Nicholas P Blockley

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8423977/publications.pdf

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	Identifying the ischaemic penumbra using pH-weighted magnetic resonance imaging. Brain, 2015, 138, 36-42.	3.7	135
2	A review of calibrated blood oxygenation levelâ€dependent (BOLD) methods for the measurement of taskâ€induced changes in brain oxygen metabolism. NMR in Biomedicine, 2013, 26, 987-1003.	1.6	130
3	Field strength dependence of R₁ and R relaxivities of human whole blood to prohance, vasovist, and deoxyhemoglobin. Magnetic Resonance in Medicine, 2008, 60, 1313-1320.	1.9	126
4	An improved method for acquiring cerebrovascular reactivity maps. Magnetic Resonance in Medicine, 2011, 65, 1278-1286.	1.9	91
5	Comparing different analysis methods for quantifying the MRI amide proton transfer (APT) effect in hyperacute stroke patients. NMR in Biomedicine, 2014, 27, 1019-1029.	1.6	84
6	A general analysis of calibrated BOLD methodology for measuring CMRO2 responses: Comparison of a new approach with existing methods. NeuroImage, 2012, 60, 279-289.	2.1	50
7	A streamlined acquisition for mapping baseline brain oxygenation using quantitative BOLD. NeuroImage, 2017, 147, 79-88.	2.1	43
8	Calibrating the BOLD response without administering gases: Comparison of hypercapnia calibration with calibration using an asymmetric spin echo. NeuroImage, 2015, 104, 423-429.	2.1	39
9	Quantitative CEST imaging of amide proton transfer in acute ischaemic stroke. NeuroImage: Clinical, 2019, 23, 101833.	1.4	39
10	An analysis of the use of hyperoxia for measuring venous cerebral blood volume: Comparison of the existing method with a new analysis approach. NeuroImage, 2013, 72, 33-40.	2.1	37
11	Sources of systematic error in calibrated BOLD based mapping of baseline oxygen extraction fraction. NeuroImage, 2015, 122, 105-113.	2.1	33
12	Perturbation of the BOLD response by a contrast agent and interpretation through a modified balloon model. NeuroImage, 2009, 48, 84-93.	2.1	29
13	Improving the specificity of R2â€² to the deoxyhaemoglobin content of brain tissue: Prospective correction of macroscopic magnetic field gradients. NeuroImage, 2016, 135, 253-260.	2.1	28
14	Measurement of oxygen extraction fraction (OEF): An optimized BOLD signal model for use with hypercapnic and hyperoxic calibration. NeuroImage, 2016, 129, 159-174.	2.1	28
15	A New Functional MRI Approach for Investigating Modulations of Brain Oxygen Metabolism. PLoS ONE, 2013, 8, e68122.	1.1	27
16	The change in cerebrovascular reactivity between 3 T and 7 T measured using graded hypercapnia. NeuroImage, 2010, 51, 274-279.	2.1	22
17	Multiparametric measurement of cerebral physiology using calibrated fMRI. NeuroImage, 2019, 187, 128-144.	2.1	22
18	Measuring venous blood volume changes during activation using hyperoxia. NeuroImage, 2012, 59, 3266-3274.	2.1	21

#	Article	IF	Citations
19	Prospects for investigating brain oxygenation in acute stroke: Experience with a nonâ€contrast quantitative BOLD based approach. Human Brain Mapping, 2019, 40, 2853-2866.	1.9	18
20	Rapid cerebrovascular reactivity mapping: Enabling vascular reactivity information to be routinely acquired. NeuroImage, 2017, 159, 214-223.	2.1	17
21	Gas-free calibrated fMRI with a correction for vessel-size sensitivity. NeuroImage, 2018, 169, 176-188.	2.1	16
22	Coupling between cerebral blood flow and cerebral blood volume: Contributions of different vascular compartments. NMR in Biomedicine, 2019, 32, e4061.	1.6	15
23	A novel Bayesian approach to accounting for uncertainty in fMRI-derived estimates of cerebral oxygen metabolism fluctuations. NeuroImage, 2016, 129, 198-213.	2.1	14
24	Investigating the field-dependence of the Davis model: Calibrated fMRI at 1.5, 3 and 7 T. NeuroImage, 2015, 112, 189-196.	2.1	13
25	Simulations of the effect of diffusion on asymmetric spin echo based quantitative BOLD: An investigation of the origin of deoxygenated blood volume overestimation. NeuroImage, 2019, 201, 116035.	2.1	12
26	Model-based Bayesian inference of brain oxygenation using quantitative BOLD. NeuroImage, 2019, 202, 116106.	2.1	12
27	The relationship between blood flow impairment and oxygen depletion in acute ischemic stroke imaged with magnetic resonance imaging. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 454-465.	2.4	10
28	Partial volume correction for quantitative CEST imaging of acute ischemic stroke. Magnetic Resonance in Medicine, 2019, 82, 1920-1928.	1.9	5
29	Hemispheric asymmetry in cerebrovascular reactivity of the human primary motor cortex: an in vivo study at 7 T. NMR in Biomedicine, 2015, 28, 538-545.	1.6	4
30	Quantitative chemical exchange saturation transfer imaging of nuclear overhauser effects in acute ischemic stroke. Magnetic Resonance in Medicine, 2022, , .	1.9	2