Jan Cimbalnik

List of Publications by Year
in descending order

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29 papers	1,372 citations	516710 16 h-index	526287 27 g-index
30 all docs	30 docs citations	30 times ranked	1366 citing authors

#	Article	IF	Citations
1	Highâ€frequency oscillations: The state of clinical research. Epilepsia, 2017, 58, 1316-1329.	5.1	260
2	High frequency oscillations are associated with cognitive processing in human recognition memory. Brain, 2014, 137, 2231-2244.	7.6	149
3	Integrating Brain Implants With Local and Distributed Computing Devices: A Next Generation Epilepsy Management System. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-12.	3.7	92
4	Gamma oscillations precede interictal epileptiform spikes in the seizure onset zone. Neurology, 2015, 84, 602-608.	1.1	79
5	Physiological and pathological high frequency oscillations in focal epilepsy. Annals of Clinical and Translational Neurology, 2018, 5, 1062-1076.	3.7	71
6	Deep-learning for seizure forecasting in canines with epilepsy. Journal of Neural Engineering, 2019, 16, 036031.	3.5	61
7	Very highâ€frequency oscillations: Novel biomarkers of the epileptogenic zone. Annals of Neurology, 2017, 82, 299-310.	5.3	60
8	Spatial variation in high-frequency oscillation rates and amplitudes in intracranial EEG. Neurology, 2018, 90, e639-e646.	1.1	60
9	Intracerebral EEG Artifact Identification Using Convolutional Neural Networks. Neuroinformatics, 2019, 17, 225-234.	2.8	60
10	Evidence for Consolidation of Neuronal Assemblies after Seizures in Humans. Journal of Neuroscience, 2015, 35, 999-1010.	3.6	55
11	Integrating artificial intelligence with real-time intracranial EEG monitoring to automate interictal identification of seizure onset zones in focal epilepsy. Journal of Neural Engineering, 2018, 15, 046035.	3.5	54
12	Multi-feature localization of epileptic foci from interictal, intracranial EEG. Clinical Neurophysiology, 2019, 130, 1945-1953.	1.5	53
13	Interictal high-frequency oscillations in focal human epilepsy. Current Opinion in Neurology, 2016, 29, 175-181.	3.6	52
14	NREM sleep is the state of vigilance that best identifies the epileptogenic zone in the interictal electroencephalogram. Epilepsia, 2019, 60, 2404-2415.	5.1	48
15	The CS algorithm: A novel method for high frequency oscillation detection in EEG. Journal of Neuroscience Methods, 2018, 293, 6-16.	2.5	37
16	Frequency-independent characteristics of high-frequency oscillations in epileptic and non-epileptic regions. Clinical Neurophysiology, 2017, 128, 106-114.	1.5	31
17	Distributed brain co-processor for tracking spikes, seizures and behaviour during electrical brain stimulation. Brain Communications, 2022, 4, .	3.3	22
18	High frequency oscillations in epileptic and non-epileptic human hippocampus during a cognitive task. Scientific Reports, 2020, 10, 18147.	3.3	20

#	Article	IF	Citations
19	Exploiting Graphoelements and Convolutional Neural Networks with Long Short Term Memory for Classification of the Human Electroencephalogram. Scientific Reports, 2019, 9, 11383.	3.3	18
20	Impact of cognitive stimulation on ripples within human epileptic and non-epileptic hippocampus. BMC Neuroscience, 2015, 16, 47.	1.9	17
21	Progress and remaining challenges in the application of high frequency oscillations as biomarkers of epileptic brain. Current Opinion in Biomedical Engineering, 2017, 4, 87-96.	3.4	16
22	Multicenter intracranial EEG dataset for classification of graphoelements and artifactual signals. Scientific Data, 2020, 7, 179.	5.3	16
23	Cognitive Processing Impacts High Frequency Intracranial EEG Activity of Human Hippocampus in Patients With Pharmacoresistant Focal Epilepsy. Frontiers in Neurology, 2020, 11, 578571.	2.4	7
24	Protocol for multicentre comparison of interictal high-frequency oscillations as a predictor of seizure freedom. Brain Communications, 2022, 4, .	3.3	7
25	Hippocampal high frequency oscillations in unilateral and bilateral mesial temporal lobe epilepsy. Clinical Neurophysiology, 2019, 130, 1151-1159.	1.5	6
26	Combined Single Neuron Unit Activity and Local Field Potential Oscillations in a Human Visual Recognition Memory Task. IEEE Transactions on Biomedical Engineering, 2016, 63, 67-75.	4.2	5
27	Intracranial electrophysiological recordings from the human brain during memory tasks with pupillometry. Scientific Data, 2022, 9, 6.	5.3	4
28	Interictal very fast ripples (500-1000 Hz) and ultra fast ripples (1-2 kHz): Novel biomarkers of the epileptogenic zone. Journal of the Neurological Sciences, 2017, 381, 337.	0.6	0
29	Ultra-fast oscillation detection in EEG signal from deep-brain microelectrodes. , 2021, 2021, 265-268.		0