

Nicholas P Blockley

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,127
citations

430754

18
h-index

454834

30
g-index

36
all docs

36
docs citations

36
times ranked

1226
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative chemical exchange saturation transfer imaging of nuclear overhauser effects in acute ischemic stroke. <i>Magnetic Resonance in Medicine</i> , 2022, , .	1.9	2
2	Simulations of the effect of diffusion on asymmetric spin echo based quantitative BOLD: An investigation of the origin of deoxygenated blood volume overestimation. <i>NeuroImage</i> , 2019, 201, 116035.	2.1	12
3	Partial volume correction for quantitative CEST imaging of acute ischemic stroke. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1920-1928.	1.9	5
4	Model-based Bayesian inference of brain oxygenation using quantitative BOLD. <i>NeuroImage</i> , 2019, 202, 116106.	2.1	12
5	Coupling between cerebral blood flow and cerebral blood volume: Contributions of different vascular compartments. <i>NMR in Biomedicine</i> , 2019, 32, e4061.	1.6	15
6	Quantitative CEST imaging of amide proton transfer in acute ischaemic stroke. <i>NeuroImage: Clinical</i> , 2019, 23, 101833.	1.4	39
7	Prospects for investigating brain oxygenation in acute stroke: Experience with a non-contrast quantitative BOLD based approach. <i>Human Brain Mapping</i> , 2019, 40, 2853-2866.	1.9	18
8	The relationship between blood flow impairment and oxygen depletion in acute ischemic stroke imaged with magnetic resonance imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 454-465.	2.4	10
9	Multiparametric measurement of cerebral physiology using calibrated fMRI. <i>NeuroImage</i> , 2019, 187, 128-144.	2.1	22
10	Gas-free calibrated fMRI with a correction for vessel-size sensitivity. <i>NeuroImage</i> , 2018, 169, 176-188.	2.1	16
11	A streamlined acquisition for mapping baseline brain oxygenation using quantitative BOLD. <i>NeuroImage</i> , 2017, 147, 79-88.	2.1	43
12	Rapid cerebrovascular reactivity mapping: Enabling vascular reactivity information to be routinely acquired. <i>NeuroImage</i> , 2017, 159, 214-223.	2.1	17
13	Improving the specificity of R_2^* to the deoxyhaemoglobin content of brain tissue: Prospective correction of macroscopic magnetic field gradients. <i>NeuroImage</i> , 2016, 135, 253-260.	2.1	28
14	A novel Bayesian approach to accounting for uncertainty in fMRI-derived estimates of cerebral oxygen metabolism fluctuations. <i>NeuroImage</i> , 2016, 129, 198-213.	2.1	14
15	Measurement of oxygen extraction fraction (OEF): An optimized BOLD signal model for use with hypercapnic and hyperoxic calibration. <i>NeuroImage</i> , 2016, 129, 159-174.	2.1	28
16	Hemispheric asymmetry in cerebrovascular reactivity of the human primary motor cortex: an <i>in vivo</i> study at 7 T. <i>NMR in Biomedicine</i> , 2015, 28, 538-545.	1.6	4
17	Calibrating the BOLD response without administering gases: Comparison of hypercapnia calibration with calibration using an asymmetric spin echo. <i>NeuroImage</i> , 2015, 104, 423-429.	2.1	39
18	Investigating the field-dependence of the Davis model: Calibrated fMRI at 1.5, 3 and 7 T. <i>NeuroImage</i> , 2015, 112, 189-196.	2.1	13

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19	Sources of systematic error in calibrated BOLD based mapping of baseline oxygen extraction fraction. <i>NeuroImage</i> , 2015, 122, 105-113.	2.1	33
20	Identifying the ischaemic penumbra using pH-weighted magnetic resonance imaging. <i>Brain</i> , 2015, 138, 36-42.	3.7	135
21	Comparing different analysis methods for quantifying the MRI amide proton transfer (APT) effect in hyperacute stroke patients. <i>NMR in Biomedicine</i> , 2014, 27, 1019-1029.	1.6	84
22	An analysis of the use of hyperoxia for measuring venous cerebral blood volume: Comparison of the existing method with a new analysis approach. <i>NeuroImage</i> , 2013, 72, 33-40.	2.1	37
23	A review of calibrated blood oxygenation level-dependent (BOLD) methods for the measurement of task-induced changes in brain oxygen metabolism. <i>NMR in Biomedicine</i> , 2013, 26, 987-1003.	1.6	130
24	A New Functional MRI Approach for Investigating Modulations of Brain Oxygen Metabolism. <i>PLoS ONE</i> , 2013, 8, e68122.	1.1	27
25	Measuring venous blood volume changes during activation using hyperoxia. <i>NeuroImage</i> , 2012, 59, 3266-3274.	2.1	21
26	A general analysis of calibrated BOLD methodology for measuring CMRO ₂ responses: Comparison of a new approach with existing methods. <i>NeuroImage</i> , 2012, 60, 279-289.	2.1	50
27	An improved method for acquiring cerebrovascular reactivity maps. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1278-1286.	1.9	91
28	The change in cerebrovascular reactivity between 3 T and 7 T measured using graded hypercapnia. <i>NeuroImage</i> , 2010, 51, 274-279.	2.1	22
29	Perturbation of the BOLD response by a contrast agent and interpretation through a modified balloon model. <i>NeuroImage</i> , 2009, 48, 84-93.	2.1	29
30	Field strength dependence of R ₁ and R ₂ relaxivities of human whole blood to prohance, vasovist, and deoxyhemoglobin. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1313-1320.	1.9	126