

Karen J Mullinger

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,940
citations

201385

27
h-index

182168

51
g-index

59
all docs

59
docs citations

59
times ranked

3277
citing authors

#	ARTICLE	IF	CITATIONS
1	Moving magnetoencephalography towards real-world applications with a wearable system. <i>Nature</i> , 2018, 555, 657-661.	13.7	795
2	Properties of the ballistocardiogram artefact as revealed by EEG recordings at 1.5, 3 and 7 T static magnetic field strength. <i>International Journal of Psychophysiology</i> , 2008, 67, 189-199.	0.5	182
3	Evidence that the negative BOLD response is neuronal in origin: A simultaneous EEG-BOLD-CBF study in humans. <i>NeuroImage</i> , 2014, 94, 263-274.	2.1	137
4	Alpha/beta power decreases track the fidelity of stimulus-specific information. <i>ELife</i> , 2019, 8, .	2.8	104
5	Reference layer artefact subtraction (RLAS): A novel method of minimizing EEG artefacts during simultaneous fMRI. <i>NeuroImage</i> , 2014, 84, 307-319.	2.1	88
6	Relationships Between Neuronal Oscillatory Amplitude and Dynamic Functional Connectivity. <i>Cerebral Cortex</i> , 2019, 29, 2668-2681.	1.6	85
7	Poststimulus undershoots in cerebral blood flow and BOLD fMRI responses are modulated by poststimulus neuronal activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13636-13641.	3.3	83
8	Wearable neuroimaging: Combining and contrasting magnetoencephalography and electroencephalography. <i>NeuroImage</i> , 2019, 201, 116099.	2.1	82
9	Theta power during encoding predicts subsequent memory performance and default mode network deactivation. <i>Human Brain Mapping</i> , 2013, 34, 2929-2943.	1.9	79
10	Effects of simultaneous EEG recording on MRI data quality at 1.5, 3 and 7 Tesla. <i>International Journal of Psychophysiology</i> , 2008, 67, 178-188.	0.5	73
11	Identifying the sources of the pulse artefact in EEG recordings made inside an MR scanner. <i>NeuroImage</i> , 2013, 71, 75-83.	2.1	66
12	Improved artifact correction for combined electroencephalography/functional MRI by means of synchronization and use of vectorcardiogram recordings. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 607-616.	1.9	65
13	Simultaneous EEG source localisation and artifact rejection during concurrent fMRI by means of spatial filtering. <i>NeuroImage</i> , 2008, 40, 1090-1104.	2.1	65
14	Modulation of post-movement beta rebound by contraction force and rate of force development. <i>Human Brain Mapping</i> , 2016, 37, 2493-2511.	1.9	65
15	Reducing the gradient artefact in simultaneous EEG-fMRI by adjusting the subject's axial position. <i>NeuroImage</i> , 2011, 54, 1942-1950.	2.1	64
16	The role of transient spectral bursts in functional connectivity: A magnetoencephalography study. <i>NeuroImage</i> , 2020, 209, 116537.	2.1	60
17	Understanding gradient artefacts in simultaneous EEG/fMRI. <i>NeuroImage</i> , 2009, 46, 459-471.	2.1	56
18	Motion-related artefacts in EEG predict neuronally plausible patterns of activation in fMRI data. <i>NeuroImage</i> , 2012, 59, 261-270.	2.1	56

#	ARTICLE	IF	CITATIONS
19	Physical modeling of pulse artefact sources in simultaneous EEG/fMRI. <i>Human Brain Mapping</i> , 2010, 31, 604-620.	1.9	55
20	Two spatiotemporally distinct value systems shape reward-based learning in the human brain. <i>Nature Communications</i> , 2015, 6, 8107.	5.8	55
21	Exploring the feasibility of simultaneous electroencephalography/functional magnetic resonance imaging at 7 T. <i>Magnetic Resonance Imaging</i> , 2008, 26, 968-977.	1.0	53
22	Two Spatially Distinct Posterior Alpha Sources Fulfill Different Functional Roles in Attention. <i>Journal of Neuroscience</i> , 2019, 39, 7183-7194.	1.7	47
23	Spatiotemporal neural characterization of prediction error valence and surprise during reward learning in humans. <i>Scientific Reports</i> , 2017, 7, 4762.	1.6	41
24	Post-stimulus fMRI and EEG responses: Evidence for a neuronal origin hypothesised to be inhibitory. <i>NeuroImage</i> , 2017, 157, 388-399.	2.1	40
25	Combining EEG and fMRI. <i>Methods in Molecular Biology</i> , 2011, 711, 303-326.	0.4	38
26	Comparison of functional thalamic segmentation from seed-based analysis and ICA. <i>NeuroImage</i> , 2015, 114, 448-465.	2.1	37
27	Exploring the advantages of multiband fMRI with simultaneous EEG to investigate coupling between gamma frequency neural activity and the BOLD response in humans. <i>Human Brain Mapping</i> , 2018, 39, 1673-1687.	1.9	34
28	Source localisation in concurrent EEG/fMRI: Applications at 7T. <i>NeuroImage</i> , 2009, 45, 440-452.	2.1	32
29	Best Current Practice for Obtaining High Quality EEG Data During Simultaneous fMRI. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	32
30	Spurious correlations in simultaneous EEG-fMRI driven by in-scanner movement. <i>NeuroImage</i> , 2016, 133, 354-366.	2.1	32
31	The CO ₂ stimulus duration and steady-state time point used for data extraction alters the cerebrovascular reactivity outcome measure. <i>Experimental Physiology</i> , 2020, 105, 893-903.	0.9	28
32	Global signal modulation of single-trial fMRI response variability: Effect on positive vs negative BOLD response relationship. <i>NeuroImage</i> , 2016, 133, 62-74.	2.1	22
33	Contrasting Measures of Cerebrovascular Reactivity Between MRI and Doppler: A Cross-Sectional Study of Younger and Older Healthy Individuals. <i>Frontiers in Physiology</i> , 2021, 12, 656746.	1.3	16
34	Simultaneous EEG-fMRI: evaluating the effect of the cabling configuration on the gradient artefact. <i>Physics in Medicine and Biology</i> , 2015, 60, N241-N250.	1.6	15
35	Post-stimulus beta responses are modulated by task duration. <i>NeuroImage</i> , 2020, 206, 116288.	2.1	15
36	Investigating intrinsic connectivity networks using simultaneous BOLD and CBF measurements. <i>NeuroImage</i> , 2014, 99, 111-121.	2.1	14

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37	The relationship between negative BOLD responses and ERS and ERD of alpha/beta oscillations in visual and motor cortex. <i>NeuroImage</i> , 2019, 199, 635-650.	2.1	14
38	Exploring the relative efficacy of motion artefact correction techniques for EEG data acquired during simultaneous fMRI. <i>Human Brain Mapping</i> , 2019, 40, 578-596.	1.9	12
39	The effect of physical fatigue on oscillatory dynamics of the sensorimotor cortex. <i>Acta Physiologica</i> , 2017, 220, 370-381.	1.8	11
40	Exploring the origins of EEG motion artefacts during simultaneous fMRI acquisition: Implications for motion artefact correction. <i>NeuroImage</i> , 2018, 173, 188-198.	2.1	11
41	Decoding fMRI events in sensorimotor motor network using sparse paradigm free mapping and activation likelihood estimates. <i>Human Brain Mapping</i> , 2017, 38, 5778-5794.	1.9	10
42	Measuring resting cerebral haemodynamics using MRI arterial spin labelling and transcranial Doppler ultrasound: Comparison in younger and older adults. <i>Brain and Behavior</i> , 2021, 11, e02126.	1.0	10
43	Across the adult lifespan the ipsilateral sensorimotor cortex negative BOLD response exhibits decreases in magnitude and spatial extent suggesting declining inhibitory control. <i>NeuroImage</i> , 2022, 253, 119081.	2.1	10
44	Addressing challenges of high spatial resolution UHF fMRI for group analysis of higher-order cognitive tasks: An inter-sensory task directing attention between visual and somatosensory domains. <i>Human Brain Mapping</i> , 2019, 40, 1298-1316.	1.9	8
45	Changes in electrophysiological markers of cognitive control after administration of galantamine. <i>NeuroImage: Clinical</i> , 2018, 20, 228-235.	1.4	7
46	Simultaneous EEG-fMRI: Evaluating the Effect of the EEG Cap-Cabling Configuration on the Gradient Artifact. <i>Frontiers in Neuroscience</i> , 2019, 13, 690.	1.4	7
47	Investigating the effect of modifying the EEG cap lead configuration on the gradient artifact in simultaneous EEG-fMRI. <i>Frontiers in Neuroscience</i> , 2014, 8, 226.	1.4	6
48	Regional Brain Correlates of Beta Bursts in Health and Psychosis: A Concurrent Electroencephalography and Functional Magnetic Resonance Imaging Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 6, 1145-1156.	1.1	6
49	Reference Layer Artefact Subtraction (RLAS): Electromagnetic Simulations. <i>IEEE Access</i> , 2019, 7, 17882-17895.	2.6	5
50	Assessing Cerebrovascular Responsiveness. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 825.	0.2	3
51	Imaging Cerebral Blood Flow for Brain Health Measurement. , 2022, , 126-135.		2
52	2.4 Influence of EEG Equipment on MR Image Quality. , 2010, , 107-118.		1
53	Beta-frequency electrophysiological bursts: BOLD correlates and relationships with psychotic illness. <i>BJPsych Open</i> , 2021, 7, S37-S38.	0.3	0
54	Specific Issues Related to EEG-fMRI at B 0 > 3 T. , 2009, , 201-220.		0