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List of Publications by Year
in descending order

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64 papers	3,578 citations	172207 29 h-index	161609 54 g-index
88 all docs	88 docs citations	88 times ranked	2489 citing authors

#	Article	IF	Citations
1	Connectomic DBS: An introduction. , 2022, , 3-23.		5
2	Neurophysiological mechanisms of DBS from a connectomic perspective. , 2022, , 59-87.		1
3	Nucleus basalis of Meynert predicts cognition after deep brain stimulation in Parkinson's disease. Parkinsonism and Related Disorders, 2022, 94, 89-95.	1.1	7
4	Machine learning based brain signal decoding for intelligent adaptive deep brain stimulation. Experimental Neurology, 2022, 351, 113993.	2.0	35
5	Cortical phase-amplitude coupling is key to the occurrence and treatment of freezing of gait. Brain, 2022, 145, 2407-2421.	3.7	23
6	Toward therapeutic electrophysiology: beta-band suppression as a biomarker in chronic local field potential recordings. Npj Parkinson's Disease, 2022, 8, 44.	2.5	49
7	Functional connectivity maps of theta/alpha and beta coherence within the subthalamic nucleus region. NeuroImage, 2022, 257, 119320.	2.1	15
8	A practical guide to invasive neurophysiology in patients with deep brain stimulation. Clinical Neurophysiology, 2022, 140, 171-180.	0.7	10
9	Lead-OR: A multimodal platform for deep brain stimulation surgery. ELife, 2022, 11, .	2.8	11
10	Spectral and spatial distribution of subthalamic beta peak activity in Parkinson's disease patients. Experimental Neurology, 2022, 356, 114150.	2.0	34
11	Low-frequency oscillations link frontal and parietal cortex with subthalamic nucleus in conflicts. NeuroImage, 2022, 258, 119389.	2.1	3
12	Clinical neurophysiology of Parkinsonâ€™s disease and parkinsonism. Clinical Neurophysiology Practice, 2022, 7, 201-227.	0.6	28
13	Recommendations for empowering early career researchers to improve research culture and practice. PLoS Biology, 2022, 20, e3001680.	2.6	15
14	Oscillations of pause-burst neurons in the STN correlate with the severity of motor signs in Parkinson's disease. Experimental Neurology, 2022, 356, 114155.	2.0	4
15	Subthalamic beta oscillations correlate with dopaminergic degeneration in experimental parkinsonism. Experimental Neurology, 2021, 335, 113513.	2.0	21
16	Subthalamic stimulation impairs stopping of ongoing movements. Brain, 2021, 144, 44-52.	3.7	33
17	The Phenomenon of Exquisite Motor Control in Tic Disorders and its Pathophysiological Implications. Movement Disorders, 2021, 36, 1308-1315.	2.2	7
18	Subthalamic beta band suppression reflects effective neuromodulation in chronic recordings. European Journal of Neurology, 2021, 28, 2372-2377.	1.7	46

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19	Machine Learning Will Extend the Clinical Utility of Adaptive Deep Brain Stimulation. Movement Disorders, 2021, 36, 796-799.	2.2	12
20	Intact Organization of Tactile Space Perception in Isolated Focal Dystonia. Movement Disorders, 2021, 36, 1949-1955.	2.2	7
21	Risk of Infection after Deep Brain Stimulation Surgery with Externalization and Local-Field Potential Recordings: Twelve-Year Experience from a Single Institution. Stereotactic and Functional Neurosurgery, 2021, 99, 512-520.	0.8	19
22	Local field potentials in Parkinson's disease: A frequency-based review. Neurobiology of Disease, 2021, 155, 105372.	2.1	48
23	Assessment of myelination in infants and young children by T1 relaxation time measurements using the magnetization-prepared 2 rapid acquisition gradient echoes sequence. Pediatric Radiology, 2021, 51, 2058-2068.	1.1	9
24	Neural signatures of hyperdirect pathway activity in Parkinsonâ€™s disease. Nature Communications, 2021, 12, 5185.	5.8	65
25	The sensitivity of ECG contamination to surgical implantation site in brain computer interfaces. Brain Stimulation, 2021, 14, 1301-1306.	0.7	43
26	Neuromodulation effects of deep brain stimulation on beta rhythm: A longitudinal local field potential study. Brain Stimulation, 2020, 13, 1784-1792.	0.7	36
27	Reply to: Pallidal Lowâ€Frequency Activity in Dystonia and Subthalamic Beta Activity in Parkinson's Disease. Movement Disorders, 2020, 35, 1699-1699.	2.2	4
28	Movement disorders after hypoxic brain injury following cardiac arrest in adults. European Journal of Neurology, 2020, 27, 1937-1947.	1.7	10
29	Deep brain stimulation: Imaging on a group level. NeuroImage, 2020, 219, 117018.	2.1	69
30	Basal ganglia oscillations as biomarkers for targeting circuit dysfunction in Parkinson's disease. Progress in Brain Research, 2020, 252, 525-557.	0.9	15
31	Movement-related coupling of human subthalamic nucleus spikes to cortical gamma. ELife, 2020, 9, .	2.8	21
32	A Virtual Morris Water Maze to Study Neurodegenarative Disorders. , 2020, , .		2
33	Deep brain stimulation induced normalization of the human functional connectome in Parkinsonâ€™s disease. Brain, 2019, 142, 3129-3143.	3.7	109
34	Pallidal lowâ€frequency activity in dystonia after cessation of longâ€term deep brain stimulation. Movement Disorders, 2019, 34, 1734-1739.	2.2	33
35	Subthalamic Nucleus and Sensorimotor Cortex Activity During Speech Production. Journal of Neuroscience, 2019, 39, 2698-2708.	1.7	40
36	Subthalamic neuromodulation improves short-term motor learning in Parkinsonâ€™s disease. Brain, 2019, 142, 2198-2206.	3.7	37

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37	Beta bursts during continuous movements accompany the velocity decrement in Parkinson's disease patients. Neurobiology of Disease, 2019, 127, 462-471.	2.1	112
38	Lead-DBS v2: Towards a comprehensive pipeline for deep brain stimulation imaging. NeuroImage, 2019, 184, 293-316.	2.1	527
39	Pallidal beta bursts in Parkinson's disease and dystonia. Movement Disorders, 2019, 34, 420-424.	2.2	40
40	Toward Electrophysiology-Based Intelligent Adaptive Deep Brain Stimulation for Movement Disorders. Neurotherapeutics, 2019, 16, 105-118.	2.1	102
41	Sensorimotor subthalamic stimulation restores riskâ€reward tradeâ€off in Parkinson's disease. Movement Disorders, 2019, 34, 366-376.	2.2	30
42	Functional segregation of basal ganglia pathways in Parkinsonâ€™s disease. Brain, 2018, 141, 2655-2669.	3.7	62
43	Pallidal and thalamic neural oscillatory patterns in tourette's syndrome. Annals of Neurology, 2018, 84, 505-514.	2.8	65
44	Dopamine-dependent scaling of subthalamic gamma bursts with movement velocity in patients with Parkinsonâ€™s disease. ELife, 2018, 7, .	2.8	114
45	Toward an electrophysiological â€œsweet spotâ€•for deep brain stimulation in the subthalamic nucleus. Human Brain Mapping, 2017, 38, 3377-3390.	1.9	210
46	<scp>S</scp>ubthalamic beta powerâ€”Unified <scp>P</scp>arkinson's disease rating scale <scp>III</scp> correlations require akinetic symptoms. Movement Disorders, 2017, 32, 175-176.	2.2	27
47	Long term correlation of subthalamic beta band activity with motor impairment in patients with Parkinsonâ€™s disease. Clinical Neurophysiology, 2017, 128, 2286-2291.	0.7	118
48	Reply: Oscillatory coupling of the subthalamic nucleus in obsessive compulsive disorder. Brain, 2017, 140, e57-e57.	3.7	8
49	Low-beta cortico-pallidal coherence decreases during movement and correlates with overall reaction time. NeuroImage, 2017, 159, 1-8.	2.1	31
50	A localized pallidal physiomarker in cervical dystonia. Annals of Neurology, 2017, 82, 912-924.	2.8	126
51	Subthalamic beta dynamics mirror Parkinsonian bradykinesia months after neurostimulator implantation. Movement Disorders, 2017, 32, 1183-1190.	2.2	65
52	Reply: Role of cortico-pallidal connectivity in the pathophysiology of dystonia. Brain, 2016, 139, e49-e49.	3.7	4
53	Subthalamic synchronized oscillatory activity correlates with motor impairment in patients with Parkinson's disease. Movement Disorders, 2016, 31, 1748-1751.	2.2	213
54	Deep Brain Recordings Using an Implanted Pulse Generator in Parkinsonâ€™s Disease. Neuromodulation, 2016, 19, 20-24.	0.4	74

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55	Modulation of Beta-Band Activity in the Subgenual Anterior Cingulate Cortex during Emotional Empathy in Treatment-Resistant Depression. Cerebral Cortex, 2016, 26, 2626-2638.	1.6	46
56	Cortico-pallidal oscillatory connectivity in patients with dystonia. Brain, 2015, 138, 1894-1906.	3.7	141
57	Different patterns of local field potentials from limbic DBS targets in patients with major depressive and obsessive compulsive disorder. Molecular Psychiatry, 2014, 19, 1186-1192.	4.1	92
58	Deep brain stimulation suppresses pallidal low frequency activity in patients with phasic dystonic movements. Brain, 2014, 137, 3012-3024.	3.7	171
59	Scaling of Movement Is Related to Pallidal Î³ Oscillations in Patients with Dystonia. Journal of Neuroscience, 2012, 32, 1008-1019.	1.7	88
60	Enhanced lowâ€frequency oscillatory activity of the subthalamic nucleus in a patient with dystonia. Movement Disorders, 2012, 27, 1063-1066.	2.2	52
61	Cerebral Serotonin 4 Receptors and Amyloid-Î² in Early Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 26, 457-466.	1.2	63
62	Electrocorticography is Superior to Subthalamic Local Field Potentials for Movement Decoding in Parkinson's Disease. SSRN Electronic Journal, 0, , .	0.4	1
63	Forschung: Tiefe Hirnstimulation â€“ Methodische UmbrÃ¼che. , 0, , .		0
64	Electrocorticography is superior to subthalamic local field potentials for movement decoding in Parkinsonâ€™s disease. ELife, 0, 11, .	2.8	28