

Ryan C N D'arcy

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,868
citations

236833

25
h-index

315616

38
g-index

70
all docs

70
docs citations

70
times ranked

1894
citing authors

#	ARTICLE	IF	CITATIONS
1	Does functional MRI detect activation in white matter? A review of emerging evidence, issues, and future directions. <i>Frontiers in Neuroscience</i> , 2014, 8, 239.	1.4	193
2	Confirming white matter fMRI activation in the corpus callosum: Co-localization with DTI tractography. <i>NeuroImage</i> , 2010, 50, 616-621.	2.1	81
3	Separating phonological and semantic processing in auditory sentence processing: A high-resolution event-related brain potential study. <i>Human Brain Mapping</i> , 2004, 22, 40-51.	1.9	73
4	Innovations in neuropsychological assessment using event-related brain potentials. <i>International Journal of Psychophysiology</i> , 2000, 37, 31-47.	0.5	70
5	White Matter fMRI Activation Cannot Be Treated as a Nuisance Regressor: Overcoming a Historical Blind Spot. <i>Frontiers in Neuroscience</i> , 2019, 13, 1024.	1.4	67
6	Functional mapping in the corpus callosum: A 4T fMRI study of white matter. <i>NeuroImage</i> , 2011, 54, 10-15.	2.1	63
7	Electrophysiological assessment of language function following stroke. <i>Clinical Neurophysiology</i> , 2003, 114, 662-672.	0.7	60
8	Linking neurophysiological and neuropsychological measures for aphasia assessment. <i>Clinical Neurophysiology</i> , 2002, 113, 1715-1722.	0.7	57
9	Phonological aspects of word recognition as revealed by high-resolution spatio-temporal brain mapping. <i>NeuroReport</i> , 2001, 12, 237-243.	0.6	54
10	Improving the clinical assessment of consciousness with advances in electrophysiological and neuroimaging techniques. <i>BMC Neurology</i> , 2010, 10, 11.	0.8	50
11	Detecting white matter activity using conventional 3T fMRI: An evaluation of standard field strength and hemodynamic response function. <i>NeuroImage</i> , 2018, 169, 145-150.	2.1	50
12	Optimizing the detection of white matter fMRI using asymmetric spin echo spiral. <i>NeuroImage</i> , 2009, 45, 83-88.	2.1	48
13	Sensitivity to White Matter fMRI Activation Increases with Field Strength. <i>PLoS ONE</i> , 2013, 8, e58130.	1.1	47
14	MRI-based evaluation of structural degeneration in the ageing brain: Pathophysiology and assessment. <i>Ageing Research Reviews</i> , 2019, 49, 67-82.	5.0	41
15	Developing Brain Vital Signs: Initial Framework for Monitoring Brain Function Changes Over Time. <i>Frontiers in Neuroscience</i> , 2016, 10, 211.	1.4	40
16	Brain vital signs detect concussion-related neurophysiological impairments in ice hockey. <i>Brain</i> , 2019, 142, 255-262.	3.7	36
17	Latency shifts in the N2b component track phonological deviations in spoken words. <i>Clinical Neurophysiology</i> , 2000, 111, 40-44.	0.7	35
18	Improved Localization Accuracy in Magnetic Source Imaging Using a 3-D Laser Scanner. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 3491-3497.	2.5	34

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19	The influence of increased working memory load on semantic neural systems: a high-resolution event-related brain potential study. <i>Cognitive Brain Research</i> , 2005, 22, 177-191.	3.3	33
20	Multimodal characterization of the semantic N400 response within a rapid evaluation brain vital sign framework. <i>Journal of Translational Medicine</i> , 2018, 16, 151.	1.8	33
21	Artificial intelligence in brain MRI analysis of Alzheimer's disease over the past 12 years: A systematic review. <i>Ageing Research Reviews</i> , 2022, 77, 101614.	5.0	33
22	An MRI Brain Atrophy and Lesion Index to Assess the Progression of Structural Changes in Alzheimer's Disease, Mild Cognitive Impairment, and Normal Aging: A Follow-Up Study. <i>Journal of Alzheimer's Disease</i> , 2011, 26, 359-367.	1.2	30
23	MRI assessment of whole-brain structural changes in aging. <i>Clinical Interventions in Aging</i> , 2017, Volume 12, 1251-1270.	1.3	30
24	Thresholds in fMRI studies: Reliable for single subjects?. <i>Journal of Neuroscience Methods</i> , 2013, 219, 312-323.	1.3	28
25	Functional MRI activation in white matter during the Symbol Digit Modalities Test. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 589.	1.0	28
26	Spontaneous Blinks Activate the Precuneus: Characterizing Blink-Related Oscillations Using Magnetoencephalography. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 489.	1.0	27
27	An MRI-Based Semiquantitative Index for the Evaluation of Brain Atrophy and Lesions in Alzheimer's Disease, Mild Cognitive Impairment and Normal Aging. <i>Dementia and Geriatric Cognitive Disorders</i> , 2010, 30, 121-130.	0.7	26
28	A rapid event-related potential (ERP) method for point-of-care evaluation of brain function: Development of the Halifax Consciousness Scanner. <i>Journal of Neuroscience Methods</i> , 2015, 245, 64-72.	1.3	26
29	ERP assessment of functional status in the temporal lobe: Examining spatiotemporal correlates of object recognition. <i>International Journal of Psychophysiology</i> , 2007, 66, 81-92.	0.5	24
30	Virtual Reality Simulator. <i>Surgical Innovation</i> , 2013, 20, 190-197.	0.4	24
31	Towards Brain First-Aid: A Diagnostic Device for Conscious Awareness. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 750-754.	2.5	23
32	Acupuncture therapy in treating migraine: results of a magnetic resonance spectroscopy imaging study. <i>Journal of Pain Research</i> , 2018, Volume 11, 889-900.	0.8	23
33	Waist circumference is correlated with poorer cognition in elderly type 2 diabetes women. <i>Alzheimer's and Dementia</i> , 2016, 12, 925-929.	0.4	22
34	Human translingual neurostimulation alters resting brain activity in high-density EEG. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 60.	2.4	21
35	White Matter Neuroplasticity: Motor Learning Activates the Internal Capsule and Reduces Hemodynamic Response Variability. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 509258.	1.0	20
36	Evaluation of reading comprehension with neuropsychological and event-related brain potential (ERP) methods. <i>Journal of the International Neuropsychological Society</i> , 2000, 6, 556-567.	1.2	18

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37	Detection of event-related potentials in individual subjects using support vector machines. <i>Brain Informatics</i> , 2015, 2, 1-12.	1.8	18
38	Cognitive loading via mental arithmetic modulates effects of blink-related oscillations on precuneus and ventral attention network regions. <i>Human Brain Mapping</i> , 2019, 40, 377-393.	1.9	18
39	Electrophysiology of Inhibitory Control in the Context of Emotion Processing in Children With Autism Spectrum Disorder. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 78.	1.0	17
40	Differential neural processing of spontaneous blinking under visual and auditory sensory environments: An EEG investigation of blink-related oscillations. <i>NeuroImage</i> , 2020, 218, 116879.	2.1	17
41	Simulation-based training for burr hole surgery instrument recognition. <i>BMC Medical Education</i> , 2016, 16, 153.	1.0	16
42	Functional MRI on executive functioning in aging and dementia: A scoping review of cognitive tasks. <i>Aging Medicine (Milton (N S W))</i> , 2018, 1, 209-219.	0.9	16
43	The fan effect in fMRI: left hemisphere specialization in verbal working memory. <i>NeuroReport</i> , 2004, 15, 1851-1855.	0.6	15
44	Long-Term Motor Recovery After Severe Traumatic Brain Injury: Beyond Established Limits. <i>Journal of Head Trauma Rehabilitation</i> , 2016, 31, E50-E58.	1.0	15
45	Brain Vital Signs: Expanding From the Auditory to Visual Modality. <i>Frontiers in Neuroscience</i> , 2018, 12, 968.	1.4	14
46	Accessing knowledge of the "here and now": a new technique for capturing electromagnetic markers of orientation processing. <i>Journal of Neural Engineering</i> , 2019, 16, 016008.	1.8	14
47	Toward MRI-based whole-brain health assessment: The brain atrophy and lesion index (BALI). <i>Aging Medicine (Milton (N S W))</i> , 2018, 1, 55-63.	0.9	13
48	Subconcussive brain vital signs changes predict head-impact exposure in ice hockey players. <i>Brain Communications</i> , 2021, 3, fcab019.	1.5	11
49	Comparing gray and white matter fMRI activation using asymmetric spin echo spiral. <i>Journal of Neuroscience Methods</i> , 2012, 209, 351-356.	1.3	10
50	Spatial MEG Laterality maps for language: Clinical applications in epilepsy. <i>Human Brain Mapping</i> , 2013, 34, 1749-1760.	1.9	9
51	Portable neuromodulation induces neuroplasticity to re-activate motor function recovery from brain injury: a high-density MEG case study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 158.	2.4	9
52	Functional MRI technologies in the study of medication treatment effect on Alzheimer's disease. <i>Aging Medicine (Milton (N S W))</i> , 2018, 1, 75-95.	0.9	8
53	Good data? The EEG Quality Index for Automated Assessment of Signal Quality. , 2019, , .		8
54	Novel Signal Processing Technique for Capture and Isolation of Blink-Related Oscillations Using a Low-Density Electrode Array for Bedside Evaluation of Consciousness. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 453-463.	2.5	8

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55	Brain Vital Signs Detect Cognitive Improvements During Combined Physical Therapy and Neuromodulation in Rehabilitation From Severe Traumatic Brain Injury: A Case Report. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 347.	1.0	8
56	Brain Vital Signs Detect Information Processing Differences When Neuromodulation Is Used During Cognitive Skills Training. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 358.	1.0	8
57	Toward improved homecare of frail older adults: A focus group study synthesizing patient and caregiver perspectives. <i>Aging Medicine (Milton (N S W))</i> , 2021, 4, 4-11.	0.9	7
58	A site directed fMRI approach for evaluating functional status in the anterolateral temporal lobes. <i>Neuroscience Research</i> , 2007, 57, 120-128.	1.0	6
59	Enabling event-related potential assessments using low-density electrode arrays: A new technique for denoising individual channel EEG data. , 2020, , .		6
60	Asymmetric Weighting to Optimize Regional Sensitivity in Combined fMRI-MEG Maps. <i>Brain Topography</i> , 2016, 29, 1-12.	0.8	5
61	Subconcussive changes in youth football players: objective evidence using brain vital signs and instrumented accelerometers. <i>Brain Communications</i> , 2022, 4, fcab286.	1.5	5
62	Automation of CT-based haemorrhagic stroke assessment for improved clinical outcomes: study protocol and design. <i>BMJ Open</i> , 2018, 8, e020260.	0.8	4
63	Distant Sensor Prediction of Event-Related Potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2916-2924.	2.5	4
64	Point-of-care brain injury evaluation of conscious awareness: wide scale deployment of portable HCS EEG evaluation. <i>Neuroscience of Consciousness</i> , 2018, 2018, niy011.	1.4	3
65	Brain Vital Signs in Elite Ice Hockey: Towards Characterizing Objective and Specific Neurophysiological Reference Values for Concussion Management. <i>Frontiers in Neuroscience</i> , 2021, 15, 670563.	1.4	3
66	Event Related Potential Signal Capture Can Be Enhanced through Dynamic SNR-Weighted Channel Pooling. <i>Sensors</i> , 2021, 21, 7258.	2.1	3
67	Reply: P300 amplitudes after concussions are usually decreased not increased. <i>Brain</i> , 2019, 142, e33-e33.	3.7	1
68	Contextual Processing and the Impacts of Aging and Neurodegeneration: A Scoping Review. <i>Clinical Interventions in Aging</i> , 2021, Volume 16, 345-361.	1.3	1
69	Knowledge transfer and retention of simulation-based learning for neurosurgical instruments: a randomised trial of perioperative nurses. <i>BMJ Simulation and Technology Enhanced Learning</i> , 2021, 7, 146-153.	0.7	0