Ryan C N D'arcy

List of Publications by Year
in descending order

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	Artificial intelligence in brain MRI analysis of Alzheimerâ€™s disease over the past 12 years: A systematic review. Ageing Research Reviews, 2022, 77, 101614.	5.0	33
2	Subconcussive changes in youth football players: objective evidence using brain vital signs and instrumented accelerometers. Brain Communications, 2022, 4, fcab286.	1.5	5
3	Toward improved homecare of frail older adults: A focus group study synthesizing patient and caregiver perspectives. Aging Medicine (Milton (N S W)), 2021, 4, 4-11.	0.9	7
4	Contextual Processing and the Impacts of Aging and Neurodegeneration: A Scoping Review. Clinical Interventions in Aging, 2021, Volume 16, 345-361.	1.3	1
5	Subconcussive brain vital signs changes predict head-impact exposure in ice hockey players. Brain Communications, 2021, 3, fcab019.	1.5	11
6	Brain Vital Signs in Elite Ice Hockey: Towards Characterizing Objective and Specific Neurophysiological Reference Values for Concussion Management. Frontiers in Neuroscience, 2021, 15, 670563.	1.4	3
7	Event Related Potential Signal Capture Can Be Enhanced through Dynamic SNR-Weighted Channel Pooling. Sensors, 2021, 21, 7258.	2.1	3
8	Knowledge transfer and retention of simulation-based learning for neurosurgical instruments: a randomised trial of perioperative nurses. BMJ Simulation and Technology Enhanced Learning, 2021, 7, 146-153.	0.7	0
9	Novel Signal Processing Technique for Capture and Isolation of Blink-Related Oscillations Using a Low-Density Electrode Array for Bedside Evaluation of Consciousness. IEEE Transactions on Biomedical Engineering, 2020, 67, 453-463.	2.5	8
10	Brain Vital Signs Detect Cognitive Improvements During Combined Physical Therapy and Neuromodulation in Rehabilitation From Severe Traumatic Brain Injury: A Case Report. Frontiers in Human Neuroscience, 2020, 14, 347.	1.0	8
11	Brain Vital Signs Detect Information Processing Differences When Neuromodulation Is Used During Cognitive Skills Training. Frontiers in Human Neuroscience, 2020, 14, 358.	1.0	8
12	White Matter Neuroplasticity: Motor Learning Activates the Internal Capsule and Reduces Hemodynamic Response Variability. Frontiers in Human Neuroscience, 2020, 14, 509258.	1.0	20
13	Enabling event-related potential assessments using low-density electrode arrays: A new technique for denoising individual channel EEG data. , 2020, , .		6
14	Portable neuromodulation induces neuroplasticity to re-activate motor function recovery from brain injury: a high-density MEG case study. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 158.	2.4	9
15	Differential neural processing of spontaneous blinking under visual and auditory sensory environments: An EEG investigation of blink-related oscillations. NeuroImage, 2020, 218, 116879.	2.1	17
16	Distant Sensor Prediction of Event-Related Potentials. IEEE Transactions on Biomedical Engineering, 2020, 67, 2916-2924.	2.5	4
17	Reply: P300 amplitudes after concussions are usually decreased not increased. Brain, 2019, 142, e33-e33.	3.7	1
18	White Matter fMRI Activation Cannot Be Treated as a Nuisance Regressor: Overcoming a Historical Blind Spot. Frontiers in Neuroscience, 2019, 13, 1024.	1.4	67

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19	Human translingual neurostimulation alters resting brain activity in high-density EEG. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 60.	2.4	21
20	Electrophysiology of Inhibitory Control in the Context of Emotion Processing in Children With Autism Spectrum Disorder. Frontiers in Human Neuroscience, 2019, 13, 78.	1.0	17
21	Good data? The EEG Quality Index for Automated Assessment of Signal Quality. , 2019, , .		8
22	MRI-based evaluation of structural degeneration in the ageing brain: Pathophysiology and assessment. Ageing Research Reviews, 2019, 49, 67-82.	5.0	41
23	Brain vital signs detect concussion-related neurophysiological impairments in ice hockey. Brain, 2019, 142, 255-262.	3.7	36
24	Accessing knowledge of the â€˜here and nowâ€™: a new technique for capturing electromagnetic markers of orientation processing. Journal of Neural Engineering, 2019, 16, 016008.	1.8	14
25	Cognitive loading via mental arithmetic modulates effects of blinkâ€related oscillations on precuneus and ventral attention network regions. Human Brain Mapping, 2019, 40, 377-393.	1.9	18
26	Automation of CT-based haemorrhagic stroke assessment for improved clinical outcomes: study protocol and design. BMJ Open, 2018, 8, e020260.	0.8	4
27	Detecting white matter activity using conventional 3ÂTesla fMRI: An evaluation of standard field strength and hemodynamic response function. NeuroImage, 2018, 169, 145-150.	2.1	50
28	Point-of-care brain injury evaluation of conscious awareness: wide scale deployment of portable HCS EEG evaluation. Neuroscience of Consciousness, 2018, 2018, niy011.	1.4	3
29	Functional <scp>MRI</scp> on executive functioning in aging and dementia: A scoping review of cognitive tasks. Aging Medicine (Milton (N S W)), 2018, 1, 209-219.	0.9	16
30	Toward <scp>MRI</scp>â€based wholeâ€brain health assessment: The brain atrophy and lesion index (<scp>BALI</scp>). Aging Medicine (Milton (N S W)), 2018, 1, 55-63.	0.9	13
31	Multimodal characterization of the semantic N400 response within a rapid evaluation brain vital sign framework. Journal of Translational Medicine, 2018, 16, 151.	1.8	33
32	Acupuncture therapy in treating migraine: results of a magnetic resonance spectroscopy imaging study. Journal of Pain Research, 2018, Volume 11, 889-900.	0.8	23
33	Functional <scp>MRI</scp> technologies in the study of medication treatment effect on Alzheimer's disease. Aging Medicine (Milton (N S W)), 2018, 1, 75-95.	0.9	8
34	Brain Vital Signs: Expanding From the Auditory to Visual Modality. Frontiers in Neuroscience, 2018, 12, 968.	1.4	14
35	MRI assessment of whole-brain structural changes in aging. Clinical Interventions in Aging, 2017, Volume 12, 1251-1270.	1.3	30
36	Spontaneous Blinks Activate the Precuneus: Characterizing Blink-Related Oscillations Using Magnetoencephalography. Frontiers in Human Neuroscience, 2017, 11, 489.	1.0	27

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37	Developing Brain Vital Signs: Initial Framework for Monitoring Brain Function Changes Over Time. Frontiers in Neuroscience, 2016, 10, 211.	1.4	40
38	Long-Term Motor Recovery After Severe Traumatic Brain Injury: Beyond Established Limits. Journal of Head Trauma Rehabilitation, 2016, 31, E50-E58.	1.0	15
39	Simulation-based training for burr hole surgery instrument recognition. BMC Medical Education, 2016, 16, 153.	1.0	16
40	Waist circumference is correlated with poorer cognition in elderly type 2 diabetes women. Alzheimer's and Dementia, 2016, 12, 925-929.	0.4	22
41	Asymmetric Weighting to Optimize Regional Sensitivity in Combined fMRI-MEG Maps. Brain Topography, 2016, 29, 1-12.	0.8	5
42	Detection of event-related potentials in individual subjects using support vector machines. Brain Informatics, 2015, 2, 1-12.	1.8	18
43	A rapid event-related potential (ERP) method for point-of-care evaluation of brain function: Development of the Halifax Consciousness Scanner. Journal of Neuroscience Methods, 2015, 245, 64-72.	1.3	26
44	Functional MRI activation in white matter during the Symbol Digit Modalities Test. Frontiers in Human Neuroscience, 2014, 8, 589.	1.0	28
45	Does functional MRI detect activation in white matter? A review of emerging evidence, issues, and future directions. Frontiers in Neuroscience, 2014, 8, 239.	1.4	193
46	Spatial MEG Laterality maps for language: Clinical applications in epilepsy. Human Brain Mapping, 2013, 34, 1749-1760.	1.9	9
47	Thresholds in fMRI studies: Reliable for single subjects?. Journal of Neuroscience Methods, 2013, 219, 312-323.	1.3	28
48	Virtual Reality Simulator. Surgical Innovation, 2013, 20, 190-197.	0.4	24
49	Sensitivity to White Matter fMRI Activation Increases with Field Strength. PLoS ONE, 2013, 8, e58130.	1.1	47
50	Improved Localization Accuracy in Magnetic Source Imaging Using a 3-D Laser Scanner. IEEE Transactions on Biomedical Engineering, 2012, 59, 3491-3497.	2.5	34
51	Comparing gray and white matter fMRI activation using asymmetric spin echo spiral. Journal of Neuroscience Methods, 2012, 209, 351-356.	1.3	10
52	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. Journal of Alzheimer's Disease, 2011, 26, 359-367.	1.2	30
53	Functional mapping in the corpus callosum: A 4T fMRI study of white matter. NeuroImage, 2011, 54, 10-15.	2.1	63
54	Towards Brain First-Aid: A Diagnostic Device for Conscious Awareness. IEEE Transactions on Biomedical Engineering, 2011, 58, 750-754.	2.5	23

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55	An MRI-Based Semiquantitative Index for the Evaluation of Brain Atrophy and Lesions in Alzheimerâ€™s Disease, Mild Cognitive Impairment and Normal Aging. Dementia and Geriatric Cognitive Disorders, 2010, 30, 121-130.	0.7	26
56	Improving the clinical assessment of consciousness with advances in electrophysiological and neuroimaging techniques. BMC Neurology, 2010, 10, 11.	0.8	50
57	Confirming white matter fMRI activation in the corpus callosum: Co-localization with DTI tractography. NeuroImage, 2010, 50, 616-621.	2.1	81
58	Optimizing the detection of white matter fMRI using asymmetric spin echo spiral. NeuroImage, 2009, 45, 83-88.	2.1	48
59	ERP assessment of functional status in the temporal lobe: Examining spatiotemporal correlates of object recognition. International Journal of Psychophysiology, 2007, 66, 81-92.	0.5	24
60	A site directed fMRI approach for evaluating functional status in the anterolateral temporal lobes. Neuroscience Research, 2007, 57, 120-128.	1.0	6
61	The influence of increased working memory load on semantic neural systems: a high-resolution event-related brain potential study. Cognitive Brain Research, 2005, 22, 177-191.	3.3	33
62	Separating phonological and semantic processing in auditory sentence processing: A high-resolution event-related brain potential study. Human Brain Mapping, 2004, 22, 40-51.	1.9	73
63	The fan effect in fMRI: left hemisphere specialization in verbal working memory. NeuroReport, 2004, 15, 1851-1855.	0.6	15
64	Electrophysiological assessment of language function following stroke. Clinical Neurophysiology, 2003, 114, 662-672.	0.7	60
65	Linking neurophysiological and neuropsychological measures for aphasia assessment. Clinical Neurophysiology, 2002, 113, 1715-1722.	0.7	57
66	Phonological aspects of word recognition as revealed by high-resolution spatio-temporal brain mapping. NeuroReport, 2001, 12, 237-243.	0.6	54
67	Evaluation of reading comprehension with neuropsychological and event-related brain potential (ERP) methods. Journal of the International Neuropsychological Society, 2000, 6, 556-567.	1.2	18
68	Innovations in neuropsychological assessment using event-related brain potentials. International Journal of Psychophysiology, 2000, 37, 31-47.	0.5	70
69	Latency shifts in the N2b component track phonological deviations in spoken words. Clinical Neurophysiology, 2000, 111, 40-44.	0.7	35