Richard D Hoge

List of Publications by Year
in descending order

24 papers	1,697 citations	430874 18 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	2105 citing authors

#	Article	IF	Citations
1	Investigation of BOLD signal dependence on cerebral blood flow and oxygen consumption: The deoxyhemoglobin dilution model. Magnetic Resonance in Medicine, 1999, 42, 849-863.	3.0	538
2	Effect of spatial smoothing on physiological noise in high-resolution fMRI. NeuroImage, 2006, 32, 551-557.	4.2	125
3	Comparison of Cerebral Vascular Reactivity Measures Obtained Using Breath-Holding and CO_2 Inhalation. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1066-1074.	4.3	120
4	Stimulus-Dependent BOLD and Perfusion Dynamics in Human V1. NeuroImage, 1999, 9, 573-585.	4.2	115
5	Age dependence of hemodynamic response characteristics in human functional magnetic resonance imaging. Neurobiology of Aging, 2013, 34, 1469-1485.	3.1	96
6	Calibrated fMRI. NeuroImage, 2012, 62, 930-937.	4.2	92
7	A generalized procedure for calibrated MRI incorporating hyperoxia and hypercapnia. Human Brain Mapping, 2013, 34, 1053-1069.	3.6	81
8	Hearts and minds: linking vascular rigidity and aerobic fitness with cognitive aging. Neurobiology of Aging, 2015, 36, 304-314.	3.1	75
9	Age differences in brain signal variability are robust to multiple vascular controls. Scientific Reports, 2017, 7, 10149.	3.3	64
10	Oxidative metabolism and the detection of neuronal activation via imaging. Journal of Chemical Neuroanatomy, 2001, 22, 43-52.	2.1	60
11	Application of calibrated fMRI in Alzheimer's disease. NeuroImage: Clinical, 2017, 15, 348-358.	2.7	48
12	Open science datasets from PREVENT-AD, a longitudinal cohort of pre-symptomatic Alzheimer's disease. NeuroImage: Clinical, 2021, 31, 102733.	2.7	42
13	A simple breathing circuit allowing precise control of inspiratory gases for experimental respiratory manipulations. BMC Research Notes, 2014, 7, 235.	1.4	39
14	Perfusion-based functional magnetic resonance imaging with single-shot RARE and GRASE acquisitions. Magnetic Resonance in Medicine, 1999, 41, 132-136.	3.0	34
15	Comparison of pulsed and pseudocontinuous arterial spin-labeling for measuring CO_2-induced cerebrovascular reactivity. Journal of Magnetic Resonance Imaging, 2012, 36, 312-321.	3.4	30
16	Test–retest reliability of cerebral blood flow and blood oxygenation level–dependent responses to hypercapnia and hyperoxia using dual–echo pseudo–continuous arterial spin labeling and step changes in the fractional composition of inspired gases. Journal of Magnetic Resonance Imaging, 2015, 42, 1144-1157.	3.4	29
17	Cerebrovascular perfusion among older adults is moderated by strength training and gender. Neuroscience Letters, 2014, 560, 26-30.	2.1	26
18	Higher cardiovascular fitness level is associated with lower cerebrovascular reactivity and perfusion in healthy older adults. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1468-1481.	4.3	24

#	ARTICLE	IF	CITATIONS
19	Regional Reproducibility of BOLD Calibration Parameter M, OEF and Resting-State CMRO2 Measurements with QUO2 MRI. PLoS ONE, 2016, 11, e0163071.	2.5	24
20	Echo-Time and Field Strength Dependence of BOLD Reactivity in Veins and Parenchyma Using Flow-Normalized Hypercapnic Manipulation. PLoS ONE, 2011, 6, e24519.	2.5	19
21	Sex moderations in the relationship between aortic stiffness, cognition, and cerebrovascular reactivity in healthy older adults. PLoS ONE, 2021, 16, e0257815.	2.5	8
22	The impact of inspired oxygen levels on calibrated fMRI measurements of M, OEF and resting CMRO2 using combined hypercapnia and hyperoxia. PLoS ONE, 2017, 12, e0174932.	2.5	4
23	Field Strength Dependence of Contrast and Noise in fMRI. Biological Magnetic Resonance, 2015, , 793-818.	0.4	3
24	Neuroimaging as a Research Tool in Human Essential Hypertension. , 2016, , 55-69.		0