Martin Wilson

List of Publications by Year in descending order

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	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
2	Comparison of seven modelling algorithms for γ‐aminobutyric acid–edited proton magnetic resonance spectroscopy. NMR in Biomedicine, 2022, 35, e4702.	1.6	20
3	Metabolite selection for machine learning in childhood brain tumour classification. NMR in Biomedicine, 2022, 35, e4673.	1.6	7
4	Evidence for distinct neuro-metabolic phenotypes in humans. NeuroImage, 2022, 249, 118902.	2.1	2
5	Community‐Organized Resources for Reproducible <scp>MRS</scp> Data Analysis. Magnetic Resonance in Medicine, 2022, 88, 1959-1961.	1.9	6
6	Preprocessing, analysis and quantification in single‐voxel magnetic resonance spectroscopy: experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4257.	1.6	196
7	Contribution of macromolecules to brain ^{1}H MR spectra: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4393.	1.6	92
8	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.	1.6	69
9	Adaptive baseline fitting for MR spectroscopy analysis. Magnetic Resonance in Medicine, 2021, 85, 13-29.	1.9	28
10	Advanced single voxel ^{1}H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4236.	1.6	98
11	Altered hippocampal functional connectivity patterns in patients with cognitive impairments following ischaemic stroke: A resting-state fMRI study. NeuroImage: Clinical, 2021, 32, 102742.	1.4	11
12	Frequency drift in MR spectroscopy at 3T. NeuroImage, 2021, 241, 118430.	2.1	28
13	In vivo Glx and Glu measurements from GABA‐edited MRS at 3 T. NMR in Biomedicine, 2021, 34, e4245.	1.6	26
14	spant: An R package for magnetic resonance spectroscopy analysis. Journal of Open Source Software, 2021, 6, 3646.	2.0	19
15	Nicotinamide Riboside Augments the Aged Human Skeletal Muscle NAD+ Metabolome and Induces Transcriptomic and Anti-inflammatory Signatures. Cell Reports, 2019, 28, 1717-1728.e6.	2.9	253
16	Ex vivo metabolite profiling of paediatric central nervous system tumours reveals prognostic markers. Scientific Reports, 2019, 9, 10473.	1.6	5
17	Diagnostic accuracy and added value of qualitative radiological review of 1H-magnetic resonance spectroscopy in evaluation of childhood brain tumors. Neuro-Oncology Practice, 2019, 6, 428-437.	1.0	8
18	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. Magnetic Resonance in Medicine, 2019, 82, 527-550.	1.9	280

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19	Robust retrospective frequency and phase correction for single‐voxel MR spectroscopy. Magnetic Resonance in Medicine, 2019, 81, 2878-2886.	1.9	19
20	Short-acquisition-time JPRESS and its application to paediatric brain tumours. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 247-258.	1.1	1
21	Variation of T_2 relaxation times in pediatric brain tumors and their effect on metabolite quantification. Journal of Magnetic Resonance Imaging, 2019, 49, 195-203.	1.9	4
22	Metabolite Levels in Paediatric Brain Tumours Correlate with Histological Features. Pathobiology, 2018, 85, 157-168.	1.9	5
23	Quantitative Brain MRI in Congenital Adrenal Hyperplasia: In Vivo Assessment of the Cognitive and Structural Impact of Steroid Hormones. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 1330-1341.	1.8	32
24	Neural changes associated with cerebellar tDCS studied using MR spectroscopy. Experimental Brain Research, 2018, 236, 997-1006.	0.7	25
25	Application of pattern recognition techniques for classification of pediatric brain tumors by in vivo 3T [1]H‐MR spectroscopy—A multi‐center study. Magnetic Resonance in Medicine, 2018, 79, 2359-2366.	1.9	29
26	Metabolic profiling of the three neural derived embryonal pediatric tumors retinoblastoma, neuroblastoma and medulloblastoma, identifies distinct metabolic profiles. Oncotarget, 2018, 9, 11336-11351.	0.8	22
27	Glycine: a non-invasive imaging biomarker to aid magnetic resonance spectroscopy in the prediction of survival in paediatric brain tumours. Oncotarget, 2018, 9, 18858-18868.	0.8	6
28	Evaluation of the added value of 1H-magnetic resonance spectroscopy for the diagnosis of pediatric brain lesions in clinical practice. Neuro-Oncology Practice, 2018, 5, 18-27.	1.0	12
29	Tissue metabolite profiles for the characterisation of paediatric cerebellar tumours. Scientific Reports, 2018, 8, 11992.	1.6	24
30	Influence of macromolecule baseline on ^{1}H MR spectroscopic imaging reproducibility. Magnetic Resonance in Medicine, 2017, 77, 34-43.	1.9	30
31	Multiclass imbalance learning: Improving classification of pediatric brain tumors from magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2017, 77, 2114-2124.	1.9	33
32	PO033…Do mesiotemporal metabolites explain temporal lobe function after stroke?. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, A20.4-A21.	0.9	0
33	TB-21METABOLISM AS A PREDICTOR OF SURVIVAL IN CHILDREN'S BRAIN TUMOURS. Neuro-Oncology, 2016, 18, iii172.3-iii172.	0.6	0
34	Multi‐centre reproducibility of diffusion MRI parameters for clinical sequences in the brain. NMR in Biomedicine, 2015, 28, 468-485.	1.6	178
35	Metabolite profiling in retinoblastoma identifies novel clinicopathological subgroups. British Journal of Cancer, 2015, 113, 1216-1224.	2.9	20
36	Sensitivity encoding for fast ^{1}H MR spectroscopic imaging water reference acquisition. Magnetic Resonance in Medicine, 2015, 73, 2081-2086.	1.9	3

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37	MRS water resonance frequency in childhood brain tumours: a novel potential biomarker of temperature and tumour environment. NMR in Biomedicine, 2014, 27, 1222-1229.	1.6	16
38	Diagnosing relapse in children's brain tumors using metabolite profiles. Neuro-Oncology, 2014, 16, 156-164.	0.6	20
39	Noninvasive Detection of Glutamate Predicts Survival in Pediatric Medulloblastoma. Clinical Cancer Research, 2014, 20, 4532-4539.	3.2	37
40	Current practice in the use of MEGA-PRESS spectroscopy for the detection of GABA. NeuroImage, 2014, 86, 43-52.	2.1	448
41	Clinical protocols for 31P MRS of the brain and their use in evaluating optic pathway gliomas in children. European Journal of Radiology, 2014, 83, e106-e112.	1.2	30
42	Increased unsaturation of lipids in cytoplasmic lipid droplets in DAOY cancer cells in response to cisplatin treatment. Metabolomics, 2013, 9, 722-729.	1.4	33
43	Accurate classification of childhood brain tumours by in vivo 1H MRS – A multi-centre study. European Journal of Cancer, 2013, 49, 658-667.	1.3	70
44	Magnetic resonance spectroscopy metabolite profiles predict survival in paediatric brain tumours. European Journal of Cancer, 2013, 49, 457-464.	1.3	53
45	Classification of single-voxel ^{1}H spectra of childhood cerebellar tumors using lcmodel and whole tissue representations. Magnetic Resonance in Medicine, 2013, 70, 1-6.	1.9	14
46	Cytoplasmic lipid droplets in nervous system tumour cell lines: Size and lipid species as analysed by 1H nuclear magnetic resonance spectroscopy. Biomedical Spectroscopy and Imaging, 2013, 2, 9-19.	1.2	1
47	The lipid composition of isolated cytoplasmic lipid droplets from a human cancer cell line, BE(2)M17. Molecular BioSystems, 2012, 8, 1694.	2.9	5
48	The size of cytoplasmic lipid droplets varies between tumour cell lines of the nervous system: a 1H NMR spectroscopy study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 479-485.	1.1	9
49	Recapitulation of Tumor Heterogeneity and Molecular Signatures in a 3D Brain Cancer Model with Decreased Sensitivity to Histone Deacetylase Inhibition. PLoS ONE, 2012, 7, e52335.	1.1	46
50	A hybrid method of application of independent component analysis to *in vivo* ^{1}H MR spectra of childhood brain tumours. NMR in Biomedicine, 2012, 25, 594-606.	1.6	6
51	Lipid biomarkers of glioma cell growth arrest and cell death detected by ^{1}H magic angle spinning MRS. NMR in Biomedicine, 2012, 25, 1253-1262.	1.6	27
52	Metabolite Profile Differences in Childhood Brain Tumors: 1H Magic Angle Spinning NMR Spectroscopy. Pediatric Cancer, 2012, , 107-116.	0.0	0
53	In Vitro Metabonomic Study Detects Increases in UDP-GlcNAc and UDP-GalNAc, as Early Phase Markers of Cisplatin Treatment Response in Brain Tumor Cells. Journal of Proteome Research, 2011, 10, 3493-3500.	1.8	43
54	1H magnetic resonance spectroscopy metabolites as biomarkers for cell cycle arrest and cell death in rat glioma cells. International Journal of Biochemistry and Cell Biology, 2011, 43, 990-1001.	1.2	35

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55	MR spectroscopy-based brain metabolite profiling in propionic acidaemia: metabolic changes in the basal ganglia during acute decompensation and effect of liver transplantation. Orphanet Journal of Rare Diseases, 2011, 6, 19.	1.2	34
56	A constrained least–squares approach to the automated quantitation of in vivo ^{1}H magnetic resonance spectroscopy data. Magnetic Resonance in Medicine, 2011, 65, 1-12.	1.9	273
57	Non-invasive detection of glycine as a biomarker of malignancy in childhood brain tumours using *in-vivo* ^{1}H MRS at 1.5 Tesla confirmed by *ex-vivo* high-resolution magic-angle spinning NMR. NMR in Biomedicine, 2010, 23, 80-87.	1.6	63
58	A comparison between simulated and experimental basis sets for assessing short–TE *in vivo* ^{1}H MRS data at 1.5 T. NMR in Biomedicine, 2010, 23, 1117-1126.	1.6	14
59	1H nuclear magnetic resonance spectroscopy characterisation of metabolic phenotypes in the medulloblastoma of the SMO transgenic mice. British Journal of Cancer, 2010, 103, 1297-1304.	2.9	23
60	Ex-vivo HRMAS of adult brain tumours: metabolite quantification and assignment of tumour biomarkers. Molecular Cancer, 2010, 9, 66.	7.9	70
61	A quantitative comparison of metabolite signals as detected by *in vivo* MRS with *ex vivo* ^{1}H HR–MAS for childhood brain tumours. NMR in Biomedicine, 2009, 22, 213-219.	1.6	48
62	A comparative study of feature extraction and blind source separation of independent component analysis (ICA) on childhood brain tumour ^{1}H magnetic resonance spectra. NMR in Biomedicine, 2009, 22, 809-818.	1.6	16
63	High resolution magic angle spinning 1H NMR of childhood brain and nervous system tumours. Molecular Cancer, 2009, 8, 6.	7.9	55
64	Identification and characterisation of childhood cerebellar tumours by *in vivo* proton MRS. NMR in Biomedicine, 2008, 21, 908-918.	1.6	106
65	1H MRS identifies specific metabolite profiles associated with MYCN-amplified and non-amplified tumour subtypes of neuroblastoma cell lines. NMR in Biomedicine, 2007, 20, 692-700.	1.6	25
66	An algorithm for the automated quantitation of metabolites in in vitro NMR signals. Magnetic Resonance in Medicine, 2006, 56, 1211-1219.	1.9	79
67	Quantitative diffusion characteristics of the human brain depend on MRI sequence parameters. Neuroradiology, 2002, 44, 586-591.	1.1	1