Andres Lozano

List of Publications by Year
in descending order

752 papers	69,499 citations	558 126 h-index	1051 234 g-index
788 all docs	788 docs citations	788 times ranked	33032 citing authors

#	Article	IF	Citations
1	Deep Brain Stimulation for Treatment-Resistant Depression. Neuron, 2005, 45, 651-660.	8.1	3,560
2	Parkinson's Disease. New England Journal of Medicine, 1998, 339, 1044-1053.	27.0	1,876
3	Parkinson's Disease. New England Journal of Medicine, 1998, 339, 1130-1143.	27.0	1,147
4	Bilateral deep brain stimulation in Parkinson's disease: a multicentre study with 4 years follow-up. Brain, 2005, 128, 2240-2249.	7.6	963
5	Randomized controlled trial of intraputamenal glial cell lineâ€"derived neurotrophic factor infusion in Parkinson disease. Annals of Neurology, 2006, 59, 459-466.	5.3	890
6	Subcallosal Cingulate Gyrus Deep Brain Stimulation for Treatment-Resistant Depression. Biological Psychiatry, 2008, 64, 461-467.	1.3	865
7	Deep Brain Stimulation for Parkinson Disease. Archives of Neurology, 2011, 68, 165.	4.5	776
8	Randomized, double-blind trial of glial cell line-derived neurotrophic factor (GDNF) in PD. Neurology, 2003, 60, 69-73.	1.1	771
9	A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. New England Journal of Medicine, 2016, 375, 730-739.	27.0	770
10	Bilateral deep brain stimulation of the pedunculopontine and subthalamic nuclei in severe Parkinson's disease. Brain, 2007, 130, 1596-1607.	7.6	739
11	Deep brain stimulation: current challenges and future directions. Nature Reviews Neurology, 2019, 15, 148-160.	10.1	721
12	The pedunculopontine nucleus and Parkinson's disease. Brain, 2000, 123, 1767-1783.	7.6	701
13	A phase I trial of deep brain stimulation of memory circuits in Alzheimer's disease. Annals of Neurology, 2010, 68, 521-534.	5.3	685
14	Neurophysiological identification of the subthalamic nucleus in surgery for Parkinson's disease. Annals of Neurology, 1998, 44, 622-628.	5.3	653
15	Pain-related neurons in the human cingulate cortex. Nature Neuroscience, 1999, 2, 403-405.	14.8	651
16	Dependence of subthalamic nucleus oscillations on movement and dopamine in Parkinsonâ€™s disease. Brain, 2002, 125, 1196-1209.	7.6	645
17	Hypersensitivity of DJ-1-deficient mice to 1-methyl-4-phenyl-1,2,3,6-tetrahydropyrindine (MPTP) and oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5215-5220.	7.1	639
18	Effect of GPi pallidotomy on motor function in Parkinson's disease. Lancet, The, 1995, 346, 1383-1387.	13.7	620

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19	Double-blind evaluation of subthalamic nucleus deep brain stimulation in advanced Parkinson's disease. Neurology, 1998, 51, 850-855.	1.1	608
20	Past, present, and future of Parkinson's disease: A special essay on the 200th Anniversary of the Shaking Palsy. Movement Disorders, 2017, 32, 1264-1310.	3.9	608
21	Gene delivery of AAV2-neurturin for Parkinson's disease: a double-blind, randomised, controlled trial. Lancet Neurology, The, 2010, 9, 1164-1172.	10.2	589
22	Chronic Anterior Thalamus Stimulation for Intractableâ€ƒEpilepsy. Epilepsia, 2002, 43, 603-608.	5.1	540
23	High-frequency Synchronization of Neuronal Activity in the Subthalamic Nucleus of Parkinsonian Patients with Limb Tremor. Journal of Neuroscience, 2000, 20, 7766-7775.	3.6	538
24	Beta Oscillatory Activity in the Subthalamic Nucleus and Its Relation to Dopaminergic Response in Parkinson's Disease. Journal of Neurophysiology, 2006, 96, 3248-3256.	1.8	520
25	Probing and Regulating Dysfunctional Circuits Using Deep Brain Stimulation. Neuron, 2013, 77, 406-424.	8.1	519
26	Anatomical Connectivity of the Subgenual Cingulate Region Targeted with Deep Brain Stimulation for Treatment-Resistant Depression. Cerebral Cortex, 2008, 18, 1374-1383.	2.9	516
27	The subthalamic nucleus in the context of movement disorders. Brain, 2004, 127, 4-20.	7.6	507
28	Neuropsychological consequences of chronic bilateral stimulation of the subthalamic nucleus in Parkinson's disease. Brain, 2000, 123, 2091-2108.	7.6	488
29	Resting-state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4367-75.	7.1	486
30	MR-guided focused ultrasound thalamotomy for essential tremor: a proof-of-concept study. Lancet Neurology, The, 2013, 12, 462-468.	10.2	475
31	A multicentre study on suicide outcomes following subthalamic stimulation for Parkinson's disease. Brain, 2008, 131, 2720-2728.	7.6	460
32	Memory enhancement induced by hypothalamic/fornix deep brain stimulation. Annals of Neurology, 2008, 63, 119-123.	5.3	455
33	Posteroventral Medial Pallidotomy in Advanced Parkinson's Disease. New England Journal of Medicine, 1997, 337, 1036-1043.	27.0	453
34	Deep Brain Stimulation for Treatment-Resistant Depression: Follow-Up After 3 to 6 Years. American Journal of Psychiatry, 2011, 168, 502-510.	7.2	453
35	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Anatomy and Terminology. Stereotactic and Functional Neurosurgery, 2016, 94, 298-306.	1.5	452
36	Microstimulation-Induced Inhibition of Neuronal Firing in Human Globus Pallidus. Journal of Neurophysiology, 2000, 84, 570-574.	1.8	422

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37	The Subcallosal Cingulate Gyrus in the Context of Major Depression. Biological Psychiatry, 2011, 69, 301-308.	1.3	404
38	Ten-Year Outcome of Subthalamic Stimulation in Parkinson Disease. Archives of Neurology, 2011, 68, 1550.	4.5	397
39	Unilateral pedunculopontine stimulation improves falls in Parkinson's disease. Brain, 2010, 133, 215-224.	7.6	388
40	Implantation of human pedunculopontine nucleus: a safe and clinically relevant target in Parkinson's disease. NeuroReport, 2005, 16, 1877-1881.	1.2	383
41	Longâ€term results of a multicenter study on subthalamic and pallidal stimulation in Parkinson's disease. Movement Disorders, 2010, 25, 578-586.	3.9	382
42	Subcallosal cingulate deep brain stimulation for treatment-resistant depression: a multisite, randomised, sham-controlled trial. Lancet Psychiatry,the, 2017, 4, 839-849.	7.4	382
43	Mechanisms of deep brain stimulation. Movement Disorders, 2002, 17, S63-S68.	3.9	381
44	Globus pallidus internus pallidotomy for generalized dystonia. Movement Disorders, 1997, 12, 865-870.	3.9	379
45	Priorities in Parkinson's disease research. Nature Reviews Drug Discovery, 2011, 10, 377-393.	46.4	364
46	Globus pallidus deep brain stimulation for generalized dystonia: Clinical and PET investigation. Neurology, 1999, 53, 871-871.	1.1	362
47	Unbiased screen for interactors of leucine-rich repeat kinase 2 supports a common pathway for sporadic and familial Parkinson disease. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2626-2631.	7.1	342
48	Technology of deep brain stimulation: current status and future directions. Nature Reviews Neurology, 2021, 17, 75-87.	10.1	341
49	Stimulation of Entorhinal Cortex Promotes Adult Neurogenesis and Facilitates Spatial Memory. Journal of Neuroscience, 2011, 31, 13469-13484.	3.6	336
50	Methods for microelectrode-guided posteroventral pallidotomy. Journal of Neurosurgery, 1996, 84, 194-202.	1.6	332
51	Mechanism of the silent period following transcranial magnetic stimulation. Experimental Brain Research, 1999, 128, 539-542.	1.5	332
52	A multicenter pilot study of subcallosal cingulate area deep brain stimulation for treatment-resistant depression. Journal of Neurosurgery, 2012, 116, 315-322.	1.6	319
53	Deep brain stimulation for Parkinson's disease: disrupting the disruption. Lancet Neurology, The, 2002, 1, 225-231.	10.2	315
54	Long-term Hardware-related Complications of Deep Brain Stimulation. Neurosurgery, 2002, 50, 1268-1276.	1.1	314

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55	Long-term follow up of bilateral deep brain stimulation of the subthalamic nucleus in patients with advanced Parkinson disease. Journal of Neurosurgery, 2003, 99, 489-495.	1.6	306
56	Expression of the growth-associated protein GAP-43 in adult rat retinal ganglion cells following axon injury. Neuron, 1991, 6, 635-647.	8.1	302
57	Directional deep brain stimulation: an intraoperative double-blind pilot study. Brain, 2014, 137, 2015-2026.	7.6	292
58	Antidepressant-Like Effects of Medial Prefrontal Cortex Deep Brain Stimulation in Rats. Biological Psychiatry, 2010, 67, 117-124.	1.3	284
59	Primary Dystonia Is More Responsive than Secondary Dystonia to Pallidal Interventions: Outcome after Pallidotomy or Pallidal Deep Brain Stimulation. Neurosurgery, 2004, 54, 613-621.	1.1	278
60	Deep brain stimulation: Postoperative issues. Movement Disorders, 2006, 21, S219-S237.	3.9	276
61	Stimulation-induced inhibition of neuronal firing in human subthalamic nucleus. Experimental Brain Research, 2004, 156, 274-281.	1.5	272
62	Localization of clinically effective stimulating electrodes in the human subthalamic nucleus on magnetic resonance imaging. Journal of Neurosurgery, 2002, 97, 1152-1166.	1.6	267
63	Differential neuronal activity in segments of globus pallidus in ParkinsonÊ¼s disease patients. NeuroReport, 1994, 5, 1533-1537.	1.2	264
64	Long-Term Follow-up of Unilateral Pallidotomy in Advanced Parkinson's Disease. New England Journal of Medicine, 2000, 342, 1708-1714.	27.0	263
65	Long-term follow-up of patients with thalamic deep brain stimulation for epilepsy. Neurology, 2006, 66, 1571-1573.	1.1	263
66	A Phase II Study of Fornix Deep Brain Stimulation in Mild Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 777-787.	2.6	263
67	Effects of Apomorphine on Subthalamic Nucleus and Globus Pallidus Internus Neurons in Patients With Parkinson's Disease. Journal of Neurophysiology, 2001, 86, 249-260.	1.8	261
68	Synchronized Neuronal Discharge in the Basal Ganglia of Parkinsonian Patients Is Limited to Oscillatory Activity. Journal of Neuroscience, 2002, 22, 2855-2861.	3.6	258
69	Neuropsychological Outcome of GPi Pallidotomy and GPi or STN Deep Brain Stimulation in Parkinson's Disease. Brain and Cognition, 2000, 42, 324-347.	1.8	255
70	Î±â€Synuclein oligomers and clinical implications for Parkinson disease. Annals of Neurology, 2013, 73, 155-169.	5.3	255
71	Comparative effects of unilateral and bilateral subthalamic nucleus deep brain stimulation. Neurology, 1999, 53, 561-561.	1.1	252
72	Pallidal neuronal activity: Implications for models of dystonia. Annals of Neurology, 2003, 53, 480-488.	5.3	246

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73	Multilevel anterior cervical corpectomy and fibular allograft fusion for cervical myelopathy. Journal of Neurosurgery, 1997, 86, 990-997.	1.6	241
74	Subcallosal cingulate deep brain stimulation for treatment-refractory anorexia nervosa: a phase 1 pilot trial. Lancet, The, 2013, 381, 1361-1370.	13.7	236
75	Tourette syndrome deep brain stimulation: A review and updated recommendations. Movement Disorders, 2015, 30, 448-471.	3.9	236
76	Phantom sensations generated by thalamic microstimulation. Nature, 1998, 391, 385-387.	27.8	229
77	Bilateral Subthalamic Nucleus Stimulation for Parkinson's Disease: A Systematic Review of the Clinical Literature. Neurosurgery, 2005, 56, 1313-1324.	1.1	229
78	Long-term Hardware-related Complications of Deep Brain Stimulation. Neurosurgery, 2002, 50, 1268-1276.	1.1	227
79	Stimulation of the subthalamic nucleus and impulsivity: Release your horses. Annals of Neurology, 2009, 66, 817-824.	5.3	225
80	Gene delivery of neurturin to putamen and substantia nigra in <scp>P</scp>arkinson disease: A doubleâ€blind, randomized, controlled trial. Annals of Neurology, 2015, 78, 248-257.	5.3	224
81	Long-term outcome of bilateral pallidal deep brain stimulation for primary cervical dystonia. Neurology, 2007, 68, 457-459.	1.1	223
82	Globus pallidus stimulation activates the cortical motor system during alleviation of parkinsonian symptoms. Nature Medicine, 1997, 3, 671-674.	30.7	216
83	Efficacy and safety of motor cortex stimulation for chronic neuropathic pain: critical review of the literature. Journal of Neurosurgery, 2009, 110, 251-256.	1.6	211
84	Bilateral globus pallidus stimulation for Huntington's disease. Annals of Neurology, 2004, 56, 290-294.	5.3	207
85	Long-term follow-up of thalamic deep brain stimulation for essential and parkinsonian tremor. Neurology, 2003, 61, 1601-1604.	1.1	204
86	BAG5 Inhibits Parkin and Enhances Dopaminergic Neuron Degeneration. Neuron, 2004, 44, 931-945.	8.1	199
87	A unified connectomic target for deep brain stimulation in obsessive-compulsive disorder. Nature Communications, 2020, 11, 3364.	12.8	199
88	Hardware-Related Complications of Deep Brain Stimulation: A Review of the Published Literature. Stereotactic and Functional Neurosurgery, 2006, 84, 248-251.	1.5	197
89	Deep brain stimulation: a novel strategy for treating Alzheimer's disease. Innovations in Clinical Neuroscience, 2012, 9, 10-7.	0.1	196
90	Identification and characterization of neurons with tremor-frequency activity in human globus pallidus. Experimental Brain Research, 1997, 113, 557-563.	1.5	195

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91	Low-intensity ultrasound neuromodulation: An overview of mechanisms and emerging human applications. Brain Stimulation, 2018, 11, 1209-1217.	1.6	193
92	Deep brain stimulation for Parkinson's disease dissociates mood and motor circuits: A functional MRI case study. Movement Disorders, 2003, 18, 1508-1516.	3.9	191
93	Effects of apomorphine on globus pallidus neurons in parkinsonian patients. Annals of Neurology, 1997, 42, 767-775.	5.3	189
94	Efficacy and Safety of Deep Brain Stimulation in Tourette Syndrome. JAMA Neurology, 2018, 75, 353.	9.0	186
95	Eight-hours adaptive deep brain stimulation in patients with Parkinson disease. Neurology, 2018, 90, e971-e976.	1.1	181
96	Deep brain stimulation for chronic neuropathic pain: Long-term outcome and the incidence of insertional effect. Pain, 2006, 125, 188-196.	4.2	180
97	Highly cited works in neurosurgery. Part I: the 100 top-cited papers in neurosurgical journals. Journal of Neurosurgery, 2010, 112, 223-232.	1.6	180
98	Safety/feasibility of targeting the substantia nigra with AAV2-neurturin in Parkinson patients. Neurology, 2013, 80, 1698-1701.	1.1	178
99	Human Anterior Cingulate Cortex Neurons Encode Cognitive and Emotional Demands. Journal of Neuroscience, 2005, 25, 8402-8406.	3.6	177
100	Current and future directions of deep brain stimulation for neurological and psychiatric disorders. Journal of Neurosurgery, 2019, 131, 333-342.	1.6	173
101	Lidocaine and muscimol microinjections in subthalamic nucleus reverse parkinsonian symptoms. Brain, 2001, 124, 2105-2118.	7.6	168
102	The regulation of adult rodent hippocampal neurogenesis by deep brain stimulation. Journal of Neurosurgery, 2008, 108, 132-138.	1.6	167
103	Pedunculopontine nucleus deep brain stimulation in Parkinson's disease: A clinical review. Movement Disorders, 2018, 33, 10-20.	3.9	166
104	Thalamic stimulation and functional magnetic resonance imaging: localization of cortical and subcortical activation with implanted electrodes. Journal of Neurosurgery, 1999, 90, 583-590.	1.6	164
105	Programming Deep Brain Stimulation for Parkinson's Disease: The Toronto Western Hospital Algorithms. Brain Stimulation, 2016, 9, 425-437.	1.6	164
106	The Fragile X Premutation Presenting as Essential Tremor. Archives of Neurology, 2003, 60, 117.	4.5	162
107	Milestones in Parkinson's disease therapeutics. Movement Disorders, 2011, 26, 1072-1082.	3.9	162
108	Deep Brain Stimulation Influences Brain Structure in Alzheimer's Disease. Brain Stimulation, 2015, 8, 645-654.	1.6	162

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109	Determining the position and size of the subthalamic nucleus based on magnetic resonance imaging results in patients with advanced Parkinson disease. Journal of Neurosurgery, 2004, 100, 541-546.	1.6	161
110	Physiology of freezing of gait. Annals of Neurology, 2016, 80, 644-659.	5.3	160
111	Neuropsychological consequences of posteroventral pallidotomy for the treatment of Parkinson's disease. Neurology, 1998, 51, 207-215.	1.1	157
112	Effects of subthalamic nucleus stimulation on motor cortex excitability in Parkinsonâ€™s disease. Neurology, 2002, 58, 1665-1672.	1.1	155
113	Relationship of lesion location to clinical outcome following microelectrode-guided pallidotomy for Parkinson's disease. Brain, 1999, 122, 405-416.	7.6	153
114	Direct visualization of deep brain stimulation targets in Parkinson disease with the use of 7-tesla magnetic resonance imaging. Journal of Neurosurgery, 2010, 113, 639-647.	1.6	153
115	Neurophysiological effects of stimulation through electrodes in the human subthalamic nucleus. Brain, 1999, 122, 1919-1931.	7.6	152
116	Consensus on guidelines for stereotactic neurosurgery for psychiatric disorders. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 1003-1008.	1.9	150
117	Increased Cerebral Metabolism After 1 Year of Deep Brain Stimulation in Alzheimer Disease. Archives of Neurology, 2012, 69, 1141-8.	4.5	148
118	Tractographyâ€Based Ventral Intermediate Nucleus Targeting: Novel Methodology and Intraoperative Validation. Movement Disorders, 2016, 31, 1217-1225.	3.9	146
119	Familial intracranial aneurysms. Journal of Neurosurgery, 1987, 66, 522-528.	1.6	144
120	Functional convergence of developmentally and adultâ€generated granule cells in dentate gyrus circuits supporting hippocampusâ€dependent memory. Hippocampus, 2011, 21, 1348-1362.	1.9	144
121	Human Anterior Cingulate Cortex Neurons Modulated by Attention-Demanding Tasks. Journal of Neurophysiology, 2000, 83, 3575-3577.	1.8	143
122	Bilateral Anterior Thalamic Nucleus Lesions and High-frequency Stimulation Are Protective against Pilocarpine-induced Seizures and Status Epilepticus. Neurosurgery, 2004, 54, 191-197.	1.1	143
123	Deep brain stimulation of the subcallosal cingulate gyrus for depression: anatomical location of active contacts in clinical responders and a suggested guideline for targeting. Journal of Neurosurgery, 2009, 111, 1209-1215.	1.6	143
124	Cellular, molecular, and clinical mechanisms of action of deep brain stimulationâ€”a systematic review on established indications and outlook on future developments. EMBO Molecular Medicine, 2019, 11, .	6.9	141
125	Outcomes from stereotactic surgery for essential tremor. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 474-482.	1.9	141
126	Longâ€term effects of pallidal or subthalamic deep brain stimulation on quality of life in Parkinson's disease. Movement Disorders, 2009, 24, 1154-1161.	3.9	140

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127	Movement-related neurons of the subthalamic nucleus in patients with Parkinson disease. Journal of Neurosurgery, 2002, 97, 1167-1172.	1.6	134
128	Advances in neurostimulation for movement disorders. Neurological Research, 2000, 22, 247-258.	1.3	133
129	Networks mediating the clinical effects of pallidal brain stimulation for Parkinson's disease: A PET study of resting-state glucose metabolism. Brain, 2001, 124, 1601-1609.	7.6	133
130	Incidence of silent hemorrhage and delayed deterioration after stereotactic brain biopsy. Journal of Neurosurgery, 1998, 89, 31-35.	1.6	132
131	Increased Gamma Oscillatory Activity in the Subthalamic Nucleus During Tremor in Parkinson's Disease Patients. Journal of Neurophysiology, 2009, 101, 789-802.	1.8	131
132	Predicting optimal deep brain stimulation parameters for Parkinsonâ€™s disease using functional MRI and machine learning. Nature Communications, 2021, 12, 3043.	12.8	130
133	Neuronal Firing Rates and Patterns in the Globus Pallidus Internus of Patients With Cervical Dystonia Differ From Those With Parkinson's Disease. Journal of Neurophysiology, 2007, 98, 720-729.	1.8	129
134	DEEP BRAIN STIMULATION FOR TREATMENT-REFRACTORY OBSESSIVE-COMPULSIVE DISORDER. Neurosurgery, 2007, 61, 1-13.	1.1	129
135	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. Brain, 2018, 141, 3405-3414.	7.6	129
136	Effects of different stimulation parameters on the antidepressant-like response of medial prefrontal cortex deep brain stimulation in rats. Journal of Psychiatric Research, 2010, 44, 683-687.	3.1	128
137	Thalamic Relay Site for Cold Perception in Humans. Journal of Neurophysiology, 1999, 81, 1970-1973.	1.8	127
138	Potentials recorded at the scalp by stimulation near the human subthalamic nucleus. Clinical Neurophysiology, 2001, 112, 431-437.	1.5	127
139	Neuropsychological Impact of Cg25 Deep Brain Stimulation for Treatment-Resistant Depression. Journal of Nervous and Mental Disease, 2008, 196, 405-410.	1.0	126
140	The Nature and Time Course of Cortical Activation Following Subthalamic Stimulation in Parkinson's Disease. Cerebral Cortex, 2010, 20, 1926-1936.	2.9	125
141	Exclusion of mutations in the gene for type III collagen (COL3A1) as a common cause of intracranial aneurysms or cervical artery dissections. Neurology, 1993, 43, 2652-2652.	1.1	125
142	Deep brain stimulation of the subcallosal cingulate for treatment-refractory anorexia nervosa: 1 year follow-up of an open-label trial. Lancet Psychiatry,the, 2017, 4, 285-294.	7.4	124
143	A prospective trial of magnetic resonanceâ€“guided focused ultrasound thalamotomy for essential tremor: Results at the 2â€year followâ€up. Annals of Neurology, 2018, 83, 107-114.	5.3	120
144	A comparison of the burst activity of lateral thalamic neurons in chronic pain and non-pain patients. Pain, 1999, 80, 567-575.	4.2	119

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145	Ubiquitinylation of Î±-Synuclein by Carboxyl Terminus Hsp70-Interacting Protein (CHIP) Is Regulated by Bcl-2-Associated Athanogene 5 (BAG5). PLoS ONE, 2011, 6, e14695.	2.5	119
146	Systematic review of hardware-related complications of Deep Brain Stimulation: Do new indications pose an increased risk?. Brain Stimulation, 2017, 10, 967-976.	1.6	118
147	Short- and long-term outcome of chronic pallidal neurostimulation in monogenic isolated dystonia. Neurology, 2015, 84, 895-903.	1.1	117
148	Pallidotomy for Parkinson disease: a review of contemporary literature. Journal of Neurosurgery, 2001, 94, 43-49.	1.6	114
149	Deep brain stimulation of the anterior nucleus of the thalamus: Effects of electrical stimulation on pilocarpine-induced seizures and status epilepticus. Epilepsy Research, 2008, 78, 117-123.	1.6	113
150	Neurogenic hippocampal targets of deep brain stimulation. Journal of Comparative Neurology, 2011, 519, 6-20.	1.6	112
151	Involvement of human thalamus in the preparation of self-paced movement. Brain, 2004, 127, 2717-2731.	7.6	111
152	Cortical activation with deep brain stimulation of the anterior thalamus for epilepsy. Clinical Neurophysiology, 2006, 117, 192-207.	1.5	110
153	The rise of robots in surgical environments during COVID-19. Nature Machine Intelligence, 2020, 2, 566-572.	16.0	108
154	Functional correlates of pallidal stimulation for Parkinson's disease. Annals of Neurology, 2001, 49, 155-164.	5.3	107
155	Levodopa enhances synaptic plasticity in the substantia nigra pars reticulata of Parkinson's disease patients. Brain, 2009, 132, 309-318.	7.6	107
156	Levodopa response in longâ€term bilateral subthalamic stimulation for Parkinson's disease. Movement Disorders, 2007, 22, 990-997.	3.9	106
157	Selective enhancement of rapid eye movement sleep by deep brain stimulation of the human pons. Annals of Neurology, 2009, 66, 110-114.	5.3	106
158	DEEP BRAIN STIMULATION FOR THE TREATMENT OF EPILEPSY. International Journal of Neural Systems, 2009, 19, 213-226.	5.2	105
159	Pedunculopontine nucleus microelectrode recordings in movement disorder patients. Experimental Brain Research, 2008, 188, 165-174.	1.5	104
160	Relationship of lesion location to cognitive outcome following microelectrode-guided pallidotomy for Parkinson's disease: Support for the existence of cognitive circuits in the human pallidum. Brain, 2000, 123, 746-758.	7.6	103
161	Surgery of the motor thalamus: Problems with the present nomenclatures. Movement Disorders, 2002, 17, S2-S8.	3.9	103
162	Disease modification and biomarker development in Parkinson disease. Neurology, 2020, 94, 481-494.	1.1	103

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163	Depth electrode recorded cerebral responses with deep brain stimulation of the anterior thalamus for epilepsy. Clinical Neurophysiology, 2006, 117, 1602-1609.	1.5	102
164	Bilateral pallidal stimulation in cervical dystonia: blinded evidence of benefit beyond 5 years. Brain, 2013, 136, 761-769.	7.6	101
165	An investigation of the effects of subthalamic nucleus stimulation on acoustic measures of voice. Movement Disorders, 2000, 15, 1132-1138.	3.9	100
166	Differences in Neuronal Firing Rates in Pallidal and Cerebellar Receiving Areas of Thalamus in Patients With Parkinson's Disease, Essential Tremor, and Pain. Journal of Neurophysiology, 2005, 93, 3094-3101.	1.8	100
167	Anterior Nucleus Deep Brain Stimulation for Refractory Epilepsy. Neurosurgery, 2016, 78, 802-811.	1.1	100
168	Cerebral blood flow changes induced by pedunculopontine nucleus stimulation in patients with advanced Parkinson's disease: A [¹⁵O] H₂O PET study. Human Brain Mapping, 2009, 30, 3901-3909.	3.6	99
169	Treatment resistant depression as a failure of brain homeostatic mechanisms: Implications for deep brain stimulation. Experimental Neurology, 2009, 219, 44-52.	4.1	98
170	Altered pain and temperature perception following cingulotomy and capsulotomy in a patient with schizoaffective disorder. Pain, 1994, 59, 189-199.	4.2	97
171	Activation of the anterior cingulate cortex by thalamic stimulation in patients with chronic pain: a positron emission tomography study. Journal of Neurosurgery, 2000, 92, 64-69.	1.6	97
172	Memory rescue and enhanced neurogenesis following electrical stimulation of the anterior thalamus in rats treated with corticosterone. Experimental Neurology, 2011, 232, 100-104.	4.1	97
173	Vim Thalamic Stimulation for Tremor. Archives of Medical Research, 2000, 31, 266-269.	3.3	96
174	Deep brain stimulation for ParkinsonÊ¼s disease and other movement disorders. Current Opinion in Neurology, 2013, 26, 374-380.	3.6	96
175	Physiological mechanisms of thalamic ventral intermediate nucleus stimulation for tremor suppression. Brain, 2018, 141, 2142-2155.	7.6	96
176	Characterization of REM-Sleep Associated Ponto-Geniculo-Occipital Waves in the Human Pons. Sleep, 2007, 30, 823-827.	1.1	95
177	Tremor arrest with thalamic microinjections of muscimol in patients with essential tremor. Annals of Neurology, 1999, 46, 249-252.	5.3	93
178	A Brief History of Pallidotomy. Neurosurgery, 1997, 41, 1169-1183.	1.1	91
179	Neuronal inhibition and synaptic plasticity of basal ganglia neurons in Parkinson's disease. Brain, 2018, 141, 177-190.	7.6	91
180	Oscillatory activity in the globus pallidus internus: Comparison between Parkinsonâ€™s disease and dystonia. Clinical Neurophysiology, 2012, 123, 358-368.	1.5	90

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181	Deep Brain Stimulation for the Treatment of Alzheimer Disease and Dementias. World Neurosurgery, 2013, 80, S28.e1-S28.e8.	1.3	89
182	Deep Brain Stimulation and Thalamotomy for Tremor Compared. Acta Neurochirurgica Supplementum, 1997, 68, 49-53.	1.0	88
183	Intracranial volume conduction of cortical spikes and sleep potentials recorded with deep brain stimulating electrodes. Clinical Neurophysiology, 2003, 114, 1403-1418.	1.5	87
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