Benjamin L Walter

List of Publications by Year
in descending order

47 papers	2,971 citations	257450 24 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	3553 citing authors

#	Article	IF	Citations
1	Restoration of reaching and grasping movements through brain-controlled muscle stimulation in a person with tetraplegia: a proof-of-concept demonstration. Lancet, The, 2017, 389, 1821-1830.	13.7	632
2	How Does Deep Brain Stimulation Work? Present Understanding and Future Questions. Journal of Clinical Neurophysiology, 2004, 21, 40-50.	1.7	286
3	Tourette syndrome deep brain stimulation: A review and updated recommendations. Movement Disorders, 2015, 30, 448-471.	3.9	236
4	Deep brain stimulation activation volumes and their association with neurophysiological mapping and therapeutic outcomes. Journal of Neurology, Neurosurgery and Psychiatry, 2009, 80, 659-666.	1.9	196
5	Efficacy and Safety of Deep Brain Stimulation in Tourette Syndrome. JAMA Neurology, 2018, 75, 353.	9.0	186
6	Surgical treatment for Parkinson's disease. Lancet Neurology, The, 2004, 3, 719-728.	10.2	162
7	Beneficial Effects of Testosterone Replacement for the Nonmotor Symptoms of Parkinson Disease. Archives of Neurology, 2002, 59, 1750.	4.5	109
8	Rapid calibration of an intracortical brainâ€“computer interface for people with tetraplegia. Journal of Neural Engineering, 2018, 15, 026007.	3.5	95
9	The development of a measure of enculturation for Native American youth. American Journal of Community Psychology, 1996, 24, 295-310.	2.5	75
10	Fiber tractography of the axonal pathways linking the basal ganglia and cerebellum in Parkinson disease: implications for targeting in deep brain stimulation. Journal of Neurosurgery, 2014, 120, 988-996.	1.6	67
11	Machine Learning Approach to Optimizing Combined Stimulation and Medication Therapies for Parkinson's Disease. Brain Stimulation, 2015, 8, 1025-1032.	1.6	66
12	Psychosocial Interventions for Depression and Anxiety in Parkinson's Disease. Journal of Geriatric Psychiatry and Neurology, 2012, 25, 113-121.	2.3	65
13	Pseudobulbar crying induced by stimulation in the region of the subthalamic nucleus. Journal of Neurology, Neurosurgery and Psychiatry, 2004, 75, 921-923.	1.9	62
14	Hypothalamic and Olfactory Control of Sexual Behavior and Partner Preference in Male Rats. Physiology and Behavior, 1996, 60, 1347-1354.	2.1	57
15	The International Deep Brain Stimulation Registry and Database for Gilles de la Tourette Syndrome: How Does It Work?. Frontiers in Neuroscience, 2016, 10, 170.	2.8	55
16	Somatotopic organization in the internal segment of the globus pallidus in Parkinson's disease. Experimental Neurology, 2010, 222, 219-225.	4.1	50
17	Neuromodulation in multiple sclerosis. Multiple Sclerosis Journal, 2017, 23, 1663-1676.	3.0	45
18	Dynamic High-Cadence Cycling Improves Motor Symptoms in Parkinsonâ€™s Disease. Frontiers in Neurology, 2015, 6, 194.	2.4	44

#	Article	IF	Citations
19	A randomized trial of individual versus group-format exercise and self-management in individuals with Parkinson’s disease and comorbid depression. Patient Preference and Adherence, 2017, Volume 11, 965-973.	1.8	43
20	Feedback control policies employed by people using intracortical brainâ€“computer interfaces. Journal of Neural Engineering, 2017, 14, 016001.	3.5	41
21	Automated motion sensor quantification of gait and lower extremity bradykinesia. , 2012, 2012, 1956-9.		37
22	Quantitative analysis of gait and balance response to deep brain stimulation in Parkinson's disease. Gait and Posture, 2013, 38, 109-114.	1.4	31
23	Enhanced Exercise Therapy in Parkinson's disease: A comparative effectiveness trial. Journal of Science and Medicine in Sport, 2016, 19, 12-17.	1.3	31
24	Automated 3-Dimensional Brain Atlas Fitting to Microelectrode Recordings from Deep Brain Stimulation Surgeries. Stereotactic and Functional Neurosurgery, 2009, 87, 229-240.	1.5	28
25	Principled BCI Decoder Design and Parameter Selection Using a Feedback Control Model. Scientific Reports, 2019, 9, 8881.	3.3	28
26	Signal processing methods for reducing artifacts in microelectrode brain recordings caused by functional electrical stimulation. Journal of Neural Engineering, 2018, 15, 026014.	3.5	26
27	Cardiovascular autonomic dysfunction in patients with movement disorders.. Cleveland Clinic Journal of Medicine, 2008, 75, S54-S54.	1.3	25
28	Standard guidelines for publication of deep brain stimulation studies in Parkinson's disease (Guide4DBSâ€PD). Movement Disorders, 2010, 25, 1530-1537.	3.9	20
29	Optimizing extended-release carbidopa/levodopa in Parkinson disease. Neurology: Clinical Practice, 2017, 7, 86-93.	1.6	20
30	A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brainâ€“Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2018, 65, 2066-2078.	4.2	19
31	Test and Validation of a Smart Exercise Bike for Motor Rehabilitation in Individuals With Parkinsonâ€™s Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1254-1264.	4.9	18
32	Targeting neurons in the gastrointestinal tract to treat Parkinson's disease. Clinical Parkinsonism & Related Disorders, 2019, 1, 2-7.	0.9	18
33	Directional Stimulation in Parkinson's Disease and Essential Tremor: The Cleveland Clinic Experience. Neuromodulation, 2022, 25, 829-835.	0.8	16
34	Neural Representation of Observed, Imagined, and Attempted Grasping Force in Motor Cortex of Individuals with Chronic Tetraplegia. Scientific Reports, 2020, 10, 1429.	3.3	16
35	Parkinsonâ€™s Disease and Other Movement Disorders. , 2011, , 567-646.		9
36	Signal-independent noise in intracortical brainâ€“computer interfaces causes movement time properties inconsistent with Fittsâ€™ law. Journal of Neural Engineering, 2017, 14, 026010.	3.5	9

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37	The Neural Representation of Force across Grasp Types in Motor Cortex of Humans with Tetraplegia. ENeuro, 2021, 8, ENEURO.0231-20.2020.	1.9	9
38	North American survey on impact of the COVID-19 pandemic shutdown on DBS care. Parkinsonism and Related Disorders, 2021, 92, 41-45.	2.2	8
39	Novel magnetomechanical MR compatible vibrational device for producing kinesthetic illusion during fMRI. Medical Physics, 2013, 40, 112303.	3.0	7
40	CLINICAL PROBLEM SOLVING. Neurosurgery, 2007, 61, 815-825.	1.1	6
41	A Method for Predicting the Outcomes of Combined Pharmacologic and Deep Brain Stimulation Therapy for Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2014, 17, 188-195.	1.3	5
42	Web-Interface-Driven Development for Neuro3D, a Clinical Data Capture and Decision Support System for Deep Brain Stimulation. Lecture Notes in Computer Science, 2016, , 31-42.	1.3	4
43	Pathophysiology of Hyperkinetic Movement Disorders. , 2012, , 1-22.		3
44	Current Neurosurgical Treatments for Parkinson's Disease: Where Did They Come From?. , 2005, , 159-173.		2
45	Multitract Orthogonal Microelectrode Localization of the Subthalamic Nucleus: Description of a Novel Technique. Operative Neurosurgery, 2014, 10, 240-245.	0.8	2
46	Letters to the Editor: The cerebellum and Parkinson's disease. Journal of Neurosurgery, 2014, 121, 494-495.	1.6	1
47	Ethical Considerations of Broadcasting Awake Brain Stimulation Surgery: Reigniting a Debate. Brain Stimulation, 2016, 9, 320-322.	1.6	0