

# Karen J Mullinger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6302244/publications.pdf>

Version: 2024-02-01

54  
papers

2,940  
citations

201674  
27  
h-index

182427  
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. Nature, 2018, 555, 657-661.	27.8	795
2	Properties of the ballistocardiogram artefact as revealed by EEG recordings at 1.5, 3 and 7 T static magnetic field strength. International Journal of Psychophysiology, 2008, 67, 189-199.	1.0	182
3	Evidence that the negative BOLD response is neuronal in origin: A simultaneous EEG-BOLD-CBF study in humans. NeuroImage, 2014, 94, 263-274.	4.2	137
4	Alpha/beta power decreases track the fidelity of stimulus-specific information. ELife, 2019, 8, .	6.0	104
5	Reference layer artefact subtraction (RLAS): A novel method of minimizing EEG artefacts during simultaneous fMRI. NeuroImage, 2014, 84, 307-319.	4.2	88
6	Relationships Between Neuronal Oscillatory Amplitude and Dynamic Functional Connectivity. Cerebral Cortex, 2019, 29, 2668-2681.	2.9	85
7	Poststimulus undershoots in cerebral blood flow and BOLD fMRI responses are modulated by poststimulus neuronal activity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13636-13641.	7.1	83
8	Wearable neuroimaging: Combining and contrasting magnetoencephalography and electroencephalography. NeuroImage, 2019, 201, 116099.	4.2	82
9	Theta power during encoding predicts subsequent memory performance and default mode network deactivation. Human Brain Mapping, 2013, 34, 2929-2943.	3.6	79
10	Effects of simultaneous EEG recording on MRI data quality at 1.5, 3 and 7 Tesla. International Journal of Psychophysiology, 2008, 67, 178-188.	1.0	73
11	Identifying the sources of the pulse artefact in EEG recordings made inside an MR scanner. NeuroImage, 2013, 71, 75-83.	4.2	66
12	Improved artifact correction for combined electroencephalography/functional MRI by means of synchronization and use of vectorcardiogram recordings. Journal of Magnetic Resonance Imaging, 2008, 27, 607-616.	3.4	65
13	Simultaneous EEG source localisation and artifact rejection during concurrent fMRI by means of spatial filtering. NeuroImage, 2008, 40, 1090-1104.	4.2	65
14	Modulation of post-movement beta rebound by contraction force and rate of force development. Human Brain Mapping, 2016, 37, 2493-2511.	3.6	65
15	Reducing the gradient artefact in simultaneous EEG-fMRI by adjusting the subject's axial position. NeuroImage, 2011, 54, 1942-1950.	4.2	64
16	The role of transient spectral "bursts" in functional connectivity: A magnetoencephalography study. NeuroImage, 2020, 209, 116537.	4.2	60
17	Understanding gradient artefacts in simultaneous EEG/fMRI. NeuroImage, 2009, 46, 459-471.	4.2	56
18	Motion-related artefacts in EEG predict neuronally plausible patterns of activation in fMRI data. NeuroImage, 2012, 59, 261-270.	4.2	56

#	ARTICLE	IF	CITATIONS
19	Physical modeling of pulse artefact sources in simultaneous EEG/fMRI. Human Brain Mapping, 2010, 31, 604-620.	3.6	55
20	Two spatiotemporally distinct value systems shape reward-based learning in the human brain. Nature Communications, 2015, 6, 8107.	12.8	55
21	Exploring the feasibility of simultaneous electroencephalography/functional magnetic resonance imaging at 7 T. Magnetic Resonance Imaging, 2008, 26, 968-977.	1.8	53
22	Two Spatially Distinct Posterior Alpha Sources Fulfill Different Functional Roles in Attention. Journal of Neuroscience, 2019, 39, 7183-7194.	3.6	47
23	Spatiotemporal neural characterization of prediction error valence and surprise during reward learning in humans. Scientific Reports, 2017, 7, 4762.	3.3	41
24	Post-stimulus fMRI and EEG responses: Evidence for a neuronal origin hypothesised to be inhibitory. NeuroImage, 2017, 157, 388-399.	4.2	40
25	Combining EEG and fMRI. Methods in Molecular Biology, 2011, 711, 303-326.	0.9	38
26	Comparison of functional thalamic segmentation from seed-based analysis and ICA. NeuroImage, 2015, 114, 448-465.	4.2	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. Human Brain Mapping, 2018, 39, 1673-1687.	3.6	34
28	Source localisation in concurrent EEG/fMRI: Applications at 7T. NeuroImage, 2009, 45, 440-452.	4.2	32
29	Best Current Practice for Obtaining High Quality EEG Data During Simultaneous fMRI. Journal of Visualized Experiments, 2013, , .	0.3	32
30	Spurious correlations in simultaneous EEG-fMRI driven by in-scanner movement. NeuroImage, 2016, 133, 354-366.	4.2	32
31	The CO <sub>2</sub> stimulus duration and steady-state time point used for data extraction alters the cerebrovascular reactivity outcome measure. Experimental Physiology, 2020, 105, 893-903.	2.0	28
32	Global signal modulation of single-trial fMRI response variability: Effect on positive vs negative BOLD response relationship. NeuroImage, 2016, 133, 62-74.	4.2	22
33	Contrasting Measures of Cerebrovascular Reactivity Between MRI and Doppler: A Cross-Sectional Study of Younger and Older Healthy Individuals. Frontiers in Physiology, 2021, 12, 656746.	2.8	16
34	Simultaneous EEG-fMRI: evaluating the effect of the cabling configuration on the gradient artefact. Physics in Medicine and Biology, 2015, 60, N241-N250.	3.0	15
35	Post-stimulus beta responses are modulated by task duration. NeuroImage, 2020, 206, 116288.	4.2	15
36	Investigating intrinsic connectivity networks using simultaneous BOLD and CBF measurements. NeuroImage, 2014, 99, 111-121.	4.2	14

#	ARTICLE	IF	CITATIONS
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.	4.2	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.	3.6	12
39	The effect of physical fatigue on oscillatory dynamics of the sensorimotor cortex. <i>Acta Physiologica</i> , 2017, 220, 370-381.	3.8	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.	4.2	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.	3.6	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.	2.2	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.	4.2	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.	3.6	8
45	Changes in electrophysiological markers of cognitive control after administration of galantamine. <i>NeuroImage: Clinical</i> , 2018, 20, 228-235.	2.7	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.	2.8	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.	2.8	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.	1.5	6
49	Reference Layer Artefact Subtraction (RLAS): Electromagnetic Simulations. <i>IEEE Access</i> , 2019, 7, 17882-17895.	4.2	5
50	Assessing Cerebrovascular Responsiveness. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 825.	0.4	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.	0.7	0
54	Specific Issues Related to EEG-fMRI at B 0 > 3 T. , 2009, , 201-220.		0