Patrick W Hales

List of Publications by Year
in descending order

29 papers	926 citations	567281 15 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	1941 citing authors

#	Article	IF	Citations
1	Multiâ€centre reproducibility of diffusion MRI parameters for clinical sequences in the brain. NMR in Biomedicine, 2015, 28, 468-485.	2.8	178
2	Generation of histo-anatomically representative models of the individual heart: tools and application. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2257-2292.	3.4	135
3	Histo-anatomical structure of the living isolated rat heart in two contraction states assessed by diffusion tensor MRI. Progress in Biophysics and Molecular Biology, 2012, 110, 319-330.	2.9	96
4	Arterial Spin Labeling Characterization of Cerebral Perfusion during Normal Maturation from Late Childhood into Adulthood: Normal â€˜Reference Rangeâ€™ Values and Their Use in Clinical Studies. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 776-784.	4.3	61
5	Comparison of ASL and DCE MRI for the non-invasive measurement of renal blood flow: quantification and reproducibility. European Radiology, 2014, 24, 1300-1308.	4.5	50
6	A general model to calculate the spin-lattice (T₁) relaxation time of blood, accounting for haematocrit, oxygen saturation and magnetic field strength. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 370-374.	4.3	45
7	A multiâ€Gaussian model for apparent diffusion coefficient histogram analysis of Wilmsâ€™ tumour subtype and response to chemotherapy. NMR in Biomedicine, 2015, 28, 948-957.	2.8	34
8	Combined Arterial Spin Labeling and Diffusion-Weighted Imaging for Noninvasive Estimation of Capillary Volume Fraction and Permeability-Surface Product in the Human Brain. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 67-75.	4.3	33
9	Progressive changes in T₁, T₂ and leftâ€ventricular histoâ€architecture in the fixed and embedded rat heart. NMR in Biomedicine, 2011, 24, 836-843.	2.8	31
10	Arterial spin labelling and diffusion-weighted imaging in paediatric brain tumours. NeuroImage: Clinical, 2019, 22, 101696.	2.7	31
11	Vascular Instability and Neurological Morbidity in Sickle Cell Disease: An Integrative Framework. Frontiers in Neurology, 2019, 10, 871.	2.4	30
12	Classification of paediatric brain tumours by diffusion weighted imaging and machine learning. Scientific Reports, 2021, 11, 2987.	3.3	25
13	Volumetric assessment of tumor size changes in pediatric low-grade gliomas: feasibility and comparison with linear measurements. Neuroradiology, 2018, 60, 427-436.	2.2	22
14	Delineation of the visual pathway in paediatric optic pathway glioma patients using probabilistic tractography, and correlations with visual acuity. NeuroImage: Clinical, 2018, 17, 541-548.	2.7	22
15	Interrogation of living myocardium in multiple static deformation states with diffusion tensor and diffusion spectrum imaging. Progress in Biophysics and Molecular Biology, 2014, 115, 213-225.	2.9	19
16	Combined Denoising and Suppression of Transient Artifacts in Arterial Spin Labeling <scp>MRI</scp> Using Deep Learning. Journal of Magnetic Resonance Imaging, 2020, 52, 1413-1426.	3.4	15
17	Quantitative MRI in post-operative paediatric cerebellar mutism syndrome. European Journal of Radiology, 2018, 108, 43-51.	2.6	14
18	Cerebral perfusion characteristics show differences in younger versus older children with sickle cell anaemia: Results from a multipleâ€inflowâ€time arterial spin labelling study. NMR in Biomedicine, 2018, 31, e3915.	2.8	13

#	Article	IF	Citations
19	Tractographic and Microstructural Analysis of the Dentato-Rubro-Thalamo-Cortical Tracts in Children Using Diffusion MRI. Cerebral Cortex, 2021, 31, 2595-2609.	2.9	13
20	A Two-Stage Model for In Vivo Assessment of Brain Tumor Perfusion and Abnormal Vascular Structure Using Arterial Spin Labeling. PLoS ONE, 2013, 8, e75717.	2.5	11
21	Venous cerebral blood flow quantification and cognition in patients with sickle cell anemia. Journal of Cerebral Blood Flow and Metabolism, 2022, , 0271678X2110723.	4.3	8
22	Individual Watershed Areas in Sickle Cell Anemia: An Arterial Spin Labeling Study. Frontiers in Physiology, 2022, 13, 865391.	2.8	8
23	An alternative approach to contrast-enhanced imaging: diffusion-weighted imaging and T1-weighted imaging identifies and quantifies necrosis in Wilms tumour. European Radiology, 2019, 29, 4141-4149.	4.5	7
24	Comparison Between Diffusionâ€Weighted MRI and ¹²³Iâ€mIBG Uptake in Primary Highâ€Risk Neuroblastoma. Journal of Magnetic Resonance Imaging, 2021, 53, 1486-1497.	3.4	7
25	Neurosurgical applications of tractography in the UK. British Journal of Neurosurgery, 2021, 35, 424-429.	0.8	7
26	Highâ€resolution microscopic diffusion anisotropy imaging in the human hippocampus at 3T. Magnetic Resonance in Medicine, 2022, 87, 1903-1913.	3.0	4
27	The promise of noninvasive cerebral hemodynamic assessment in sickle cell anemia. Neurology, 2018, 90, 585-586.	1.1	3
28	Quantitative MRI demonstrates abnormalities of the third ventricle subventricular zone in neurofibromatosis type-1 and sporadic paediatric optic pathway glioma. NeuroImage: Clinical, 2020, 28, 102447.	2.7	2
29	Comparison of models of diffusion in Wilmsâ€™ tumours and normal contralateral renal tissue. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 261-271.	2.0	2