Bradley Voytek

List of Publications by Year
in descending order

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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	Methodological considerations for studying neural oscillations. European Journal of Neuroscience, 2022, 55, 3502-3527.	2.6	93
2	Spectral parameterization for studying neurodevelopment: How and why. Developmental Cognitive Neuroscience, 2022, 54, 101073.	4.0	36
3	Automated meta-analysis of the event-related potential (ERP) literature. Scientific Reports, 2022, 12, 1867.	3.3	11
4	Course Materials for Data Science in Practice. The Journal of Open Source Education, 2022, 5, 121.	0.4	1
5	Advances in human intracranial electroencephalography research, guidelines and good practices. NeuroImage, 2022, 260, 119438.	4.2	50
6	NitroSynapsin ameliorates hypersynchronous neural network activity in Alzheimer hiPSC models. Molecular Psychiatry, 2021, 26, 5751-5765.	7.9	43
7	The Logic of Developing Neocortical Circuits in Health and Disease. Journal of Neuroscience, 2021, 41, 813-822.	3.6	20
8	Longitudinal changes in aperiodic and periodic activity in electrophysiological recordings in the first seven months of life. Developmental Cognitive Neuroscience, 2021, 47, 100895.	4.0	106
9	Teaching Creative and Practical Data Science at Scale. Journal of Statistics and Data Science Education, 2021, 29, S27-S39.	1.6	30
10	Enhancing oscillations in intracranial electrophysiological recordings with data-driven spatial filters. PLoS Computational Biology, 2021, 17, e1009298.	3.2	13
11	Local field potentials in a pre-motor region predict learned vocal sequences. PLoS Computational Biology, 2021, 17, e1008100.	3.2	6
12	Modality-specific tracking of attention and sensory statistics in the human electrophysiological spectral exponent. ELife, 2021, 10, .	6.0	87
13	Parameterizing neural power spectra into periodic and aperiodic components. Nature Neuroscience, 2020, 23, 1655-1665.	14.8	877
14	Linked Sources of Neural Noise Contribute to Age-related Cognitive Decline. Journal of Cognitive Neuroscience, 2020, 32, 1813-1822.	2.3	53
15	Cortical Excitability and the 1/f Slope in Schizophrenia and Bipolar Disorders. Biological Psychiatry, 2020, 87, S265.	1.3	2
16	Homeostatic mechanisms may shape the type and duration of oscillatory modulation. Journal of Neurophysiology, 2020, 124, 168-177.	1.8	2
17	Memantine Effects on Electroencephalographic Measures of Putative Excitatory/Inhibitory Balance in Schizophrenia. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 562-568.	1.5	57
18	Electrophysiological Frequency Band Ratio Measures Conflate Periodic and Aperiodic Neural Activity. ENeuro, 2020, 7, ENEURO.0192-20.2020.	1.9	91

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19	Neuronal timescales are functionally dynamic and shaped by cortical microarchitecture. ELife, 2020, 9, .	6.0	145
20	Characteristics of Waveform Shape in Parkinsonâ€™s Disease Detected with Scalp Electroencephalography. ENeuro, 2019, 6, ENEURO.0151-19.2019.	1.9	78
21	iEEG-BIDS, extending the Brain Imaging Data Structure specification to human intracranial electrophysiology. Scientific Data, 2019, 6, 102.	5.3	96
22	Field potential 1/f activity in the subcallosal cingulate region as a candidate signal for monitoring deep brain stimulation for treatment-resistant depression. Journal of Neurophysiology, 2019, 122, 1023-1035.	1.8	57
23	Cycle-by-cycle analysis of neural oscillations. Journal of Neurophysiology, 2019, 122, 849-861.	1.8	140
24	EEG power spectral slope differs by ADHD status and stimulant medication exposure in early childhood. Journal of Neurophysiology, 2019, 122, 2427-2437.	1.8	116
25	Complex Oscillatory Waves Emerging from Cortical Organoids Model Early Human Brain Network Development. Cell Stem Cell, 2019, 25, 558-569.e7.	11.1	520
26	Setd5 haploinsufficiency alters neuronal network connectivity and leads to autistic-like behaviors in mice. Translational Psychiatry, 2019, 9, 24.	4.8	31
27	NeuroDSP: A package for neural digital signal processing. Journal of Open Source Software, 2019, 4, 1272.	4.6	45
28	Uncovering Neuronal Networks Defined by Consistent Between-Neuron Spike Timing from Neuronal Spike Recordings. ENeuro, 2018, 5, ENEURO.0379-17.2018.	1.9	9
29	Nonsinusoidal Beta Oscillations Reflect Cortical Pathophysiology in Parkinson's Disease. Journal of Neuroscience, 2017, 37, 4830-4840.	3.6	180
30	Preparatory Encoding of the Fine Scale of Human Spatial Attention. Journal of Cognitive Neuroscience, 2017, 29, 1302-1310.	2.3	29
31	Brain Oscillations and the Importance of Waveform Shape. Trends in Cognitive Sciences, 2017, 21, 137-149.	7.8	380
32	Social Media, Open Science, and Data Science Are Inextricably Linked. Neuron, 2017, 96, 1219-1222.	8.1	16
33	Inferring synaptic excitation/inhibition balance from field potentials. NeuroImage, 2017, 158, 70-78.	4.2	503
34	Enhancing Spatial Attention and Working Memory in Younger and Older Adults. Journal of Cognitive Neuroscience, 2017, 29, 1483-1497.	2.3	34
35	Alpha phase dynamics predict age-related visual working memory decline. NeuroImage, 2016, 143, 196-203.	4.2	27
36	The Virtuous Cycle of a Data Ecosystem. PLoS Computational Biology, 2016, 12, e1005037.	3.2	20

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37	Oscillatory dynamics coordinating human frontal networks in support of goal maintenance. Nature Neuroscience, 2015, 18, 1318-1324.	14.8	173
38	Dynamic Network Communication as a Unifying Neural Basis for Cognition, Development, Aging, and Disease. Biological Psychiatry, 2015, 77, 1089-1097.	1.3	387
39	Age-Related Changes in 1/fNeural Electrophysiological Noise. Journal of Neuroscience, 2015, 35, 13257-13265.	3.6	479
40	Exploring the Potential of the iPad and Xbox Kinect for Cognitive Science Research. Games for Health Journal, 2015, 4, 221-224.	2.0	9
41	A method for event-related phase/amplitude coupling. NeuroImage, 2013, 64, 416-424.	4.2	125
42	Stimulating the aging brain. Annals of Neurology, 2013, 73, 1-3.	5.3	3
43	Contribution of Subregions of Human Frontal Cortex to Novelty Processing. Journal of Cognitive Neuroscience, 2012, 24, 378-395.	2.3	37
44	Anterior cingulate cortex and cognitive control: Neuropsychological and electrophysiological findings in two patients with lesions to dorsomedial prefrontal cortex. Brain and Cognition, 2012, 80, 237-249.	1.8	36
45	Prefrontal Cortex Lesions Impair Object-Spatial Integration. PLoS ONE, 2012, 7, e34937.	2.5	5
46	Automated cognome construction and semi-automated hypothesis generation. Journal of Neuroscience Methods, 2012, 208, 92-100.	2.5	26
47	Differential Go/NoGo Activity in Both Contingent Negative Variation and Spectral Power. PLoS ONE, 2012, 7, e48504.	2.5	31
48	Dynamic Communication and Connectivity in Frontal Networks. , 2011, , 110-122.		1
49	Regional cerebral glucose metabolism and anxiety symptoms in bipolar depression: Effects of levothyroxine. Psychiatry Research - Neuroimaging, 2010, 181, 71-76.	1.8	11
50	Prefrontal cortex and basal ganglia contributions to visual working memory. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18167-18172.	7.1	156
51	Hemicraniectomy: A New Model for Human Electrophysiology with High Spatio-temporal Resolution. Journal of Cognitive Neuroscience, 2010, 22, 2491-2502.	2.3	50
52	Shifts in gamma phaseâ€“amplitude coupling frequency from theta to alpha over posterior cortex during visual tasks. Frontiers in Human Neuroscience, 2010, 4, 191.	2.0	353
53	Dynamic Neuroplasticity after Human Prefrontal Cortex Damage. Neuron, 2010, 68, 401-408.	8.1	106
54	Changes in cerebral glucose metabolism during early abstinence from chronic methamphetamine abuse. Molecular Psychiatry, 2008, 13, 897-908.	7.9	60

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55	Emergent Basal Ganglia Pathology within Computational Models. Journal of Neuroscience, 2006, 26, 7317-7318.	3.6	15
56	Supraphysiological doses of levothyroxine alter regional cerebral metabolism and improve mood in bipolar depression. Molecular Psychiatry, 2005, 10, 456-469.	7.9	144
57	Differences in regional brain metabolism associated with marijuana abuse in methamphetamine abusers. Synapse, 2005, 57, 113-115.	1.2	25
58	Cerebral Metabolic Dysfunction and Impaired Vigilance in Recently Abstinent Methamphetamine Abusers. Biological Psychiatry, 2005, 58, 770-778.	1.3	121