Kevin Murphy

List of Publications by Year
in descending order

90	12,630	61984 43	48315 88
papers	citations	h-index	g-index

97	97	97	13010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The impact of global signal regression on resting state correlations: Are anti-correlated networks introduced?. NeuroImage, 2009, 44, 893-905.	4.2	2,164
2	Dissociable Executive Functions in the Dynamic Control of Behavior: Inhibition, Error Detection, and Correction. NeuroImage, 2002, 17, 1820-1829.	4.2	870
3	Towards a consensus regarding global signal regression for resting state functional connectivity MRI. NeuroImage, 2017, 154, 169-173.	4.2	852
4	Trouble at Rest: How Correlation Patterns and Group Differences Become Distorted After Global Signal Regression. Brain Connectivity, 2012, 2, 25-32.	1.7	805
5	Neural correlates of the psychedelic state as determined by fMRI studies with psilocybin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2138-2143.	7.1	789
6	Resting-state fMRI confounds and cleanup. NeuroImage, 2013, 80, 349-359.	4.2	598
7	Neural correlates of the LSD experience revealed by multimodal neuroimaging. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4853-4858.	7.1	586
8	Increased Global Functional Connectivity Correlates with LSD-Induced Ego Dissolution. Current Biology, 2016, 26, 1043-1050.	3.9	371
9	How long to scan? The relationship between fMRI temporal signal to noise ratio and necessary scan duration. NeuroImage, 2007, 34, 565-574.	4.2	359
10	Psilocybin for treatment-resistant depression: fMRI-measured brain mechanisms. Scientific Reports, 2017, 7, 13187.	3.3	346
11	Breathlessness in humans activates insular cortex. NeuroReport, 2000, 11, 2117-2120.	1.2	301
12	The effect of respiration variations on independent component analysis results of resting state functional connectivity. Human Brain Mapping, 2008, 29, 740-750.	3.6	268
13	A topography of executive functions and their interactions revealed by functional magnetic resonance imaging. Cognitive Brain Research, 2004, 20, 132-143.	3.0	247
14	Individual differences in the functional neuroanatomy of inhibitory control. Brain Research, 2006, 1105, 130-142.	2.2	238
15	Prefrontal-subcortical dissociations underlying inhibitory control revealed by event-related fMRI. European Journal of Neuroscience, 2004, 19, 3105-3112.	2.6	192
16	Ventral Striatum Activity in Response to Reward: Differences Between Bipolar I and II Disorders. American Journal of Psychiatry, 2013, 170, 533-541.	7.2	179
17	Is fMRI â€œnoiseâ€•really noise? Resting state nuisance regressors remove variance with network structure. NeuroImage, 2015, 114, 158-169.	4.2	161
18	An empirical investigation into the number of subjects required for an event-related fMRI study. NeuroImage, 2004, 22, 879-885.	4.2	146

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19	Reliable quantification of BOLD fMRI cerebrovascular reactivity despite poor breath-hold performance. NeuroImage, 2013, 83, 559-568.	4.2	145
20	Mapping the MRI voxel volume in which thermal noise matches physiological noiseâ€"Implications for fMRI. NeuroImage, 2007, 34, 542-549.	4.2	143
21	fMRI in the presence of task-correlated breathing variations. NeuroImage, 2009, 47, 1092-1104.	4.2	136
22	The Effects of Acutely Administered 3,4-Methylenedioxymethamphetamine on Spontaneous Brain Function in Healthy Volunteers Measured with Arterial Spin Labeling and Blood Oxygen Levelâ€"Dependent Resting State Functional Connectivity. Biological Psychiatry, 2015, 78, 554-562.	1.3	136
23	Measurement of OEF and absolute CMRO2: MRI-based methods using interleaved and combined hypercapnia and hyperoxia. NeuroImage, 2013, 83, 135-147.	4.2	133
24	Predicting Success: Patterns of Cortical Activation and Deactivation Prior to Response Inhibition. Journal of Cognitive Neuroscience, 2004, 16, 776-785.	2.3	121
25	Robustly measuring vascular reactivity differences with breath-hold: Normalising stimulus-evoked and resting state BOLD fMRI data. NeuroImage, 2011, 54, 369-379.	4.2	120
26	Cocaine dependence and attention switching within and between verbal and visuospatial working memory. European Journal of Neuroscience, 2005, 21, 1984-1992.	2.6	108
27	Potential pitfalls when denoising resting state fMRI data using nuisance regression. NeuroImage, 2017, 154, 159-168.	4.2	105
28	Emotion regulation deficits in euthymic bipolar I versus bipolar <scp>II</scp> disorder: a functional and diffusionâ€tensor imaging study. Bipolar Disorders, 2015, 17, 461-470.	1.9	93
29	Removing motion and physiological artifacts from intrinsic BOLD fluctuations using short echo data. NeuroImage, 2013, 64, 526-537.	4.2	80
30	The Thalamus and Brainstem Act As Key Hubs in Alterations of Human Brain Network Connectivity Induced by Mild Propofol Sedation. Journal of Neuroscience, 2013, 33, 4024-4031.	3.6	77
31	Artifactual fMRI group and condition differences driven by performance confounds. NeuroImage, 2004, 21, 219-228.	4.2	72
32	The Role of a Right Fronto-Parietal Network in Cognitive Control. Journal of Psychophysiology, 2006, 20, 286-296.	0.7	72
33	Beyond common resources: the cortical basis for resolving task interference. NeuroImage, 2004, 23, 202-212.	4.2	68
34	Vascular physiology drives functional brain networks. NeuroImage, 2020, 217, 116907.	4.2	66
35	Measuring vascular reactivity with breathâ€holds after stroke: A method to aid interpretation of groupâ€level <scp>BOLD</scp> signal changes in longitudinal f<scp>MRI</scp> studies. Human Brain Mapping, 2015, 36, 1755-1771.	3.6	65
36	Anatomical and functional overlap within the insula and anterior cingulate cortex during interoception and phobic symptom provocation. Human Brain Mapping, 2013, 34, 1220-1229.	3.6	64

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37	Human Medial Frontal Cortex Activity Predicts Learning from Errors. Cerebral Cortex, 2008, 18, 1933-1940.	2.9	60
38	The Functional Connectivity Between the Nucleus Accumbens and the Ventromedial Prefrontal Cortex as an Endophenotype for Bipolar Disorder. Biological Psychiatry, 2018, 84, 803-809.	1.3	58
39	Agreement and repeatability of vascular reactivity estimates based on a breath-hold task and a resting state scan. NeuroImage, 2015, 113, 387-396.	4.2	57
40	Co-ordination within and between verbal and visuospatial working memory: network modulation and anterior frontal recruitment. NeuroImage, 2003, 20, 1298-1308.	4.2	55
41	Separating neural and vascular effects of caffeine using simultaneous EEGâ€“FMRI: Differential effects of caffeine on cognitive and sensorimotor brain responses. NeuroImage, 2012, 62, 239-249.	4.2	55
42	Deriving the optimal number of events for an event-related fMRI study based on the spatial extent of activation. NeuroImage, 2005, 27, 771-777.	4.2	51
43	The absolute CBF response to activation is preserved during elevated perfusion: Implications for neurovascular coupling measures. NeuroImage, 2016, 125, 198-207.	4.2	50
44	Areas of the brain concerned with ventilatory load compensation in awake man. Journal of Physiology, 2002, 539, 935-945.	2.9	47
45	Mapping the pharmacological modulation of brain oxygen metabolism: The effects of caffeine on absolute CMRO2 measured using dual calibrated fMRI. NeuroImage, 2017, 155, 331-343.	4.2	43
46	Spontaneous physiological variability modulates dynamic functional connectivity in resting-state functional magnetic resonance imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150183.	3.4	41
47	Learning from Errors: Error-Related Neural Activity Predicts Improvements in Future Inhibitory Control Performance. Journal of Neuroscience, 2009, 29, 7158-7165.	3.6	40
48	Understanding the contribution of neural and physiological signal variation to the low repeatability of emotion-induced BOLD responses. NeuroImage, 2014, 86, 335-342.	4.2	40
49	Cerebral Autoregulation Evidenced by Synchronized Low Frequency Oscillations in Blood Pressure and Resting-State fMRI. Frontiers in Neuroscience, 2019, 13, 433.	2.8	40
50	Arterial CO ₂ Fluctuations Modulate Neuronal Rhythmicity: Implications for MEG and fMRI Studies of Resting-State Networks. Journal of Neuroscience, 2016, 36, 8541-8550.	3.6	39
51	Rude mechanicals in brain haemodynamics: non-neural actors that influence blood flow. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190635.	4.0	39
52	The major cerebral arteries proximal to the Circle of Willis contribute to cerebrovascular resistance in humans. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1384-1395.	4.3	36
53	Prefrontal and midline interactions mediating behavioural control. European Journal of Neuroscience, 2009, 29, 181-187.	2.6	35
54	Cerebral blood flow response to acute hypoxic hypoxia. NMR in Biomedicine, 2013, 26, 1844-1852.	2.8	33

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55	Early anti-correlated BOLD signal changes of physiologic origin. NeuroImage, 2014, 87, 287-296.	4.2	33
56	A forward modelling approach for the estimation of oxygen extraction fraction by calibrated fMRI. NeuroImage, 2016, 139, 313-323.	4.2	31
57	Pulsed arterial spin labeling perfusion imaging at 3 T: estimating the number of subjects required in common designs of clinical trials. Magnetic Resonance Imaging, 2011, 29, 1382-1389.	1.8	30
58	Punishing an Error Improves Learning: The Influence of Punishment Magnitude on Error-Related Neural Activity and Subsequent Learning. Journal of Neuroscience, 2010, 30, 15600-15607.	3.6	29
59	Noninvasive Assessment of Arterial Compliance of Human Cerebral Arteries with Short Inversion Time Arterial Spin Labeling. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 461-468.	4.3	29
60	Edited MRS is sensitive to changes in lactate concentration during inspiratory hypoxia. Journal of Magnetic Resonance Imaging, 2010, 32, 320-325.	3.4	28
61	Measurement of oxygen extraction fraction (OEF): An optimized BOLD signal model for use with hypercapnic and hyperoxic calibration. NeuroImage, 2016, 129, 159-174.	4.2	28
62	A Validation of Event-Related fMRI Comparisons Between Users of Cocaine, Nicotine, or Cannabis and Control Subjects. American Journal of Psychiatry, 2006, 163, 1245-1251.	7.2	24
63	Cleaning up the fMRI time series: Mitigating noise with advanced acquisition and correction strategies. NeuroImage, 2017, 154, 1-3.	4.2	21
64	Graded Hypercapnia-Calibrated BOLD: Beyond the Iso-metabolic Hypercapnic Assumption. Frontiers in Neuroscience, 2017, 11, 276.	2.8	20
65	The effects of altered intrathoracic pressure on resting cerebral blood flow and its response to visual stimulation. NeuroImage, 2013, 66, 479-488.	4.2	19
66	Assessing the repeatability of absolute CMRO2, OEF and haemodynamic measurements from calibrated fMRI. NeuroImage, 2018, 173, 113-126.	4.2	19
67	Polygenic impact of common genetic risk loci for Alzheimerâ€™s disease on cerebral blood flow in young individuals. Scientific Reports, 2019, 9, 467.	3.3	19
68	A Validation of Event-Related fMRI Comparisons Between Users of Cocaine, Nicotine, or Cannabis and Control Subjects. American Journal of Psychiatry, 2006, 163, 1245.	7.2	19
69	Temporal dynamics of lactate concentration in the human brain during acute inspiratory hypoxia. Journal of Magnetic Resonance Imaging, 2013, 37, 739-745.	3.4	18
70	Changes in arterial cerebral blood volume during lower body negative pressure measured with MRI. NeuroImage, 2019, 187, 166-175.	4.2	16
71	The Relationship between Fearfulness, GABA+, and Fear-Related BOLD Responses in the Insula. PLoS ONE, 2015, 10, e0120101.	2.5	16
72	Acute effects of MDMA on trust, cooperative behaviour and empathy: A double-blind, placebo-controlled experiment. Journal of Psychopharmacology, 2021, 35, 547-555.	4.0	15

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73	Cerebrovascular Function in the Large Arteries Is Maintained Following Moderate Intensity Exercise. Frontiers in Physiology, 2018, 9, 1657.	2.8	14
74	Hypertension, Antihypertensive Use and the Delayedâ€Onset of Huntington's Disease. Movement Disorders, 2020, 35, 937-946.	3.9	13
75	Frontolimbic, Frontoparietal, and Default Mode Involvement in Functional Dysconnectivity in Psychotic Bipolar Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 140-151.	1.5	11
76	Correlation between baseline blood pressure and the brainstem FMRI response to isometric forearm contraction in human volunteers: a pilot study. Journal of Human Hypertension, 2015, 29, 449-455.	2.2	10
77	Resting-State Network Patterns Underlying Cognitive Function in Bipolar Disorder: A Graph Theoretical Analysis. Brain Connectivity, 2020, 10, 355-367.	1.7	10
78	Polygenic risk for Alzheimer's disease shapes hippocampal scene-selectivity. Neuropsychopharmacology, 2020, 45, 1171-1178.	5.4	8
79	Effects of genomic copy number variants penetrant for schizophrenia on cortical thickness and surface area in healthy individuals: analysis of the UK Biobank. British Journal of Psychiatry, 2021, 218, 104-111.	2.8	8
80	Attention Diversion Improves Response Inhibition of Immediate Reward, But Only When it Is Beneficial: An fMRI Study. Frontiers in Human Neuroscience, 2016, 10, 429.	2.0	6
81	A Frequency-Domain Machine Learning Method for Dual-Calibrated fMRI Mapping of Oxygen Extraction Fraction (OEF) and Cerebral Metabolic Rate of Oxygen Consumption (CMRO2). Frontiers in Artificial Intelligence, 2020, 3, .	3.4	6
82	Rigid motionâ€resolved prediction using deep learning for realâ€time parallelâ€transmission pulse design. Magnetic Resonance in Medicine, 2022, 87, 2254-2270.	3.0	6
83	Pattern recognition approach to the detection of single-trial event-related functional magnetic resonance images. Medical and Biological Engineering and Computing, 2004, 42, 604-609.	2.8	5
84	In vivo Assessment of Human Brainstem Cerebrovascular Function: A Multi-Inversion Time Pulsed Arterial Spin Labelling Study. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 956-963.	4.3	5
85	Altered cerebrovascular response to acute exercise in patients with Huntingtonâ€™s disease. Brain Communications, 2020, 2, fcaa044.	3.3	5
86	Estimation of voxel-wise dynamic cerebrovascular reactivity curves from resting-state fMRI data. , 2016, 2016, 1143-1146.		3
87	The Spatiotemporal Dynamics of Cerebral Autoregulation in Functional Magnetic Resonance Imaging. Frontiers in Neuroscience, 0, 16, .	2.8	2
88	A flow-diffusion model of oxygen transport for quantitative mapping of cerebral metabolic rate of oxygen (CMRO₂) with single gas calibrated fMRI. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1192-1209.	4.3	1
89	E08â€…Cerebral blood flow is associated with disease severity and cognitive defecits in pre/early huntingtonâ€™s disease. , 2018, , .		0
90	Measuring Arterial Pulsatility With Dynamic Inflow Magnitude Contrast. Frontiers in Neuroscience, 2021, 15, 795749.	2.8	0