

Nigel P Davies

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,502
citations

304743

22
h-index

330143

37
g-index

58
all docs

58
docs citations

58
times ranked

2440
citing authors

#	ARTICLE	IF	CITATIONS
1	Added value of magnetic resonance spectroscopy for diagnosing childhood cerebellar tumours. <i>NMR in Biomedicine</i> , 2022, 35, e4630.	2.8	3
2	Metabolite selection for machine learning in childhood brain tumour classification. <i>NMR in Biomedicine</i> , 2022, 35, e4673.	2.8	7
3	Classification of paediatric brain tumours by diffusion weighted imaging and machine learning. <i>Scientific Reports</i> , 2021, 11, 2987.	3.3	25
4	Machine learning-based radiomic evaluation of treatment response prediction in glioblastoma. <i>Clinical Radiology</i> , 2021, 76, 628.e17-628.e27.	1.1	30
5	Artificial intelligence for early prediction of treatment response in glioblastoma. <i>Neuro-Oncology</i> , 2021, 23, iv1-iv1.	1.2	1
6	Multiparametric MRI: practical approach and pictorial review of a useful tool in the evaluation of brain tumours and tumour-like lesions. <i>Insights Into Imaging</i> , 2020, 11, 84.	3.4	42
7	Ex vivo metabolite profiling of paediatric central nervous system tumours reveals prognostic markers. <i>Scientific Reports</i> , 2019, 9, 10473.	3.3	5
8	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.	1.6	8
9	Hepatitis C virus infection is associated with hepatic and adipose tissue insulin resistance that improves after viral cure. <i>Clinical Endocrinology</i> , 2019, 90, 440-448.	2.4	16
10	Evaluation of Response to Stereotactic Radiosurgery in Brain Metastases Using Multiparametric Magnetic Resonance Imaging and a Review of the Literature. <i>Clinical Oncology</i> , 2019, 31, 41-49.	1.4	13
11	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.	3.4	4
12	Metabolite Levels in Paediatric Brain Tumours Correlate with Histological Features. <i>Pathobiology</i> , 2018, 85, 157-168.	3.8	5
13	Raman spectroscopy: a novel tool for intraoperative guidance in surgical neuro-oncology. <i>Neuro-Oncology</i> , 2018, 20, i16-i16.	1.2	3
14	Utility and cost evaluation of multiparametric magnetic resonance imaging for the assessment of non-alcoholic fatty liver disease. <i>Alimentary Pharmacology and Therapeutics</i> , 2018, 47, 631-644.	3.7	77
15	Application of pattern recognition techniques for classification of pediatric brain tumors by in vivo 3T ¹ H-MR spectroscopy: A multicenter study. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2359-2366.	3.0	29
16	Evaluation of response to stereotactic radiosurgery in brain metastases using multiparametric MRI. <i>Neuro-Oncology</i> , 2018, 20, v356-v356.	1.2	0
17	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.	1.8	6
18	Radiomic evaluation of treatment response in patients with glioblastoma: a pilot study. <i>Neuro-Oncology</i> , 2018, 20, v358-v358.	1.2	1

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19	Multiparametric magnetic resonance imaging for quantitation of liver disease: a two-centre cross-sectional observational study. <i>Scientific Reports</i> , 2018, 8, 9189.	3.3	56
20	Prospective multicentre evaluation and refinement of an analysis tool for magnetic resonance spectroscopy of childhood cerebellar tumours. <i>Pediatric Radiology</i> , 2018, 48, 1630-1641.	2.0	7
21	Tissue metabolite profiles for the characterisation of paediatric cerebellar tumours. <i>Scientific Reports</i> , 2018, 8, 11992.	3.3	24
22	Multiclass imbalance learning: Improving classification of pediatric brain tumors from magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2114-2124.	3.0	33
23	TB-21 METABOLISM AS A PREDICTOR OF SURVIVAL IN CHILDREN'S BRAIN TUMOURS. <i>Neuro-Oncology</i> , 2016, 18, iii172.3-iii172.	1.2	0
24	PWE-038...Validation of Multiparametric MRI in The Assessment and Staging of Non-Alcoholic Fatty Liver Disease: Abstract PWE-038 Table 1. <i>Gut</i> , 2016, 65, A157.2-A158.	12.1	0
25	MB-85 NON-INVASIVE TEMPERATURE MEASUREMENTS BY MRI AS A PREDICTOR OF THE SURVIVAL OF MEDULLOBLASTOMA PATIENTS. <i>Neuro-Oncology</i> , 2016, 18, iii116.3-iii116.	1.2	0
26	TB-26 TISSUE METABOLITE PROFILES IN THE CHARACTERISATION AND DIAGNOSIS OF CHILDHOOD POSTERIOR FOSSA TUMOURS. <i>Neuro-Oncology</i> , 2016, 18, iii173.2-iii173.	1.2	0
27	Dual-5 α -Reductase Inhibition Promotes Hepatic Lipid Accumulation in Man. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 103-113.	3.6	50
28	Multi-centre reproducibility of diffusion MRI parameters for clinical sequences in the brain. <i>NMR in Biomedicine</i> , 2015, 28, 468-485.	2.8	178
29	MRS thermometry calibration at 3 α T: effects of protein, ionic concentration and magnetic field strength. <i>NMR in Biomedicine</i> , 2015, 28, 792-800.	2.8	10
30	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.	2.8	16
31	Texture analysis of T_1 - and T_2 -weighted MR images and use of probabilistic neural network to discriminate posterior fossa tumours in children. <i>NMR in Biomedicine</i> , 2014, 27, 632-639.	2.8	48
32	Diagnosing relapse in children's brain tumors using metabolite profiles. <i>Neuro-Oncology</i> , 2014, 16, 156-164.	1.2	20
33	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.	2.6	30
34	Accurate classification of childhood brain tumours by in vivo ^1H MRS - A multi-centre study. <i>European Journal of Cancer</i> , 2013, 49, 658-667.	2.8	70
35	^1H magnetic resonance spectroscopy in the diagnosis of paediatric low grade brain tumours. <i>European Journal of Radiology</i> , 2013, 82, e295-e301.	2.6	26
36	Classification of single-voxel ^1H spectra of childhood cerebellar tumors using Icm model and whole tissue representations. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1-6.	3.0	14

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37	A hybrid method of application of independent component analysis to <i>in vivo</i> ¹ H MR spectra of childhood brain tumours. <i>NMR in Biomedicine</i> , 2012, 25, 594-606.	2.8	6
38	4101 ORAL Multicentre Prospective Classification of Childhood Brain Tumours Using Magnetic Resonance Spectroscopy. <i>European Journal of Cancer</i> , 2011, 47, S284.	2.8	0
39	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.	2.7	34
40	Short echo time single voxel 1H magnetic resonance spectroscopy in the diagnosis and characterisation of pineal tumours in children. <i>Pediatric Blood and Cancer</i> , 2011, 57, 972-977.	1.5	17
41	The development of a graphical user interface, functional elements and classifiers for the non-invasive characterization of childhood brain tumours using magnetic resonance spectroscopy. <i>Knowledge Engineering Review</i> , 2011, 26, 353-363.	2.6	3
42	Magnetic Resonance Spectroscopy in the Diagnostic Evaluation of Brainstem Lesions in Alexander Disease. <i>Journal of Child Neurology</i> , 2011, 26, 356-360.	1.4	10
43	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.	2.8	63
44	A comparison between simulated and experimental basis sets for assessing short-TE <i>in vivo</i> ¹ H MRS data at 1.5 T. <i>NMR in Biomedicine</i> , 2010, 23, 1117-1126.	2.8	14
45	Quantitative <i>in vivo</i> brain magnetic resonance spectroscopic monitoring of neurological involvement in mucopolysaccharidosis type II (Hunter Syndrome). <i>Journal of Inherited Metabolic Disease</i> , 2010, 33, 395-399.	3.6	14
46	Localisation, Registration and Visualisation of MRS Volumes of Interest on MR Images. <i>IFMBE Proceedings</i> , 2010, , 256-259.	0.3	0
47	A quantitative comparison of metabolite signals as detected by <i>in vivo</i> MRS with <i>ex vivo</i> ¹ H HR-MAS for childhood brain tumours. <i>NMR in Biomedicine</i> , 2009, 22, 213-219.	2.8	48
48	A comparative study of feature extraction and blind source separation of independent component analysis (ICA) on childhood brain tumour ¹ H magnetic resonance spectra. <i>NMR in Biomedicine</i> , 2009, 22, 809-818.	2.8	16
49	High resolution magic angle spinning 1H NMR of childhood brain and nervous system tumours. <i>Molecular Cancer</i> , 2009, 8, 6.	19.2	55
50	Identification and characterisation of childhood cerebellar tumours by <i>in vivo</i> proton MRS. <i>NMR in Biomedicine</i> , 2008, 21, 908-918.	2.8	106
51	Magnetic resonance spectroscopy in the assessment of pilocytic astrocytomas. <i>European Journal of Cancer</i> , 2008, 44, 2640-2647.	2.8	40
52	The value of magnetic resonance spectroscopy in tumour imaging. <i>Archives of Disease in Childhood</i> , 2008, 93, 725-727.	1.9	21
53	Magnetic resonance spectroscopy suggests key differences in the metastatic behaviour of medulloblastoma. <i>European Journal of Cancer</i> , 2007, 43, 1037-1044.	2.8	35
54	The use of short-echo-time 1H MRS for childhood cerebellar tumours prior to histopathological diagnosis. <i>Pediatric Radiology</i> , 2007, 37, 1101-1109.	2.0	36

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55	Short echo time 1 H magnetic resonance spectroscopy of childhood brain tumours. <i>Child's Nervous System</i> , 2007, 23, 163-169.	1.1	30
56	Calibration of gradient propagation delays for accurate two-dimensional radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 231-236.	3.0	16
57	Selective arterial spin labeling (SASL): Perfusion territory mapping of selected feeding arteries tagged using two-dimensional radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 1133-1142.	3.0	74
58	Optimum setting of binomial pulses for magnetization transfer contrast. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 539-548.	3.4	7