

# 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	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
2	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
3	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
4	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
5	Accurate classification of childhood brain tumours by <i>in vivo</i> <sup>1</sup> H MRS – A multi-centre study. <i>European Journal of Cancer</i> , 2013, 49, 658-667.	2.8	70
6	Non-invasive detection of glycine as a biomarker of malignancy in childhood brain tumours using <i>in-vivo</i> <sup>1</sup> 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
7	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
8	High resolution magic angle spinning <sup>1</sup> H NMR of childhood brain and nervous system tumours. <i>Molecular Cancer</i> , 2009, 8, 6.	19.2	55
9	Dual- <sup>5</sup> $\alpha$ -Reductase Inhibition Promotes Hepatic Lipid Accumulation in Man. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 103-113.	3.6	50
10	A quantitative comparison of metabolite signals as detected by <i>in vivo</i> MRS with <i>ex vivo</i> <sup>1</sup> H HR-MAS for childhood brain tumours. <i>NMR in Biomedicine</i> , 2009, 22, 213-219.	2.8	48
11	Texture analysis of <i>T</i> <sub>1</sub> - and <i>T</i> <sub>2</sub> -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
12	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
13	Magnetic resonance spectroscopy in the assessment of pilocytic astrocytomas. <i>European Journal of Cancer</i> , 2008, 44, 2640-2647.	2.8	40
14	The use of short-echo-time <sup>1</sup> H MRS for childhood cerebellar tumours prior to histopathological diagnosis. <i>Pediatric Radiology</i> , 2007, 37, 1101-1109.	2.0	36
15	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
16	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
17	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
18	Short echo time <sup>1</sup> H magnetic resonance spectroscopy of childhood brain tumours. <i>Child's Nervous System</i> , 2007, 23, 163-169.	1.1	30

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19	Clinical protocols for 31P 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
20	Machine learning-based radiomic evaluation of treatment response prediction in glioblastoma. <i>Clinical Radiology</i> , 2021, 76, 628.e17-628.e27.	1.1	30
21	Application of pattern recognition techniques for classification of pediatric brain tumors by in vivo 3T <sup>1</sup> H-MR spectroscopy: A multi-center study. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2359-2366.	3.0	29
22	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
23	Classification of paediatric brain tumours by diffusion weighted imaging and machine learning. <i>Scientific Reports</i> , 2021, 11, 2987.	3.3	25
24	Tissue metabolite profiles for the characterisation of paediatric cerebellar tumours. <i>Scientific Reports</i> , 2018, 8, 11992.	3.3	24
25	The value of magnetic resonance spectroscopy in tumour imaging. <i>Archives of Disease in Childhood</i> , 2008, 93, 725-727.	1.9	21
26	Diagnosing relapse in children's brain tumors using metabolite profiles. <i>Neuro-Oncology</i> , 2014, 16, 156-164.	1.2	20
27	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
28	Calibration of gradient propagation delays for accurate two-dimensional radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 231-236.	3.0	16
29	A comparative study of feature extraction and blind source separation of independent component analysis (ICA) on childhood brain tumour <sup>1</sup> H magnetic resonance spectra. <i>NMR in Biomedicine</i> , 2009, 22, 809-818.	2.8	16
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	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
32	A comparison between simulated and experimental basis sets for assessing short <sup>1</sup> H MRS data at 1.5 T. <i>NMR in Biomedicine</i> , 2010, 23, 1117-1126.	2.8	14
33	Quantitative in vivo 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
34	Classification of single voxel <sup>1</sup> H spectra of childhood cerebellar tumors using lmodel and whole tissue representations. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1-6.	3.0	14
35	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
36	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

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37	MRS thermometry calibration at 3â€°T: effects of protein, ionic concentration and magnetic field strength. NMR in Biomedicine, 2015, 28, 792-800.	2.8	10
38	Diagnostic accuracy and added value of qualitative radiological review of 1H-magnetic resonance spectroscopy in evaluation of childhood brain tumours. Neuro-Oncology Practice, 2019, 6, 428-437.	1.6	8
39	Optimum setting of binomial pulses for magnetization transfer contrast. Journal of Magnetic Resonance Imaging, 2000, 11, 539-548.	3.4	7
40	Prospective multicentre evaluation and refinement of an analysis tool for magnetic resonance spectroscopy of childhood cerebellar tumours. Pediatric Radiology, 2018, 48, 1630-1641.	2.0	7
41	Metabolite selection for machine learning in childhood brain tumour classification. NMR in Biomedicine, 2022, 35, e4673.	2.8	7
42	A hybrid method of application of independent component analysis to <i>in vivo</i> <sup>1</sup> H MR spectra of childhood brain tumours. NMR in Biomedicine, 2012, 25, 594-606.	2.8	6
43	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.	1.8	6
44	Metabolite Levels in Paediatric Brain Tumours Correlate with Histological Features. Pathobiology, 2018, 85, 157-168.	3.8	5
45	Ex vivo metabolite profiling of paediatric central nervous system tumours reveals prognostic markers. Scientific Reports, 2019, 9, 10473.	3.3	5
46	Variation of T <sub>2</sub> relaxation times in pediatric brain tumors and their effect on metabolite quantification. Journal of Magnetic Resonance Imaging, 2019, 49, 195-203.	3.4	4
47	The development of a graphical user interface, functional elements and classifiers for the non-invasive characterization of childhood brain tumours using magnetic resonance spectroscopy. Knowledge Engineering Review, 2011, 26, 353-363.	2.6	3
48	Raman spectroscopy: a novel tool for intraoperative guidance in surgical neuro-oncology. Neuro-Oncology, 2018, 20, i16-i16.	1.2	3
49	Added value of magnetic resonance spectroscopy for diagnosing childhood cerebellar tumours. NMR in Biomedicine, 2022, 35, e4630.	2.8	3
50	Radiomic evaluation of treatment response in patients with glioblastoma: a pilot study. Neuro-Oncology, 2018, 20, v358-v358.	1.2	1
51	Artificial intelligence for early prediction of treatment response in glioblastoma. Neuro-Oncology, 2021, 23, iv1-iv1.	1.2	1
52	4101 ORAL Multicentre Prospective Classification of Childhood Brain Tumours Using Magnetic Resonance Spectroscopy. European Journal of Cancer, 2011, 47, S284.	2.8	0
53	TB-21METABOLISM AS A PREDICTOR OF SURVIVAL IN CHILDREN'S BRAIN TUMOURS. Neuro-Oncology, 2016, 18, iii172.3-iii172.	1.2	0
54	PWE-038â€¦Validation of Multiparametric MRI in The Assessment and Staging of Non-Alcoholic Fatty Liver Disease: Abstract PWE-038 Table 1. Gut, 2016, 65, A157.2-A158.	12.1	0

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55	MB-85NON-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
56	TB-26TISSUE METABOLITE PROFILES IN THE CHARACTERISATION AND DIAGNOSIS OF CHILDHOOD POSTERIOR FOSSA TUMOURS. <i>Neuro-Oncology</i> , 2016, 18, iii173.2-iii173.	1.2	0
57	Evaluation of response to stereotactic radiosurgery in brain metastases using multiparametric MRI. <i>Neuro-Oncology</i> , 2018, 20, v356-v356.	1.2	0
58	Localisation, Registration and Visualisation of MRS Volumes of Interest on MR Images. <i>IFMBE Proceedings</i> , 2010, , 256-259.	0.3	0