

Kevin Murphy

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

12,630
citations

61984

43
h-index

48315

88
g-index

97
all docs

97
docs citations

97
times ranked

13010
citing authors

#	ARTICLE	IF	CITATIONS
1	A flow-diffusion model of oxygen transport for quantitative mapping of cerebral metabolic rate of oxygen (CMRO ₂) with single gas calibrated fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1192-1209.	4.3	1
2	Rigid motion-resolved prediction using deep learning for real-time parallel transmission pulse design. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2254-2270.	3.0	6
3	Acute effects of MDMA on trust, cooperative behaviour and empathy: A double-blind, placebo-controlled experiment. <i>Journal of Psychopharmacology</i> , 2021, 35, 547-555.	4.0	15
4	Rude mechanicals in brain haemodynamics: non-neural actors that influence blood flow. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190635.	4.0	39
5	Effects of genomic copy number variants penetrant for schizophrenia on cortical thickness and surface area in healthy individuals: analysis of the UK Biobank. <i>British Journal of Psychiatry</i> , 2021, 218, 104-111.	2.8	8
6	Measuring Arterial Pulsatility With Dynamic Inflow Magnitude Contrast. <i>Frontiers in Neuroscience</i> , 2021, 15, 795749.	2.8	0
7	Polygenic risk for Alzheimer's disease shapes hippocampal scene-selectivity. <i>Neuropsychopharmacology</i> , 2020, 45, 1171-1178.	5.4	8
8	Frontolimbic, Frontoparietal, and Default Mode Involvement in Functional Dysconnectivity in Psychotic Bipolar Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 140-151.	1.5	11
9	Altered cerebrovascular response to acute exercise in patients with Huntington's disease. <i>Brain Communications</i> , 2020, 2, fcaa044.	3.3	5
10	Resting-State Network Patterns Underlying Cognitive Function in Bipolar Disorder: A Graph Theoretical Analysis. <i>Brain Connectivity</i> , 2020, 10, 355-367.	1.7	10
11	Vascular physiology drives functional brain networks. <i>NeuroImage</i> , 2020, 217, 116907.	4.2	66
12	Hypertension, Antihypertensive Use and the Delayed Onset of Huntington's Disease. <i>Movement Disorders</i> , 2020, 35, 937-946.	3.9	13
13	A Frequency-Domain Machine Learning Method for Dual-Calibrated fMRI Mapping of Oxygen Extraction Fraction (OEF) and Cerebral Metabolic Rate of Oxygen Consumption (CMRO ₂). <i>Frontiers in Artificial Intelligence</i> , 2020, 3, .	3.4	6
14	Cerebral Autoregulation Evidenced by Synchronized Low Frequency Oscillations in Blood Pressure and Resting-State fMRI. <i>Frontiers in Neuroscience</i> , 2019, 13, 433.	2.8	40
15	Polygenic impact of common genetic risk loci for Alzheimer's disease on cerebral blood flow in young individuals. <i>Scientific Reports</i> , 2019, 9, 467.	3.3	19
16	Changes in arterial cerebral blood volume during lower body negative pressure measured with MRI. <i>NeuroImage</i> , 2019, 187, 166-175.	4.2	16
17	Assessing the repeatability of absolute CMRO ₂ , OEF and haemodynamic measurements from calibrated fMRI. <i>NeuroImage</i> , 2018, 173, 113-126.	4.2	19
18	Cerebrovascular Function in the Large Arteries Is Maintained Following Moderate Intensity Exercise. <i>Frontiers in Physiology</i> , 2018, 9, 1657.	2.8	14

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19	The Functional Connectivity Between the Nucleus Accumbens and the Ventromedial Prefrontal Cortex as an Endophenotype for Bipolar Disorder. <i>Biological Psychiatry</i> , 2018, 84, 803-809.	1.3	58
20	E08â€...Cerebral blood flow is associated with disease severity and cognitive defecits in pre/early huntingtonâ€™s disease. , 2018, , .		0
21	Cleaning up the fMRI time series: Mitigating noise with advanced acquisition and correction strategies. <i>NeuroImage</i> , 2017, 154, 1-3.	4.2	21
22	Mapping the pharmacological modulation of brain oxygen metabolism: The effects of caffeine on absolute CMRO2 measured using dual calibrated fMRI. <i>NeuroImage</i> , 2017, 155, 331-343.	4.2	43
23	Potential pitfalls when denoising resting state fMRI data using nuisance regression. <i>NeuroImage</i> , 2017, 154, 159-168.	4.2	105
24	Psilocybin for treatment-resistant depression: fMRI-measured brain mechanisms. <i>Scientific Reports</i> , 2017, 7, 13187.	3.3	346
25	Towards a consensus regarding global signal regression for resting state functional connectivity MRI. <i>NeuroImage</i> , 2017, 154, 169-173.	4.2	852
26	Graded Hypercapnia-Calibrated BOLD: Beyond the Iso-metabolic Hypercapnic Assumption. <i>Frontiers in Neuroscience</i> , 2017, 11, 276.	2.8	20
27	Attention Diversion Improves Response Inhibition of Immediate Reward, But Only When it Is Beneficial: An fMRI Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 429.	2.0	6
28	Spontaneous physiological variability modulates dynamic functional connectivity in resting-state functional magnetic resonance imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150183.	3.4	41
29	Increased Global Functional Connectivity Correlates with LSD-Induced Ego Dissolution. <i>Current Biology</i> , 2016, 26, 1043-1050.	3.9	371
30	Neural correlates of the LSD experience revealed by multimodal neuroimaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4853-4858.	7.1	586
31	Arterial CO ₂ Fluctuations Modulate Neuronal Rhythmicity: Implications for MEG and fMRI Studies of Resting-State Networks. <i>Journal of Neuroscience</i> , 2016, 36, 8541-8550.	3.6	39
32	Estimation of voxel-wise dynamic cerebrovascular reactivity curves from resting-state fMRI data. , 2016, 2016, 1143-1146.		3
33	A forward modelling approach for the estimation of oxygen extraction fraction by calibrated fMRI. <i>NeuroImage</i> , 2016, 139, 313-323.	4.2	31
34	The major cerebral arteries proximal to the Circle of Willis contribute to cerebrovascular resistance in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1384-1395.	4.3	36
35	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.	4.2	28
36	The absolute CBF response to activation is preserved during elevated perfusion: Implications for neurovascular coupling measures. <i>NeuroImage</i> , 2016, 125, 198-207.	4.2	50

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37	Emotion regulation deficits in euthymic bipolar I versus bipolar <scp>II</scp> disorder: a functional and diffusion-tensor imaging study. <i>Bipolar Disorders</i> , 2015, 17, 461-470.	1.9	93
38	Measuring vascular reactivity with breath-holds after stroke: A method to aid interpretation of group-level <scp>BOLD</scp> signal changes in longitudinal f<scp>MRI</scp> studies. <i>Human Brain Mapping</i> , 2015, 36, 1755-1771.	3.6	65
39	Agreement and repeatability of vascular reactivity estimates based on a breath-hold task and a resting state scan. <i>NeuroImage</i> , 2015, 113, 387-396.	4.2	57
40	Noninvasive Assessment of Arterial Compliance of Human Cerebral Arteries with Short Inversion Time Arterial Spin Labeling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 461-468.	4.3	29
41	Is fMRI "noise" really noise? Resting state nuisance regressors remove variance with network structure. <i>NeuroImage</i> , 2015, 114, 158-169.	4.2	161
42	Correlation between baseline blood pressure and the brainstem FMRI response to isometric forearm contraction in human volunteers: a pilot study. <i>Journal of Human Hypertension</i> , 2015, 29, 449-455.	2.2	10
43	The Effects of Acutely Administered 3,4-Methylenedioxymethamphetamine on Spontaneous Brain Function in Healthy Volunteers Measured with Arterial Spin Labeling and Blood Oxygen Level-Dependent Resting State Functional Connectivity. <i>Biological Psychiatry</i> , 2015, 78, 554-562.	1.3	136
44	The Relationship between Fearfulness, GABA+, and Fear-Related BOLD Responses in the Insula. <i>PLoS ONE</i> , 2015, 10, e0120101.	2.5	16
45	Understanding the contribution of neural and physiological signal variation to the low repeatability of emotion-induced BOLD responses. <i>NeuroImage</i> , 2014, 86, 335-342.	4.2	40
46	Early anti-correlated BOLD signal changes of physiologic origin. <i>NeuroImage</i> , 2014, 87, 287-296.	4.2	33
47	In vivo Assessment of Human Brainstem Cerebrovascular Function: A Multi-Inversion Time Pulsed Arterial Spin Labelling Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 956-963.	4.3	5
48	Anatomical and functional overlap within the insula and anterior cingulate cortex during interoception and phobic symptom provocation. <i>Human Brain Mapping</i> , 2013, 34, 1220-1229.	3.6	64
49	Reliable quantification of BOLD fMRI cerebrovascular reactivity despite poor breath-hold performance. <i>NeuroImage</i> , 2013, 83, 559-568.	4.2	145
50	Temporal dynamics of lactate concentration in the human brain during acute inspiratory hypoxia. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 739-745.	3.4	18
51	Measurement of OEF and absolute CMRO2: MRI-based methods using interleaved and combined hypercapnia and hyperoxia. <i>NeuroImage</i> , 2013, 83, 135-147.	4.2	133
52	Resting-state fMRI confounds and cleanup. <i>NeuroImage</i> , 2013, 80, 349-359.	4.2	598
53	The Thalamus and Brainstem Act As Key Hubs in Alterations of Human Brain Network Connectivity Induced by Mild Propofol Sedation. <i>Journal of Neuroscience</i> , 2013, 33, 4024-4031.	3.6	77
54	Removing motion and physiological artifacts from intrinsic BOLD fluctuations using short echo data. <i>NeuroImage</i> , 2013, 64, 526-537.	4.2	80

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55	The effects of altered intrathoracic pressure on resting cerebral blood flow and its response to visual stimulation. <i>NeuroImage</i> , 2013, 66, 479-488.	4.2	19
56	Ventral Striatum Activity in Response to Reward: Differences Between Bipolar I and II Disorders. <i>American Journal of Psychiatry</i> , 2013, 170, 533-541.	7.2	179
57	Cerebral blood flow response to acute hypoxic hypoxia. <i>NMR in Biomedicine</i> , 2013, 26, 1844-1852.	2.8	33
58	Trouble at Rest: How Correlation Patterns and Group Differences Become Distorted After Global Signal Regression. <i>Brain Connectivity</i> , 2012, 2, 25-32.	1.7	805
59	Separating neural and vascular effects of caffeine using simultaneous EEG-fMRI: Differential effects of caffeine on cognitive and sensorimotor brain responses. <i>NeuroImage</i> , 2012, 62, 239-249.	4.2	55
60	Neural correlates of the psychedelic state as determined by fMRI studies with psilocybin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2138-2143.	7.1	789
61	Robustly measuring vascular reactivity differences with breath-hold: Normalising stimulus-evoked and resting state BOLD fMRI data. <i>NeuroImage</i> , 2011, 54, 369-379.	4.2	120
62	Pulsed arterial spin labeling perfusion imaging at 3 T: estimating the number of subjects required in common designs of clinical trials. <i>Magnetic Resonance Imaging</i> , 2011, 29, 1382-1389.	1.8	30
63	Edited MRS is sensitive to changes in lactate concentration during inspiratory hypoxia. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 320-325.	3.4	28
64	Punishing an Error Improves Learning: The Influence of Punishment Magnitude on Error-Related Neural Activity and Subsequent Learning. <i>Journal of Neuroscience</i> , 2010, 30, 15600-15607.	3.6	29
65	Prefrontal and midline interactions mediating behavioural control. <i>European Journal of Neuroscience</i> , 2009, 29, 181-187.	2.6	35
66	Learning from Errors: Error-Related Neural Activity Predicts Improvements in Future Inhibitory Control Performance. <i>Journal of Neuroscience</i> , 2009, 29, 7158-7165.	3.6	40
67	The impact of global signal regression on resting state correlations: Are anti-correlated networks introduced?. <i>NeuroImage</i> , 2009, 44, 893-905.	4.2	2,164
68	fMRI in the presence of task-correlated breathing variations. <i>NeuroImage</i> , 2009, 47, 1092-1104.	4.2	136
69	The effect of respiration variations on independent component analysis results of resting state functional connectivity. <i>Human Brain Mapping</i> , 2008, 29, 740-750.	3.6	268
70	Human Medial Frontal Cortex Activity Predicts Learning from Errors. <i>Cerebral Cortex</i> , 2008, 18, 1933-1940.	2.9	60
71	How long to scan? The relationship between fMRI temporal signal to noise ratio and necessary scan duration. <i>NeuroImage</i> , 2007, 34, 565-574.	4.2	359
72	Mapping the MRI voxel volume in which thermal noise matches physiological noise—Implications for fMRI. <i>NeuroImage</i> , 2007, 34, 542-549.	4.2	143

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73	The Role of a Right Fronto-Parietal Network in Cognitive Control. <i>Journal of Psychophysiology</i> , 2006, 20, 286-296.	0.7	72
74	A Validation of Event-Related fMRI Comparisons Between Users of Cocaine, Nicotine, or Cannabis and Control Subjects. <i>American Journal of Psychiatry</i> , 2006, 163, 1245-1251.	7.2	24
75	Individual differences in the functional neuroanatomy of inhibitory control. <i>Brain Research</i> , 2006, 1105, 130-142.	2.2	238
76	A Validation of Event-Related fMRI Comparisons Between Users of Cocaine, Nicotine, or Cannabis and Control Subjects. <i>American Journal of Psychiatry</i> , 2006, 163, 1245.	7.2	19
77	Cocaine dependence and attention switching within and between verbal and visuospatial working memory. <i>European Journal of Neuroscience</i> , 2005, 21, 1984-1992.	2.6	108
78	Deriving the optimal number of events for an event-related fMRI study based on the spatial extent of activation. <i>NeuroImage</i> , 2005, 27, 771-777.	4.2	51
79	Prefrontal-subcortical dissociations underlying inhibitory control revealed by event-related fMRI. <i>European Journal of Neuroscience</i> , 2004, 19, 3105-3112.	2.6	192
80	A topography of executive functions and their interactions revealed by functional magnetic resonance imaging. <i>Cognitive Brain Research</i> , 2004, 20, 132-143.	3.0	247
81	Pattern recognition approach to the detection of single-trial event-related functional magnetic resonance images. <i>Medical and Biological Engineering and Computing</i> , 2004, 42, 604-609.	2.8	5
82	Predicting Success: Patterns of Cortical Activation and Deactivation Prior to Response Inhibition. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 776-785.	2.3	121
83	Artifactual fMRI group and condition differences driven by performance confounds. <i>NeuroImage</i> , 2004, 21, 219-228.	4.2	72
84	An empirical investigation into the number of subjects required for an event-related fMRI study. <i>NeuroImage</i> , 2004, 22, 879-885.	4.2	146
85	Beyond common resources: the cortical basis for resolving task interference. <i>NeuroImage</i> , 2004, 23, 202-212.	4.2	68
86	Co-ordination within and between verbal and visuospatial working memory: network modulation and anterior frontal recruitment. <i>NeuroImage</i> , 2003, 20, 1298-1308.	4.2	55
87	Areas of the brain concerned with ventilatory load compensation in awake man. <i>Journal of Physiology</i> , 2002, 539, 935-945.	2.9	47
88	Dissociable Executive Functions in the Dynamic Control of Behavior: Inhibition, Error Detection, and Correction. <i>NeuroImage</i> , 2002, 17, 1820-1829.	4.2	870
89	Breathlessness in humans activates insular cortex. <i>NeuroReport</i> , 2000, 11, 2117-2120.	1.2	301
90	The Spatiotemporal Dynamics of Cerebral Autoregulation in Functional Magnetic Resonance Imaging. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	2