

Bradley Voytek

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,809
citations

147801

31
h-index

138484

58
g-index

90
all docs

90
docs citations

90
times ranked

6250
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameterizing neural power spectra into periodic and aperiodic components. <i>Nature Neuroscience</i> , 2020, 23, 1655-1665.	14.8	877
2	Complex Oscillatory Waves Emerging from Cortical Organoids Model Early Human Brain Network Development. <i>Cell Stem Cell</i> , 2019, 25, 558-569.e7.	11.1	520
3	Inferring synaptic excitation/inhibition balance from field potentials. <i>NeuroImage</i> , 2017, 158, 70-78.	4.2	503
4	Age-Related Changes in 1/f Neural Electrophysiological Noise. <i>Journal of Neuroscience</i> , 2015, 35, 13257-13265.	3.6	479
5	Dynamic Network Communication as a Unifying Neural Basis for Cognition, Development, Aging, and Disease. <i>Biological Psychiatry</i> , 2015, 77, 1089-1097.	1.3	387
6	Brain Oscillations and the Importance of Waveform Shape. <i>Trends in Cognitive Sciences</i> , 2017, 21, 137-149.	7.8	380
7	Shifts in gamma phase-amplitude coupling frequency from theta to alpha over posterior cortex during visual tasks. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 191.	2.0	353
8	Nonsinusoidal Beta Oscillations Reflect Cortical Pathophysiology in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2017, 37, 4830-4840.	3.6	180
9	Oscillatory dynamics coordinating human frontal networks in support of goal maintenance. <i>Nature Neuroscience</i> , 2015, 18, 1318-1324.	14.8	173
10	Prefrontal cortex and basal ganglia contributions to visual working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18167-18172.	7.1	156
11	Neuronal timescales are functionally dynamic and shaped by cortical microarchitecture. <i>ELife</i> , 2020, 9, .	6.0	145
12	Supraphysiological doses of levothyroxine alter regional cerebral metabolism and improve mood in bipolar depression. <i>Molecular Psychiatry</i> , 2005, 10, 456-469.	7.9	144
13	Cycle-by-cycle analysis of neural oscillations. <i>Journal of Neurophysiology</i> , 2019, 122, 849-861.	1.8	140
14	A method for event-related phase/amplitude coupling. <i>NeuroImage</i> , 2013, 64, 416-424.	4.2	125
15	Cerebral Metabolic Dysfunction and Impaired Vigilance in Recently Abstinent Methamphetamine Abusers. <i>Biological Psychiatry</i> , 2005, 58, 770-778.	1.3	121
16	EEG power spectral slope differs by ADHD status and stimulant medication exposure in early childhood. <i>Journal of Neurophysiology</i> , 2019, 122, 2427-2437.	1.8	116
17	Dynamic Neuroplasticity after Human Prefrontal Cortex Damage. <i>Neuron</i> , 2010, 68, 401-408.	8.1	106
18	Longitudinal changes in aperiodic and periodic activity in electrophysiological recordings in the first seven months of life. <i>Developmental Cognitive Neuroscience</i> , 2021, 47, 100895.	4.0	106

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19	iEEG-BIDS, extending the Brain Imaging Data Structure specification to human intracranial electrophysiology. <i>Scientific Data</i> , 2019, 6, 102.	5.3	96
20	Methodological considerations for studying neural oscillations. <i>European Journal of Neuroscience</i> , 2022, 55, 3502-3527.	2.6	93
21	Electrophysiological Frequency Band Ratio Measures Conflate Periodic and Aperiodic Neural Activity. <i>ENeuro</i> , 2020, 7, ENEURO.0192-20.2020.	1.9	91
22	Modality-specific tracking of attention and sensory statistics in the human electrophysiological spectral exponent. <i>ELife</i> , 2021, 10, .	6.0	87
23	Characteristics of Waveform Shape in Parkinson's Disease Detected with Scalp Electroencephalography. <i>ENeuro</i> , 2019, 6, ENEURO.0151-19.2019.	1.9	78
24	Changes in cerebral glucose metabolism during early abstinence from chronic methamphetamine abuse. <i>Molecular Psychiatry</i> , 2008, 13, 897-908.	7.9	60
25	Field potential $1/f$ activity in the subcallosal cingulate region as a candidate signal for monitoring deep brain stimulation for treatment-resistant depression. <i>Journal of Neurophysiology</i> , 2019, 122, 1023-1035.	1.8	57
26	Memantine Effects on Electroencephalographic Measures of Putative Excitatory/Inhibitory Balance in Schizophrenia. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 562-568.	1.5	57
27	Linked Sources of Neural Noise Contribute to Age-related Cognitive Decline. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 1813-1822.	2.3	53
28	Hemicraniectomy: A New Model for Human Electrophysiology with High Spatio-temporal Resolution. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2491-2502.	2.3	50
29	Advances in human intracranial electroencephalography research, guidelines and good practices. <i>NeuroImage</i> , 2022, 260, 119438.	4.2	50
30	NeuroDSP: A package for neural digital signal processing. <i>Journal of Open Source Software</i> , 2019, 4, 1272.	4.6	45
31	NitroSynapsin ameliorates hypersynchronous neural network activity in Alzheimer hiPSC models. <i>Molecular Psychiatry</i> , 2021, 26, 5751-5765.	7.9	43
32	Contribution of Subregions of Human Frontal Cortex to Novelty Processing. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 378-395.	2.3	37
33	Anterior cingulate cortex and cognitive control: Neuropsychological and electrophysiological findings in two patients with lesions to dorsomedial prefrontal cortex. <i>Brain and Cognition</i> , 2012, 80, 237-249.	1.8	36
34	Spectral parameterization for studying neurodevelopment: How and why. <i>Developmental Cognitive Neuroscience</i> , 2022, 54, 101073.	4.0	36
35	Enhancing Spatial Attention and Working Memory in Younger and Older Adults. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 1483-1497.	2.3	34
36	Setd5 haploinsufficiency alters neuronal network connectivity and leads to autistic-like behaviors in mice. <i>Translational Psychiatry</i> , 2019, 9, 24.	4.8	31

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37	Differential Go/NoGo Activity in Both Contingent Negative Variation and Spectral Power. PLoS ONE, 2012, 7, e48504.	2.5	31
38	Teaching Creative and Practical Data Science at Scale. Journal of Statistics and Data Science Education, 2021, 29, S27-S39.	1.6	30
39	Preparatory Encoding of the Fine Scale of Human Spatial Attention. Journal of Cognitive Neuroscience, 2017, 29, 1302-1310.	2.3	29
40	Alpha phase dynamics predict age-related visual working memory decline. NeuroImage, 2016, 143, 196-203.	4.2	27
41	Automated cognome construction and semi-automated hypothesis generation. Journal of Neuroscience Methods, 2012, 208, 92-100.	2.5	26
42	Differences in regional brain metabolism associated with marijuana abuse in methamphetamine abusers. Synapse, 2005, 57, 113-115.	1.2	25
43	The Logic of Developing Neocortical Circuits in Health and Disease. Journal of Neuroscience, 2021, 41, 813-822.	3.6	20
44	The Virtuous Cycle of a Data Ecosystem. PLoS Computational Biology, 2016, 12, e1005037.	3.2	20
45	Social Media, Open Science, and Data Science Are Inextricably Linked. Neuron, 2017, 96, 1219-1222.	8.1	16
46	Emergent Basal Ganglia Pathology within Computational Models. Journal of Neuroscience, 2006, 26, 7317-7318.	3.6	15
47	Enhancing oscillations in intracranial electrophysiological recordings with data-driven spatial filters. PLoS Computational Biology, 2021, 17, e1009298.	3.2	13
48	Regional cerebral glucose metabolism and anxiety symptoms in bipolar depression: Effects of levothyroxine. Psychiatry Research - Neuroimaging, 2010, 181, 71-76.	1.8	11
49	Automated meta-analysis of the event-related potential (ERP) literature. Scientific Reports, 2022, 12, 1867.	3.3	11
50	Exploring the Potential of the iPad and Xbox Kinect for Cognitive Science Research. Games for Health Journal, 2015, 4, 221-224.	2.0	9
51	Uncovering Neuronal Networks Defined by Consistent Between-Neuron Spike Timing from Neuronal Spike Recordings. ENeuro, 2018, 5, ENEURO.0379-17.2018.	1.9	9
52	Local field potentials in a pre-motor region predict learned vocal sequences. PLoS Computational Biology, 2021, 17, e1008100.	3.2	6
53	Prefrontal Cortex Lesions Impair Object-Spatial Integration. PLoS ONE, 2012, 7, e34937.	2.5	5
54	Stimulating the aging brain. Annals of Neurology, 2013, 73, 1-3.	5.3	3

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55	Cortical Excitability and the 1/f Slope in Schizophrenia and Bipolar Disorders. <i>Biological Psychiatry</i> , 2020, 87, S265.	1.3	2
56	Homeostatic mechanisms may shape the type and duration of oscillatory modulation. <i>Journal of Neurophysiology</i> , 2020, 124, 168-177.	1.8	2
57	Dynamic Communication and Connectivity in Frontal Networks. , 2011, , 110-122.		1
58	Course Materials for Data Science in Practice. <i>The Journal of Open Source Education</i> , 2022, 5, 121.	0.4	1