arrest and cell death in rat glioma cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 990-1001.	1.2	35
22	MR spectroscopy-based brain metabolite profiling in propionic acidaemia: metabolic changes in the basal ganglia during acute decompensation and effect of liver transplantation. <i>Orphanet Journal of Rare Diseases</i> , 2011, 6, 19.	1.2	34
23	Increased unsaturation of lipids in cytoplasmic lipid droplets in DAOY cancer cells in response to cisplatin treatment. <i>Metabolomics</i> , 2013, 9, 722-729.	1.4	33
24	Multiclass imbalance learning: Improving classification of pediatric brain tumors from magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2114-2124.	1.9	33
25	Quantitative Brain MRI in Congenital Adrenal Hyperplasia: In Vivo Assessment of the Cognitive and Structural Impact of Steroid Hormones. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 1330-1341.	1.8	32
26	Clinical protocols for ³¹ P MRS of the brain and their use in evaluating optic pathway gliomas in children. <i>European Journal of Radiology</i> , 2014, 83, e106-e112.	1.2	30
27	Influence of macromolecule baseline on ¹ H MR spectroscopic imaging reproducibility. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 34-43.	1.9	30
28	Results and interpretation of a fitting challenge for MR spectroscopy set up by the MRS study group of ISMRM. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 11-32.	1.9	30
29	Application of pattern recognition techniques for classification of pediatric brain tumors by in vivo ³ T ¹ H MR spectroscopy: A multicenter study. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2359-2366.	1.9	29
30	Adaptive baseline fitting for MR spectroscopy analysis. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 13-29.	1.9	28
31	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021, 241, 118430.	2.1	28
32	Lipid biomarkers of glioma cell growth arrest and cell death detected by ¹ H magic angle spinning MRS. <i>NMR in Biomedicine</i> , 2012, 25, 1253-1262.	1.6	27
33	In vivo Glx and Glu measurements from GABA-edited MRS at 3 T. <i>NMR in Biomedicine</i> , 2021, 34, e4245.	1.6	26
34	¹ H MRS identifies specific metabolite profiles associated with MYCN-amplified and non-amplified tumour subtypes of neuroblastoma cell lines. <i>NMR in Biomedicine</i> , 2007, 20, 692-700.	1.6	25
35	Neural changes associated with cerebellar tDCS studied using MR spectroscopy. <i>Experimental Brain Research</i> , 2018, 236, 997-1006.	0.7	25
36	Tissue metabolite profiles for the characterisation of paediatric cerebellar tumours. <i>Scientific Reports</i> , 2018, 8, 11992.	1.6	24

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37	1H nuclear magnetic resonance spectroscopy characterisation of metabolic phenotypes in the medulloblastoma of the SMO transgenic mice. <i>British Journal of Cancer</i> , 2010, 103, 1297-1304.	2.9	23
38	Metabolic profiling of the three neural derived embryonal pediatric tumors retinoblastoma, neuroblastoma and medulloblastoma, identifies distinct metabolic profiles. <i>Oncotarget</i> , 2018, 9, 11336-11351.	0.8	22
39	Diagnosing relapse in children's brain tumors using metabolite profiles. <i>Neuro-Oncology</i> , 2014, 16, 156-164.	0.6	20
40	Metabolite profiling in retinoblastoma identifies novel clinicopathological subgroups. <i>British Journal of Cancer</i> , 2015, 113, 1216-1224.	2.9	20
41	Comparison of seven modelling algorithms for ^1H -aminobutyric acid edited proton magnetic resonance spectroscopy. <i>NMR in Biomedicine</i> , 2022, 35, e4702.	1.6	20
42	Robust retrospective frequency and phase correction for single-voxel MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2878-2886.	1.9	19
43	spant: An R package for magnetic resonance spectroscopy analysis. <i>Journal of Open Source Software</i> , 2021, 6, 3646.	2.0	19
44	A comparative study of feature extraction and blind source separation of independent component analysis (ICA) on childhood brain tumour ^1H magnetic resonance spectra. <i>NMR in Biomedicine</i> , 2009, 22, 809-818.	1.6	16
45	MRS water resonance frequency in childhood brain tumours: a novel potential biomarker of temperature and tumour environment. <i>NMR in Biomedicine</i> , 2014, 27, 1222-1229.	1.6	16
46	A comparison between simulated and experimental basis sets for assessing short TE ^1H in vivo MRS data at 1.5 T. <i>NMR in Biomedicine</i> , 2010, 23, 1117-1126.	1.6	14
47	Classification of single-voxel ^1H spectra of childhood cerebellar tumors using lmodel and whole tissue representations. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1-6.	1.9	14
48	Evaluation of the added value of ^1H -magnetic resonance spectroscopy for the diagnosis of pediatric brain lesions in clinical practice. <i>Neuro-Oncology Practice</i> , 2018, 5, 18-27.	1.0	12
49	Altered hippocampal functional connectivity patterns in patients with cognitive impairments following ischaemic stroke: A resting-state fMRI study. <i>NeuroImage: Clinical</i> , 2021, 32, 102742.	1.4	11
50	The size of cytoplasmic lipid droplets varies between tumour cell lines of the nervous system: a ^1H NMR spectroscopy study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 479-485.	1.1	9
51	Diagnostic accuracy and added value of qualitative radiological review of ^1H -magnetic resonance spectroscopy in evaluation of childhood brain tumors. <i>Neuro-Oncology Practice</i> , 2019, 6, 428-437.	1.0	8
52	Metabolite selection for machine learning in childhood brain tumour classification. <i>NMR in Biomedicine</i> , 2022, 35, e4673.	1.6	7
53	A hybrid method of application of independent component analysis to ^1H in vivo ^1H MR spectra of childhood brain tumours. <i>NMR in Biomedicine</i> , 2012, 25, 594-606.	1.6	6
54	Glycine: a non-invasive imaging biomarker to aid magnetic resonance spectroscopy in the prediction of survival in paediatric brain tumours. <i>Oncotarget</i> , 2018, 9, 18858-18868.	0.8	6

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55	Community-Organized Resources for Reproducible MRS Data Analysis. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1959-1961.	1.9	6
56	The lipid composition of isolated cytoplasmic lipid droplets from a human cancer cell line, BE(2)M17. <i>Molecular BioSystems</i> , 2012, 8, 1694.	2.9	5
57	Metabolite Levels in Paediatric Brain Tumours Correlate with Histological Features. <i>Pathobiology</i> , 2018, 85, 157-168.	1.9	5
58	Ex vivo metabolite profiling of paediatric central nervous system tumours reveals prognostic markers. <i>Scientific Reports</i> , 2019, 9, 10473.	1.6	5
59	Variation of T ₂ relaxation times in pediatric brain tumors and their effect on metabolite quantification. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 195-203.	1.9	4
60	Sensitivity encoding for fast ¹ H MR spectroscopic imaging water reference acquisition. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2081-2086.	1.9	3
61	Evidence for distinct neuro-metabolic phenotypes in humans. <i>NeuroImage</i> , 2022, 249, 118902.	2.1	2
62	Quantitative diffusion characteristics of the human brain depend on MRI sequence parameters. <i>Neuroradiology</i> , 2002, 44, 586-591.	1.1	1
63	Cytoplasmic lipid droplets in nervous system tumour cell lines: Size and lipid species as analysed by ¹ H nuclear magnetic resonance spectroscopy. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 9-19.	1.2	1
64	Short-acquisition-time JPRESS and its application to paediatric brain tumours. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 247-258.	1.1	1
65	TB-21 METABOLISM AS A PREDICTOR OF SURVIVAL IN CHILDREN'S BRAIN TUMOURS. <i>Neuro-Oncology</i> , 2016, 18, iii172.3-iii172.	0.6	0
66	PO033-Do mesiotemporal metabolites explain temporal lobe function after stroke?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, A20.4-A21.	0.9	0
67	Metabolite Profile Differences in Childhood Brain Tumors: ¹ H Magic Angle Spinning NMR Spectroscopy. <i>Pediatric Cancer</i> , 2012, , 107-116.	0.0	0