

David W Carmichael

List of Publications by Year in descending order

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76
papers

3,350
citations

147801

31
h-index

161849

54
g-index

84
all docs

84
docs citations

84
times ranked

4166
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling large motion events in fMRI studies of patients with epilepsy. <i>Magnetic Resonance Imaging</i> , 2007, 25, 894-901.	1.8	222
2	Network Connectivity in Epilepsy: Resting State fMRI and EEG-fMRI Contributions. <i>Frontiers in Neurology</i> , 2014, 5, 93.	2.4	159
3	Externally induced frontoparietal synchronization modulates network dynamics and enhances working memory performance. <i>ELife</i> , 2017, 6, .	6.0	147
4	Causal Hierarchy within the Thalamo-Cortical Network in Spike and Wave Discharges. <i>PLoS ONE</i> , 2009, 4, e6475.	2.5	141
5	Electrophysiological correlates of the BOLD signal for EEG-informed fMRI. <i>Human Brain Mapping</i> , 2015, 36, 391-414.	3.6	137
6	Simultaneous intracranial EEG and fMRI of interictal epileptic discharges in humans. <i>NeuroImage</i> , 2011, 54, 182-190.	4.2	124
7	EEG correlated functional MRI and postoperative outcome in focal epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 922-927.	1.9	122
8	Epileptic networks in focal cortical dysplasia revealed using electroencephalography-fMRI. <i>Annals of Neurology</i> , 2011, 70, 822-837.	5.3	116
9	Brain state and polarity dependent modulation of brain networks by transcranial direct current stimulation. <i>Human Brain Mapping</i> , 2019, 40, 904-915.	3.6	108
10	Functional MRI with active, fully implanted, deep brain stimulation systems: Safety and experimental confounds. <i>NeuroImage</i> , 2007, 37, 508-517.	4.2	103
11	BOLD and perfusion changes during epileptic generalised spike wave activity. <i>NeuroImage</i> , 2008, 39, 608-618.	4.2	95
12	Noncanonical spike-related BOLD responses in focal epilepsy. <i>Human Brain Mapping</i> , 2007, 29, 329-345.	3.6	91
13	Relating resting-state fMRI and EEG whole-brain connectomes across frequency bands. <i>Frontiers in Neuroscience</i> , 2014, 8, 258.	2.8	89
14	Current use of imaging and electromagnetic source localization procedures in epilepsy surgery centers across Europe. <i>Epilepsia</i> , 2016, 57, 770-776.	5.1	89
15	Feasibility of simultaneous intracranial EEG-fMRI in humans: A safety study. <i>NeuroImage</i> , 2010, 49, 379-390.	4.2	85
16	Connectivity of the supplementary motor area in juvenile myoclonic epilepsy and frontal lobe epilepsy. <i>Epilepsia</i> , 2011, 52, 507-514.	5.1	85
17	Novel surface features for automated detection of focal cortical dysplasias in paediatric epilepsy. <i>NeuroImage: Clinical</i> , 2017, 14, 18-27.	2.7	84
18	Safety of localizing epilepsy monitoring intracranial electroencephalograph electrodes using MRI: Radiofrequency-induced heating. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1233-1244.	3.4	74

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19	Cascades and Cognitive State: Focused Attention Incurs Subcritical Dynamics. <i>Journal of Neuroscience</i> , 2015, 35, 4626-4634.	3.6	71
20	EEG-fMRI in the presurgical evaluation of temporal lobe epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 642-649.	1.9	69
21	Mapping preictal and ictal haemodynamic networks using video-electroencephalography and functional imaging. <i>Brain</i> , 2012, 135, 3645-3663.	7.6	61
22	NODDI and Tensor-Based Microstructural Indices as Predictors of Functional Connectivity. <i>PLoS ONE</i> , 2016, 11, e0153404.	2.5	60
23	Dynamic brain network states in human generalized spike-wave discharges. <i>Brain</i> , 2018, 141, 2981-2994.	7.6	56
24	FIACH: A biophysical model for automatic retrospective noise control in fMRI. <i>NeuroImage</i> , 2016, 124, 1009-1020.	4.2	53
25	Towards network-guided neuromodulation for epilepsy. <i>Brain</i> , 2022, 145, 3347-3362.	7.6	51
26	Networks involved in seizure initiation. <i>Neurology</i> , 2012, 79, 249-253.	1.1	48
27	Combined electroencephalography and functional magnetic resonance imaging and electrical source imaging improves localization of pediatric focal epilepsy. <i>Annals of Neurology</i> , 2017, 82, 278-287.	5.3	45
28	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. <i>Journal of Neuroscience Methods</i> , 2017, 277, 101-112.	2.5	39
29	Thalamic volume reduction in drug-naïve patients with new-onset genetic generalized epilepsy. <i>Epilepsia</i> , 2018, 59, 226-234.	5.1	38
30	Epileptic networks are strongly connected with and without the effects of interictal discharges. <i>Epilepsia</i> , 2016, 57, 1086-1096.	5.1	36
31	Towards motion insensitive EEG-fMRI: Correcting motion-induced voltages and gradient artefact instability in EEG using an fMRI prospective motion correction (PMC) system. <i>NeuroImage</i> , 2016, 138, 13-27.	4.2	35
32	Towards in vivo focal cortical dysplasia phenotyping using quantitative MRI. <i>NeuroImage: Clinical</i> , 2017, 15, 95-105.	2.7	34
33	The effect of local perturbation fields on human DTI: Characterisation, measurement and correction. <i>NeuroImage</i> , 2012, 60, 562-570.	4.2	33
34	Interictal activity is an important contributor to abnormal intrinsic network connectivity in paediatric focal epilepsy. <i>Human Brain Mapping</i> , 2017, 38, 221-236.	3.6	33
35	Simultaneous Intracranial EEG-fMRI Shows Inter-Modality Correlation in Time-Resolved Connectivity Within Normal Areas but Not Within Epileptic Regions. <i>Brain Topography</i> , 2017, 30, 639-655.	1.8	32
36	Optimising EEG-fMRI for Localisation of Focal Epilepsy in Children. <i>PLoS ONE</i> , 2016, 11, e0149048.	2.5	32

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37	Cognitive enhancement with Salience Network electrical stimulation is influenced by network structural connectivity. <i>NeuroImage</i> , 2019, 185, 425-433.	4.2	30
38	An investigation of the relationship between BOLD and perfusion signal changes during epileptic generalised spike wave activity. <i>Magnetic Resonance Imaging</i> , 2008, 26, 870-873.	1.8	29
39	Traumatic axonal injury influences the cognitive effect of non-invasive brain stimulation. <i>Brain</i> , 2019, 142, 3280-3293.	7.6	25
40	Generalized Spike and Waves: Effect of Discharge Duration on Brain Networks as Revealed by BOLD fMRI. <i>Brain Topography</i> , 2014, 27, 123-137.	1.8	24
41	Improving whole brain structural MRI at 4.7 Tesla using 4 irregularly shaped receiver coils. <i>NeuroImage</i> , 2006, 32, 1176-1184.	4.2	23
42	Diffusion-weighted perinatal postmortem magnetic resonance imaging as a marker of postmortem interval. <i>European Radiology</i> , 2015, 25, 1399-1406.	4.5	23
43	Mapping human preictal and ictal haemodynamic networks using simultaneous intracranial EEG-fMRI. <i>NeuroImage: Clinical</i> , 2016, 11, 486-493.	2.7	20
44	Optimal repetition time reduction for single subject event-related functional magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1890-1897.	3.0	20
45	Imaging the interaction: Epileptic discharges, working memory, and behavior. <i>Human Brain Mapping</i> , 2013, 34, 2910-2917.	3.6	17
46	Sensorimotor network hypersynchrony as an endophenotype in families with genetic generalized epilepsy: A resting-state functional magnetic resonance imaging study. <i>Epilepsia</i> , 2019, 60, e14-e19.	5.1	16
47	MRI profiling of focal cortical dysplasia using multi-compartment diffusion models. <i>Epilepsia</i> , 2020, 61, 433-444.	5.1	16
48	Implementation and evaluation of simultaneous video-electroencephalography and functional magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2010, 28, 1192-1199.	1.8	15
49	Neural Activity Elicited by a Cognitive Task can be Detected in Single-Trials with Simultaneous Intracerebral EEG-fMRI Recordings. <i>International Journal of Neural Systems</i> , 2017, 27, 1750001.	5.2	14
50	Safety of Simultaneous Scalp or Intracranial EEG during MRI: A Review. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	13
51	Greater Hypoxia-Induced Cell Death in Prenatal Brain after Bacterial-Endotoxin Pretreatment is not Because of Enhanced Cerebral Energy Depletion: A Chicken Embryo Model of the Intrapartum Response to Hypoxia and Infection. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 948-960.	4.3	12
52	Flexible proton density (PD) mapping using multi-contrast variable flip angle (VFA) data. <i>NeuroImage</i> , 2019, 186, 464-475.	4.2	12
53	Functional Connectivity of the Anterior Nucleus of the Thalamus in Pediatric Focal Epilepsy. <i>Frontiers in Neurology</i> , 2021, 12, 670881.	2.4	12
54	Quantitative MRI susceptibility mapping reveals cortical signatures of changes in iron, calcium and zinc in malformations of cortical development in children with drug-resistant epilepsy. <i>NeuroImage</i> , 2021, 238, 118102.	4.2	11

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55	Diagnostic value of MRI in the presurgical evaluation of patients with epilepsy: influence of field strength and sequence selection: a systematic review and meta-analysis from the EPILEPSY Consortium. <i>Epileptic Disorders</i> , 2022, 24, 323-342.	1.3	11
56	Method for spatially interleaving two images to halve EPI readout times: Two reduced acquisitions interleaved (TRAIL). <i>Magnetic Resonance in Medicine</i> , 2004, 51, 1212-1222.	3.0	10
57	BOLD mapping of human epileptic spikes recorded during simultaneous intracranial EEG-fMRI: The impact of automated spike classification. <i>NeuroImage</i> , 2019, 184, 981-992.	4.2	10
58	Looking for neuronal currents using MRI: An EEG-fMRI investigation of fast MR signal changes time-locked to frequent focal epileptic discharges. <i>NeuroImage</i> , 2010, 50, 1109-1117.	4.2	9
59	A Comparison of Independent Component Analysis (ICA) of fMRI and Electrical Source Imaging (ESI) in Focal Epilepsy Reveals Misclassification Using a Classifier. <i>Brain Topography</i> , 2015, 28, 813-831.	1.8	9
60	Common SENSE (sensitivity encoding using hardware common to all MR scanners): A new method for single-shot segmented echo planar imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 402-410.	3.0	7
61	Multimodal computational neocortical anatomy in pediatric hippocampal sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1200-1210.	3.7	7
62	Evaluation of DISORDER: Retrospective Image Motion Correction for Volumetric Brain MRI in a Pediatric Setting. <i>American Journal of Neuroradiology</i> , 2021, 42, 774-781.	2.4	6
63	Reducing ghosting due to k-space discontinuities in fast spin echo (FSE) imaging by a new combination of k-space ordering and parallel imaging. <i>Journal of Magnetic Resonance</i> , 2009, 200, 119-125.	2.1	5
64	Temperature Measurements in the Vicinity of Human Intracranial EEG Electrodes Exposed to Body-Coil RF for MRI at 1.5T. <i>Frontiers in Neuroscience</i> , 2020, 14, 429.	2.8	5
65	Investigating the interaction between white matter and brain state on tDCS-induced changes in brain network activity. <i>Brain Stimulation</i> , 2021, 14, 1261-1270.	1.6	5
66	Mapping Epileptic Networks Using Simultaneous Intracranial EEG-fMRI. <i>Frontiers in Neurology</i> , 2021, 12, 693504.	2.4	5
67	Unified Retrospective EEG Motion Educated Artefact Suppression for EEG-fMRI to Suppress Magnetic Field Gradient Artefacts During Motion. <i>Brain Topography</i> , 2021, 34, 745-761.	1.8	4
68	Evaluation of specific absorption rate and heating in children exposed to a <sc>7T MRI</sc> head coil. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1434-1449.	3.0	4
69	Subpixel Enhancement of Nonuniform Tissue (SPENT): A Novel MRI Technique for Quantifying BMD. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 324-333.	2.8	3
70	High resolution isotropic diffusion imaging in post-mortem neonates: a feasibility study. <i>British Journal of Radiology</i> , 2018, 91, 20180319.	2.2	3
71	Safety of intracranial electroencephalography during functional magnetic resonance imaging in humans at 1.5 tesla using a head transmit RF coil: Histopathological and heat-shock immunohistochemistry observations. <i>NeuroImage</i> , 2022, 254, 119129.	4.2	3
72	Neural diffusivity and pre-emptive epileptic seizure intervention. <i>PLoS Computational Biology</i> , 2020, 16, e1008448.	3.2	1

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73	BRAIN NETWORK MODULATION WITH NON-INVASIVE BRAIN STIMULATION. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, e1.130-e1.	1.9	0
74	Multiparametric mapping in post-mortem perinatal MRI: a feasibility study. British Journal of Radiology, 2020, 93, 20190952.	2.2	0
75	Image Quality Issues. , 2009, , 173-199.		0
76	Automatic Detection of Neonatal Brain Injury on MRI. Lecture Notes in Computer Science, 2020, , 324-333.	1.3	0