

Andres Lozano

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1560503/andres-lozano-publications-by-citations.pdf>
Version: 2024-04-04

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

742 papers	54,475 citations	115 h-index	213 g-index
788 ext. papers	62,030 ext. citations	6 avg, IF	7.64 L-index

#	Paper	IF	Citations
742	Deep brain stimulation for treatment-resistant depression. <i>Neuron</i> , 2005 , 45, 651-60	13.9	2899
741	Parkinson's disease. First of two parts. <i>New England Journal of Medicine</i> , 1998 , 339, 1044-53	59.2	1636
740	Parkinson's disease. Second of two parts. <i>New England Journal of Medicine</i> , 1998 , 339, 1130-43	59.2	972
739	Bilateral deep brain stimulation in Parkinson's disease: a multicentre study with 4 years follow-up. <i>Brain</i> , 2005 , 128, 2240-9	11.2	837
738	Randomized controlled trial of intraputamenal glial cell line-derived neurotrophic factor infusion in Parkinson disease. <i>Annals of Neurology</i> , 2006 , 59, 459-66	9.4	785
737	Subcallosal cingulate gyrus deep brain stimulation for treatment-resistant depression. <i>Biological Psychiatry</i> , 2008 , 64, 461-7	7.9	731
736	Randomized, double-blind trial of glial cell line-derived neurotrophic factor (GDNF) in PD. <i>Neurology</i> , 2003 , 60, 69-73	6.5	674
735	Bilateral deep brain stimulation of the pedunculopontine and subthalamic nuclei in severe Parkinson's disease. <i>Brain</i> , 2007 , 130, 1596-607	11.2	641
734	Deep brain stimulation for Parkinson disease: an expert consensus and review of key issues. <i>Archives of Neurology</i> , 2011 , 68, 165		592
733	Hypersensitivity of DJ-1-deficient mice to 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) and oxidative stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5215-20	11.5	581
732	Neurophysiological identification of the subthalamic nucleus in surgery for Parkinson's disease. <i>Annals of Neurology</i> , 1998 , 44, 622-8	9.4	580
731	The pedunculopontine nucleus and Parkinson's disease. <i>Brain</i> , 2000 , 123 (Pt 9), 1767-83	11.2	562
730	A phase I trial of deep brain stimulation of memory circuits in Alzheimer's disease. <i>Annals of Neurology</i> , 2010 , 68, 521-34	9.4	549
729	Double-blind evaluation of subthalamic nucleus deep brain stimulation in advanced Parkinson's disease. <i>Neurology</i> , 1998 , 51, 850-5	6.5	547
728	Effect of GPi pallidotomy on motor function in Parkinson's disease. <i>Lancet, The</i> , 1995 , 346, 1383-7	40	547
727	Dependence of subthalamic nucleus oscillations on movement and dopamine in Parkinson's disease. <i>Brain</i> , 2002 , 125, 1196-209	11.2	545
726	Pain-related neurons in the human cingulate cortex. <i>Nature Neuroscience</i> , 1999 , 2, 403-5	25.5	539

725	A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. <i>New England Journal of Medicine</i> , 2016 , 375, 730-9	59.2	522
724	Gene delivery of AAV2-neurturin for Parkinson's disease: a double-blind, randomised, controlled trial. <i>Lancet Neurology</i> , 2010 , 9, 1164-1172	24.1	498
723	Chronic anterior thalamus stimulation for intractable epilepsy. <i>Epilepsia</i> , 2002 , 43, 603-8	6.4	451
722	Anatomical connectivity of the subgenual cingulate region targeted with deep brain stimulation for treatment-resistant depression. <i>Cerebral Cortex</i> , 2008 , 18, 1374-83	5.1	450
721	High-frequency synchronization of neuronal activity in the subthalamic nucleus of parkinsonian patients with limb tremor. <i>Journal of Neuroscience</i> , 2000 , 20, 7766-75	6.6	450
720	Beta oscillatory activity in the subthalamic nucleus and its relation to dopaminergic response in Parkinson's disease. <i>Journal of Neurophysiology</i> , 2006 , 96, 3248-56	3.2	413
719	The subthalamic nucleus in the context of movement disorders. <i>Brain</i> , 2004 , 127, 4-20	11.2	413
718	Neuropsychological consequences of chronic bilateral stimulation of the subthalamic nucleus in Parkinson's disease. <i>Brain</i> , 2000 , 123 (Pt 10), 2091-108	11.2	411
717	MR-guided focused ultrasound thalamotomy for essential tremor: a proof-of-concept study. <i>Lancet Neurology</i> , 2013 , 12, 462-8	24.1	401
716	Probing and regulating dysfunctional circuits using deep brain stimulation. <i>Neuron</i> , 2013 , 77, 406-24	13.9	393
715	Posteroventral medial pallidotomy in advanced Parkinson's disease. <i>New England Journal of Medicine</i> , 1997 , 337, 1036-42	59.2	392
714	A multicentre study on suicide outcomes following subthalamic stimulation for Parkinson's disease. <i>Brain</i> , 2008 , 131, 2720-8	11.2	392
713	Memory enhancement induced by hypothalamic/fornix deep brain stimulation. <i>Annals of Neurology</i> , 2008 , 63, 119-23	9.4	386
712	Deep brain stimulation for treatment-resistant depression: follow-up after 3 to 6 years. <i>American Journal of Psychiatry</i> , 2011 , 168, 502-10	11.9	376
711	Past, present, and future of Parkinson's disease: A special essay on the 200th Anniversary of the Shaking Palsy. <i>Movement Disorders</i> , 2017 , 32, 1264-1310	7	375
710	Microstimulation-induced inhibition of neuronal firing in human globus pallidus. <i>Journal of Neurophysiology</i> , 2000 , 84, 570-4	3.2	358
709	Resting-state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4367-75	11.5	348
708	Implantation of human pedunculo-pontine nucleus: a safe and clinically relevant target in Parkinson's disease. <i>NeuroReport</i> , 2005 , 16, 1877-81	1.7	343

707	Unilateral pedunculopontine stimulation improves falls in Parkinson's disease. <i>Brain</i> , 2010 , 133, 215-24	11.2	336
706	Globus pallidus internus pallidotomy for generalized dystonia. <i>Movement Disorders</i> , 1997 , 12, 865-70	7	329
705	The subcallosal cingulate gyrus in the context of major depression. <i>Biological Psychiatry</i> , 2011 , 69, 301-8	7.9	327
704	Deep brain stimulation: current challenges and future directions. <i>Nature Reviews Neurology</i> , 2019 , 15, 148-160	15	320
703	Long-term results of a multicenter study on subthalamic and pallidal stimulation in Parkinson's disease. <i>Movement Disorders</i> , 2010 , 25, 578-86	7	319
702	Priorities in Parkinson's disease research. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 377-93	64.1	317
701	Globus pallidus deep brain stimulation for generalized dystonia: clinical and PET investigation. <i>Neurology</i> , 1999 , 53, 871-4	6.5	308
700	Ten-year outcome of subthalamic stimulation in Parkinson disease: a blinded evaluation. <i>Archives of Neurology</i> , 2011 , 68, 1550-6		304
699	Mechanisms of deep brain stimulation. <i>Movement Disorders</i> , 2002 , 17 Suppl 3, S63-8	7	298
698	Expression of the growth-associated protein GAP-43 in adult rat retinal ganglion cells following axon injury. <i>Neuron</i> , 1991 , 6, 635-47	13.9	286
697	Unbiased screen for interactors of leucine-rich repeat kinase 2 supports a common pathway for sporadic and familial Parkinson disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2626-31	11.5	282
696	Mechanism of the silent period following transcranial magnetic stimulation. Evidence from epidural recordings. <i>Experimental Brain Research</i> , 1999 , 128, 539-42	2.3	282
695	Stimulation of entorhinal cortex promotes adult neurogenesis and facilitates spatial memory. <i>Journal of Neuroscience</i> , 2011 , 31, 13469-84	6.6	279
694	A multicenter pilot study of subcallosal cingulate area deep brain stimulation for treatment-resistant depression. <i>Journal of Neurosurgery</i> , 2012 , 116, 315-22	3.2	277
693	Long-term hardware-related complications of deep brain stimulation. <i>Neurosurgery</i> , 2002 , 50, 1268-74; discussion 1274-6	3.2	272
692	Deep brain stimulation for Parkinson's disease: disrupting the disruption. <i>Lancet Neurology</i> , 2002 , 1, 225-31	24.1	269
691	Methods for microelectrode-guided posteroventral pallidotomy. <i>Journal of Neurosurgery</i> , 1996 , 84, 194-202	3.02	259
690	Antidepressant-like effects of medial prefrontal cortex deep brain stimulation in rats. <i>Biological Psychiatry</i> , 2010 , 67, 117-24	7.9	257

689	Long-term follow up of bilateral deep brain stimulation of the subthalamic nucleus in patients with advanced Parkinson disease. <i>Journal of Neurosurgery</i> , 2003 , 99, 489-95	3.2	257
688	Subcallosal cingulate deep brain stimulation for treatment-resistant depression: a multisite, randomised, sham-controlled trial. <i>Lancet Psychiatry</i> , 2017 , 4, 839-849	23.3	249
687	Long-term follow-up of unilateral pallidotomy in advanced Parkinson's disease. <i>New England Journal of Medicine</i> , 2000 , 342, 1708-14	59.2	239
686	Stimulation-induced inhibition of neuronal firing in human subthalamic nucleus. <i>Experimental Brain Research</i> , 2004 , 156, 274-81	2.3	238
685	Effects of apomorphine on subthalamic nucleus and globus pallidus internus neurons in patients with Parkinson's disease. <i>Journal of Neurophysiology</i> , 2001 , 86, 249-60	3.2	236
684	Synchronized neuronal discharge in the basal ganglia of parkinsonian patients is limited to oscillatory activity. <i>Journal of Neuroscience</i> , 2002 , 22, 2855-61	6.6	234
683	Neuropsychological outcome of GPi pallidotomy and GPi or STN deep brain stimulation in Parkinson's disease. <i>Brain and Cognition</i> , 2000 , 42, 324-47	2.7	229
682	Differential neuronal activity in segments of globus pallidus in Parkinson's disease patients. <i>NeuroReport</i> , 1994 , 5, 1533-7	1.7	226
681	Directional deep brain stimulation: an intraoperative double-blind pilot study. <i>Brain</i> , 2014 , 137, 2015-26	11.2	224
680	Deep brain stimulation: postoperative issues. <i>Movement Disorders</i> , 2006 , 21 Suppl 14, S219-37	7	224
679	Primary dystonia is more responsive than secondary dystonia to pallidal interventions: outcome after pallidotomy or pallidal deep brain stimulation. <i>Neurosurgery</i> , 2004 , 54, 613-19; discussion 619-21	3.2	224
678	Pallidal neuronal activity: implications for models of dystonia. <i>Annals of Neurology</i> , 2003 , 53, 480-8	9.4	223
677	Long-term follow-up of patients with thalamic deep brain stimulation for epilepsy. <i>Neurology</i> , 2006 , 66, 1571-3	6.5	222
676	Localization of clinically effective stimulating electrodes in the human subthalamic nucleus on magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2002 , 97, 1152-66	3.2	222
675	Comparative effects of unilateral and bilateral subthalamic nucleus deep brain stimulation. <i>Neurology</i> , 1999 , 53, 561-6	6.5	220
674	Multilevel anterior cervical corpectomy and fibular allograft fusion for cervical myelopathy. <i>Journal of Neurosurgery</i> , 1997 , 86, 990-7	3.2	216
673	Synuclein oligomers and clinical implications for Parkinson disease. <i>Annals of Neurology</i> , 2013 , 73, 155-69	9.4	209
672	Stimulation of the subthalamic nucleus and impulsivity: release your horses. <i>Annals of Neurology</i> , 2009 , 66, 817-24	9.4	199

671	Subcallosal cingulate deep brain stimulation for treatment-refractory anorexia nervosa: a phase 1 pilot trial. <i>Lancet, The</i> , 2013 , 381, 1361-1370	40	197
670	Long-term Hardware-related Complications of Deep Brain Stimulation. <i>Neurosurgery</i> , 2002 , 50, 1268-1276	362	196
669	Phantom sensations generated by thalamic microstimulation. <i>Nature</i> , 1998 , 391, 385-7	50.4	195
668	Tourette syndrome deep brain stimulation: a review and updated recommendations. <i>Movement Disorders</i> , 2015 , 30, 448-71	7	191
667	Gene delivery of neurturin to putamen and substantia nigra in Parkinson disease: A double-blind, randomized, controlled trial. <i>Annals of Neurology</i> , 2015 , 78, 248-57	9.4	190
666	Long-term outcome of bilateral pallidal deep brain stimulation for primary cervical dystonia. <i>Neurology</i> , 2007 , 68, 457-9	6.5	187
665	Bilateral subthalamic nucleus stimulation for Parkinson's disease: a systematic review of the clinical literature. <i>Neurosurgery</i> , 2005 , 56, 1313-21; discussion 1321-4	3.2	185
664	Globus pallidus stimulation activates the cortical motor system during alleviation of parkinsonian symptoms. <i>Nature Medicine</i> , 1997 , 3, 671-4	50.5	184
663	Bilateral globus pallidus stimulation for Huntington's disease. <i>Annals of Neurology</i> , 2004 , 56, 290-4	9.4	179
662	Effects of apomorphine on globus pallidus neurons in parkinsonian patients. <i>Annals of Neurology</i> , 1997 , 42, 767-75	9.4	174
661	Long-term follow-up of thalamic deep brain stimulation for essential and parkinsonian tremor. <i>Neurology</i> , 2003 , 61, 1601-4	6.5	174
660	A Phase II Study of Fornix Deep Brain Stimulation in Mild Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 54, 777-87	4.3	174
659	Efficacy and safety of motor cortex stimulation for chronic neuropathic pain: critical review of the literature. <i>Journal of Neurosurgery</i> , 2009 , 110, 251-6	3.2	169
658	BAG5 inhibits parkin and enhances dopaminergic neuron degeneration. <i>Neuron</i> , 2004 , 44, 931-45	13.9	166
657	Hardware-related complications of deep brain stimulation: a review of the published literature. <i>Stereotactic and Functional Neurosurgery</i> , 2006 , 84, 248-51	1.6	161
656	Identification and characterization of neurons with tremor-frequency activity in human globus pallidus. <i>Experimental Brain Research</i> , 1997 , 113, 557-63	2.3	160
655	Deep brain stimulation for Parkinson's disease dissociates mood and motor circuits: a functional MRI case study. <i>Movement Disorders</i> , 2003 , 18, 1508-16	7	160
654	Human anterior cingulate cortex neurons encode cognitive and emotional demands. <i>Journal of Neuroscience</i> , 2005 , 25, 8402-6	6.6	157

653	Highly cited works in neurosurgery. Part I: the 100 top-cited papers in neurosurgical journals. <i>Journal of Neurosurgery</i> , 2010 , 112, 223-32	3.2	153
652	Safety/feasibility of targeting the substantia nigra with AAV2-neurturin in Parkinson patients. <i>Neurology</i> , 2013 , 80, 1698-701	6.5	152
651	Deep brain stimulation for chronic neuropathic pain: long-term outcome and the incidence of insertional effect. <i>Pain</i> , 2006 , 125, 188-96	8	147
650	The fragile X premutation presenting as essential tremor. <i>Archives of Neurology</i> , 2003 , 60, 117-21		145
649	Neuropsychological consequences of posteroventral pallidotomy for the treatment of Parkinson's disease. <i>Neurology</i> , 1998 , 51, 207-15	6.5	142
648	Lidocaine and muscimol microinjections in subthalamic nucleus reverse Parkinsonian symptoms. <i>Brain</i> , 2001 , 124, 2105-18	11.2	141
647	Deep brain stimulation: a novel strategy for treating Alzheimer's disease. <i>Innovations in Clinical Neuroscience</i> , 2012 , 9, 10-7	1	141
646	The regulation of adult rodent hippocampal neurogenesis by deep brain stimulation. <i>Journal of Neurosurgery</i> , 2008 , 108, 132-8	3.2	140
645	Direct visualization of deep brain stimulation targets in Parkinson disease with the use of 7-tesla magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2010 , 113, 639-47	3.2	138
644	Neurophysiological effects of stimulation through electrodes in the human subthalamic nucleus. <i>Brain</i> , 1999 , 122 (Pt 10), 1919-31	11.2	138
643	Determining the position and size of the subthalamic nucleus based on magnetic resonance imaging results in patients with advanced Parkinson disease. <i>Journal of Neurosurgery</i> , 2004 , 100, 541-6	3.2	133
642	Thalamic stimulation and functional magnetic resonance imaging: localization of cortical and subcortical activation with implanted electrodes. Technical note. <i>Journal of Neurosurgery</i> , 1999 , 90, 583-90	3.2	133
641	Milestones in Parkinson's disease therapeutics. <i>Movement Disorders</i> , 2011 , 26, 1072-82	7	132
640	Deep brain stimulation of the subcallosal cingulate gyrus for depression: anatomical location of active contacts in clinical responders and a suggested guideline for targeting. <i>Journal of Neurosurgery</i> , 2009 , 111, 1209-15	3.2	130
639	Human anterior cingulate cortex neurons modulated by attention-demanding tasks. <i>Journal of Neurophysiology</i> , 2000 , 83, 3575-7	3.2	126
638	Bilateral anterior thalamic nucleus lesions and high-frequency stimulation are protective against pilocarpine-induced seizures and status epilepticus. <i>Neurosurgery</i> , 2004 , 54, 191-5; discussion 195-7	3.2	123
637	Familial intracranial aneurysms. <i>Journal of Neurosurgery</i> , 1987 , 66, 522-8	3.2	123
636	Efficacy and Safety of Deep Brain Stimulation in Tourette Syndrome: The International Tourette Syndrome Deep Brain Stimulation Public Database and Registry. <i>JAMA Neurology</i> , 2018 , 75, 353-359	17.2	122

635	Relationship of lesion location to clinical outcome following microelectrode-guided pallidotomy for Parkinson's disease. <i>Brain</i> , 1999 , 122 (Pt 3), 405-16	11.2	122
634	Deep Brain Stimulation Influences Brain Structure in Alzheimer's Disease. <i>Brain Stimulation</i> , 2015 , 8, 645-54	5.1	120
633	Functional convergence of developmentally and adult-generated granule cells in dentate gyrus circuits supporting hippocampus-dependent memory. <i>Hippocampus</i> , 2011 , 21, 1348-62	3.5	119
632	Physiology of freezing of gait. <i>Annals of Neurology</i> , 2016 , 80, 644-659	9.4	118
631	Increased cerebral metabolism after 1 year of deep brain stimulation in Alzheimer disease. <i>Archives of Neurology</i> , 2012 , 69, 1141-8		118
630	Effects of different stimulation parameters on the antidepressant-like response of medial prefrontal cortex deep brain stimulation in rats. <i>Journal of Psychiatric Research</i> , 2010 , 44, 683-7	5.2	115
629	Deep brain stimulation for treatment-refractory obsessive-compulsive disorder: the search for a valid target. <i>Neurosurgery</i> , 2007 , 61, 1-11; discussion 11-3	3.2	115
628	Effects of subthalamic nucleus stimulation on motor cortex excitability in Parkinson's disease. <i>Neurology</i> , 2002 , 58, 1665-72	6.5	115
627	Long-term effects of pallidal or subthalamic deep brain stimulation on quality of life in Parkinson's disease. <i>Movement Disorders</i> , 2009 , 24, 1154-61	7	114
626	Potentials recorded at the scalp by stimulation near the human subthalamic nucleus. <i>Clinical Neurophysiology</i> , 2001 , 112, 431-7	4.3	112
625	Neuropsychological impact of Cg25 deep brain stimulation for treatment-resistant depression: preliminary results over 12 months. <i>Journal of Nervous and Mental Disease</i> , 2008 , 196, 405-10	1.8	111
624	Neuronal firing rates and patterns in the globus pallidus internus of patients with cervical dystonia differ from those with Parkinson's disease. <i>Journal of Neurophysiology</i> , 2007 , 98, 720-9	3.2	109
623	Networks mediating the clinical effects of pallidal brain stimulation for Parkinson's disease: a PET study of resting-state glucose metabolism. <i>Brain</i> , 2001 , 124, 1601-9	11.2	109
622	Advances in neurostimulation for movement disorders. <i>Neurological Research</i> , 2000 , 22, 247-58	2.7	108
621	Tractography-Based Ventral Intermediate Nucleus Targeting: Novel Methodology and Intraoperative Validation. <i>Movement Disorders</i> , 2016 , 31, 1217-25	7	108
620	Thalamic relay site for cold perception in humans. <i>Journal of Neurophysiology</i> , 1999 , 81, 1970-3	3.2	107
619	Movement-related neurons of the subthalamic nucleus in patients with Parkinson disease. <i>Journal of Neurosurgery</i> , 2002 , 97, 1167-72	3.2	106
618	A comparison of the burst activity of lateral thalamic neurons in chronic pain and non-pain patients. <i>Pain</i> , 1999 , 80, 567-575	8	106

617	Consensus on guidelines for stereotactic neurosurgery for psychiatric disorders. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014 , 85, 1003-8	5.5	105
616	Eight-hours adaptive deep brain stimulation in patients with Parkinson disease. <i>Neurology</i> , 2018 , 90, e971-e976	6.5	102
615	Increased gamma oscillatory activity in the subthalamic nucleus during tremor in Parkinson's disease patients. <i>Journal of Neurophysiology</i> , 2009 , 101, 789-802	3.2	102
614	Exclusion of mutations in the gene for type III collagen (COL3A1) as a common cause of intracranial aneurysms or cervical artery dissections: results from sequence analysis of the coding sequences of type III collagen from 55 unrelated patients. <i>Neurology</i> , 1993 , 43, 2652-8	6.5	102
613	Programming Deep Brain Stimulation for Parkinson's Disease: The Toronto Western Hospital Algorithms. <i>Brain Stimulation</i> , 2016 , 9, 425-437	5.1	100
612	The nature and time course of cortical activation following subthalamic stimulation in Parkinson's disease. <i>Cerebral Cortex</i> , 2010 , 20, 1926-36	5.1	100
611	Pedunculopontine nucleus deep brain stimulation in Parkinson's disease: A clinical review. <i>Movement Disorders</i> , 2018 , 33, 10-20	7	98
610	Ubiquitinylation of Eynuclein by carboxyl terminus Hsp70-interacting protein (CHIP) is regulated by Bcl-2-associated athanogene 5 (BAG5). <i>PLoS ONE</i> , 2011 , 6, e14695	3.7	98
609	Deep brain stimulation of the anterior nucleus of the thalamus: effects of electrical stimulation on pilocarpine-induced seizures and status epilepticus. <i>Epilepsy Research</i> , 2008 , 78, 117-23	3	98
608	Cortical activation with deep brain stimulation of the anterior thalamus for epilepsy. <i>Clinical Neurophysiology</i> , 2006 , 117, 192-207	4.3	96
607	Functional correlates of pallidal stimulation for Parkinson's disease. <i>Annals of Neurology</i> , 2001 , 49, 155-64	6.4	96
606	Incidence of silent hemorrhage and delayed deterioration after stereotactic brain biopsy. <i>Journal of Neurosurgery</i> , 1998 , 89, 31-5	3.2	96
605	A unified connectomic target for deep brain stimulation in obsessive-compulsive disorder. <i>Nature Communications</i> , 2020 , 11, 3364	17.4	95
604	Neurogenic hippocampal targets of deep brain stimulation. <i>Journal of Comparative Neurology</i> , 2011 , 519, 6-20	3.4	93
603	Surgery of the motor thalamus: problems with the present nomenclatures. <i>Movement Disorders</i> , 2002 , 17 Suppl 3, S2-8	7	93
602	Low-intensity ultrasound neuromodulation: An overview of mechanisms and emerging human applications. <i>Brain Stimulation</i> , 2018 , 11, 1209-1217	5.1	92
601	Short- and long-term outcome of chronic pallidal neurostimulation in monogenic isolated dystonia. <i>Neurology</i> , 2015 , 84, 895-903	6.5	92
600	Selective enhancement of rapid eye movement sleep by deep brain stimulation of the human pons. <i>Annals of Neurology</i> , 2009 , 66, 110-4	9.4	91

- 599 Involvement of human thalamus in the preparation of self-paced movement. *Brain*, **2004**, 127, 2717-31 11.2 91
- 598 Pallidotomy for parkinson disease: a review of contemporary literature. *Journal of Neurosurgery*, **2001**, 94, 43-9 3.2 91
- 597 An investigation of the effects of subthalamic nucleus stimulation on acoustic measures of voice. *Movement Disorders*, **2000**, 15, 1132-8 7 91
- 596 Deep brain stimulation of the subcallosal cingulate for treatment-refractory anorexia nervosa: 1 year follow-up of an open-label trial. *Lancet Psychiatry*, **2017**, 4, 285-294 23.3 90
- 595 Pedunculopontine nucleus microelectrode recordings in movement disorder patients. *Experimental Brain Research*, **2008**, 188, 165-74 2.3 90
- 594 Levodopa enhances synaptic plasticity in the substantia nigra pars reticulata of Parkinson's disease patients. *Brain*, **2009**, 132, 309-18 11.2 89
- 593 Cerebral blood flow changes induced by pedunculopontine nucleus stimulation in patients with advanced Parkinson's disease: a [(15)O] H₂O PET study. *Human Brain Mapping*, **2009**, 30, 3901-9 5.9 88
- 592 Depth electrode recorded cerebral responses with deep brain stimulation of the anterior thalamus for epilepsy. *Clinical Neurophysiology*, **2006**, 117, 1602-9 4.3 88
- 591 Levodopa response in long-term bilateral subthalamic stimulation for Parkinson's disease. *Movement Disorders*, **2007**, 22, 990-7 7 87
- 590 Technology of deep brain stimulation: current status and future directions. *Nature Reviews Neurology*, **2021**, 17, 75-87 15 87
- 589 Memory rescue and enhanced neurogenesis following electrical stimulation of the anterior thalamus in rats treated with corticosterone. *Experimental Neurology*, **2011**, 232, 100-4 5.7 86
- 588 Activation of the anterior cingulate cortex by thalamic stimulation in patients with chronic pain: a positron emission tomography study. *Journal of Neurosurgery*, **2000**, 92, 64-9 3.2 86
- 587 Vim thalamic stimulation for tremor. *Archives of Medical Research*, **2000**, 31, 266-9 6.6 85
- 586 Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. *Brain*, **2018**, 141, 3405-3414 11.2 84
- 585 A prospective trial of magnetic resonance-guided focused ultrasound thalamotomy for essential tremor: Results at the 2-year follow-up. *Annals of Neurology*, **2018**, 83, 107-114 9.4 83
- 584 Systematic review of hardware-related complications of Deep Brain Stimulation: Do new indications pose an increased risk?. *Brain Stimulation*, **2017**, 10, 967-976 5.1 83
- 583 A brief history of pallidotomy. *Neurosurgery*, **1997**, 41, 1169-80; discussion 1180-3 3.2 83
- 582 Altered pain and temperature perception following cingulotomy and capsulotomy in a patient with schizoaffective disorder. *Pain*, **1994**, 59, 189-199 8 83

581	Deep brain stimulation of the globus pallidus pars interna in advanced Parkinson's disease. <i>Neurology</i> , 2000 , 55, S34-9	6.5	81
580	Treatment resistant depression as a failure of brain homeostatic mechanisms: implications for deep brain stimulation. <i>Experimental Neurology</i> , 2009 , 219, 44-52	5.7	80
579	Characterization of REM-sleep associated ponto-geniculo-occipital waves in the human pons. <i>Sleep</i> , 2007 , 30, 823-7	1.1	80
578	Bilateral globus pallidus internus deep brain stimulation in tardive dyskinesia: a case report. <i>Movement Disorders</i> , 2004 , 19, 969-72	7	80
577	Tremor arrest with thalamic microinjections of muscimol in patients with essential tremor. <i>Annals of Neurology</i> , 1999 , 46, 249-52	9.4	80
576	Bilateral pallidal stimulation in cervical dystonia: blinded evidence of benefit beyond 5 years. <i>Brain</i> , 2013 , 136, 761-9	11.2	79
575	Differences in neuronal firing rates in pallidal and cerebellar receiving areas of thalamus in patients with Parkinson's disease, essential tremor, and pain. <i>Journal of Neurophysiology</i> , 2005 , 93, 3094-101	3.2	79
574	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. <i>Brain</i> , 2000 , 123 (Pt 4), 746-58	11.2	79
573	Effects of internal globus pallidus stimulation on motor cortex excitability. <i>Neurology</i> , 2001 , 56, 716-23	6.5	78
572	Comparison of three methods of targeting the subthalamic nucleus for chronic stimulation in Parkinson's disease. <i>Operative Neurosurgery</i> , 2005 , 56, 360-8; discussion 360-8	1.6	77
571	Longevity of batteries in internal pulse generators used for deep brain stimulation. <i>Stereotactic and Functional Neurosurgery</i> , 2003 , 80, 56-60	1.6	75
570	Deep brain stimulation for Parkinson's disease and other movement disorders. <i>Current Opinion in Neurology</i> , 2013 , 26, 374-80	7.1	74
569	Academic impact and rankings of American and Canadian neurosurgical departments as assessed using the h index. <i>Journal of Neurosurgery</i> , 2010 , 113, 447-57	3.2	74
568	New developments in understanding the etiology of Parkinson's disease and in its treatment. <i>Current Opinion in Neurobiology</i> , 1998 , 8, 783-90	7.6	74
567	Unilateral subdural motor cortex stimulation improves essential tremor but not Parkinson's disease. <i>Brain</i> , 2011 , 134, 2096-105	11.2	73
566	Oscillatory activity in the globus pallidus internus: comparison between Parkinson's disease and dystonia. <i>Clinical Neurophysiology</i> , 2012 , 123, 358-68	4.3	72
565	Deep brain stimulation for the treatment of Alzheimer disease and dementias. <i>World Neurosurgery</i> , 2013 , 80, S28.e1-8	2.1	71
564	Inhibition of voluntary activity by thalamic stimulation in humans: relevance for the control of tremor. <i>Movement Disorders</i> , 1997 , 12, 727-37	7	71

563	Current and future directions of deep brain stimulation for neurological and psychiatric disorders. <i>Journal of Neurosurgery</i> , 2019 , 131, 333-342	3.2	71
562	Neuronal recordings in Parkinson's disease patients with dyskinesias induced by apomorphine. <i>Annals of Neurology</i> , 2000 , 47, S141-6	9.4	71
561	Correspondence of microelectrode mapping with magnetic resonance imaging for subthalamic nucleus procedures. <i>World Neurosurgery</i> , 2005 , 63, 249-53; discussion 253		70
560	Intracranial volume conduction of cortical spikes and sleep potentials recorded with deep brain stimulating electrodes. <i>Clinical Neurophysiology</i> , 2003 , 114, 1403-18	4.3	70
559	Surgical treatment of myoclonus dystonia syndrome. <i>Movement Disorders</i> , 2013 , 28, 282-7	7	69
558	Stimulation of the subthalamic nucleus in Parkinson's disease does not produce striatal dopamine release. <i>Neurosurgery</i> , 2003 , 53, 1095-102; discussion 1102-5	3.2	69
557	Pallidal stimulation in Parkinson's disease patients with a prior unilateral pallidotomy. <i>Canadian Journal of Neurological Sciences</i> , 1998 , 25, 300-5	1	69
556	Outcomes from stereotactic surgery for essential tremor. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019 , 90, 474-482	5.5	69
555	Thalamotomy for essential and cerebellar tremor. <i>Stereotactic and Functional Neurosurgery</i> , 1995 , 65, 11-7	1.6	67
554	Deep brain stimulation and thalamotomy for tremor compared. <i>Acta Neurochirurgica Supplementum</i> , 1997 , 68, 49-53	1.7	67
553	Anterior Nucleus Deep Brain Stimulation for Refractory Epilepsy: Insights Into Patterns of Seizure Control and Efficacious Target. <i>Neurosurgery</i> , 2016 , 78, 802-11	3.2	67
552	Targeting the basal ganglia for deep brain stimulation in Parkinson's disease. <i>Neurology</i> , 2000 , 55, S21-86.5		67
551	Electrical stimulation of the inferior thalamic peduncle in the treatment of major depression and obsessive compulsive disorders. <i>World Neurosurgery</i> , 2013 , 80, S30.e17-25	2.1	66
550	Mesial temporal inhibition in a patient with deep brain stimulation of the anterior thalamus for epilepsy. <i>Epilepsia</i> , 2006 , 47, 1958-62	6.4	66
549	Firing rates of pallidal neurons are similar in Huntington's and Parkinson's disease patients. <i>Experimental Brain Research</i> , 2005 , 166, 230-6	2.3	66
548	Involvement of the human pedunculopontine nucleus region in voluntary movements. <i>Neurology</i> , 2010 , 75, 950-9	6.5	64
547	Brain stimulation methods to treat tobacco addiction. <i>Brain Stimulation</i> , 2013 , 6, 221-30	5.1	63
546	Deep brain stimulation for movement disorders: 2015 and beyond. <i>Current Opinion in Neurology</i> , 2015 , 28, 423-36	7.1	63

545	Anterior thalamus deep brain stimulation at high current impairs memory in rats. <i>Experimental Neurology</i> , 2010 , 225, 154-62	5.7	62
544	Cellular, molecular, and clinical mechanisms of action of deep brain stimulation-a systematic review on established indications and outlook on future developments. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	61
543	Highly cited works in neurosurgery. Part II: the citation classics. <i>Journal of Neurosurgery</i> , 2010 , 112, 233-46	3.2	61
542	Pallidal deep brain stimulation in cervical dystonia: clinical outcome in four cases. <i>Canadian Journal of Neurological Sciences</i> , 2004 , 31, 328-32	1	61
541	Disease modification and biomarker development in Parkinson disease: Revision or reconstruction?. <i>Neurology</i> , 2020 , 94, 481-494	6.5	60
540	The pedunculo pontine nucleus as a target for deep brain stimulation. <i>Journal of Neural Transmission</i> , 2011 , 118, 1461-8	4.3	60
539	Anesthesia for functional neurosurgery: review of complications. <i>Journal of Neurosurgical Anesthesiology</i> , 2006 , 18, 64-7	3	60
538	EEG power asymmetry and functional connectivity as a marker of treatment effectiveness in DBS surgery for depression. <i>Neuropsychopharmacology</i> , 2014 , 39, 1270-81	8.7	59
537	Pallidal stimulation in cervical dystonia: clinical implications of acute changes in stimulation parameters. <i>European Journal of Neurology</i> , 2009 , 16, 506-12	6	59
536	Deep brain stimulation surgery for Parkinson's disease: mechanisms and consequences. <i>Parkinsonism and Related Disorders</i> , 2004 , 10 Suppl 1, S49-57	3.6	59
535	Microsurgical C-2 ganglionectomy for chronic intractable occipital pain. <i>Journal of Neurosurgery</i> , 1998 , 89, 359-65	3.2	59
534	Changes in motor cortex excitability with stimulation of anterior thalamus in epilepsy. <i>Neurology</i> , 2006 , 66, 566-71	6.5	58
533	Type III intermittency in human partial epilepsy. <i>European Journal of Neuroscience</i> , 1999 , 11, 2571-6	3.5	57
532	Enhanced synchronization of thalamic theta band local field potentials in patients with essential tremor. <i>Experimental Neurology</i> , 2009 , 217, 171-6	5.7	56
531	Thalamic deep brain stimulation activates the cerebellothalamocortical pathway. <i>Neurology</i> , 2004 , 63, 907-9	6.5	56
530	Speech and language adverse effects after thalamotomy and deep brain stimulation in patients with movement disorders: A meta-analysis. <i>Movement Disorders</i> , 2017 , 32, 53-63	7	55
529	Neuromodulation in epilepsy. <i>Neurosurgery</i> , 2011 , 69, 957-79; discussion 979	3.2	55
528	Deep brain stimulation of the ventral intermediate nucleus of the thalamus for tremor in patients with multiple sclerosis. <i>Neurosurgery</i> , 2010 , 67, 646-51; discussion 651	3.2	55

527	Deep brain stimulation: current and future perspectives. <i>Neurosurgical Focus</i> , 2009 , 27, E2	4.2	55
526	Rapid Modulation of Protein Expression in the Rat Hippocampus Following Deep Brain Stimulation of the Fornix. <i>Brain Stimulation</i> , 2015 , 8, 1058-64	5.1	54
525	Phospholipid biosynthetic enzymes in human brain. <i>Lipids</i> , 1997 , 32, 351-8	1.6	54
524	Involvement of the basal ganglia and cerebellar motor pathways in the preparation of self-initiated and externally triggered movements in humans. <i>Journal of Neuroscience</i> , 2007 , 27, 6029-36	6.6	54
523	Stop-related subthalamic beta activity indexes global motor suppression in Parkinson's disease. <i>Movement Disorders</i> , 2016 , 31, 1846-1853	7	53
522	The Spectrum of Altmetrics in Neurosurgery: The Top 100 "Trending" Articles in Neurosurgical Journals. <i>World Neurosurgery</i> , 2017 , 103, 883-895.e1	2.1	52
521	Neuronal inhibition and synaptic plasticity of basal ganglia neurons in Parkinson's disease. <i>Brain</i> , 2018 , 141, 177-190	11.2	52
520	The most cited works in epilepsy: Trends in the "Citation Classics". <i>Epilepsia</i> , 2012 , 53, 765-70	6.4	52
519	Deep brain stimulation state of the art and novel stimulation targets. <i>Progress in Brain Research</i> , 2010 , 184, 311-24	2.9	52
518	Subthalamic nucleus stimulation modulates afferent inhibition in Parkinson disease. <i>Neurology</i> , 2007 , 68, 356-63	6.5	52
517	Eye movement-related responses of neurons in human subthalamic nucleus. <i>Experimental Brain Research</i> , 2005 , 162, 357-65	2.3	52
516	The rise of robots in surgical environments during COVID-19. <i>Nature Machine Intelligence</i> , 2020 , 2, 566-572	2.5	52
515	MRI-guided focused ultrasound thalamotomy in non-ET tremor syndromes. <i>Neurology</i> , 2017 , 89, 771-775	5.5	51
514	Bilateral subthalamic stimulation in Parkin and PINK1 parkinsonism. <i>Neurology</i> , 2008 , 70, 1186-91	6.5	51
513	Deep brain stimulation for Parkinson's disease: meta-analysis of results of randomized trials at varying lengths of follow-up. <i>Journal of Neurosurgery</i> , 2018 , 128, 1199-1213	3.2	50
512	Programming Deep Brain Stimulation for Tremor and Dystonia: The Toronto Western Hospital Algorithms. <i>Brain Stimulation</i> , 2016 , 9, 438-452	5.1	50
511	Bilateral deep brain stimulation of the fornix for Alzheimer's disease: surgical safety in the ADvance trial. <i>Journal of Neurosurgery</i> , 2016 , 125, 75-84	3.2	50
510	The motor thalamus in neurosurgery. <i>Neurosurgery</i> , 2006 , 58, 146-58; discussion 146-58	3.2	50

509	Involvement of the human subthalamic nucleus in movement preparation. <i>Neurology</i> , 2003 , 61, 1538-45	6.5	50
508	Neural stimulation successfully treats depression in patients with prior ablative cingulotomy. <i>American Journal of Psychiatry</i> , 2008 , 165, 687-93	11.9	49
507	Subthalamic nucleus stimulation: improvements in outcome with reprogramming. <i>Archives of Neurology</i> , 2006 , 63, 1266-72		49
506	Very fast oscillations evoked by median nerve stimulation in the human thalamus and subthalamic nucleus. <i>Journal of Neurophysiology</i> , 2004 , 92, 3171-82	3.2	49
505	Cingulotomy for psychiatric disease: microelectrode guidance, a callosal reference system for documenting lesion location, and clinical results. <i>Neurosurgery</i> , 2004 , 54, 622-28; discussion 628-30	3.2	49
504	Image-based analysis and long-term clinical outcomes of deep brain stimulation for Tourette syndrome: a multisite study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019 , 90, 1078-1090	5.5	48
503	Subthalamic deep brain stimulation at individualized frequencies for Parkinson disease. <i>Neurology</i> , 2012 , 78, 1930-8	6.5	48
502	L-dopa-induced dyskinesia and stereotactic surgery for Parkinson's disease. <i>Neurosurgery</i> , 2008 , 62, 311-23; discussion 323-5	3.2	48
501	rCBF changes associated with PPN stimulation in a patient with Parkinson's disease: a PET study. <i>Movement Disorders</i> , 2008 , 23, 1051-1054	7	48
500	Cortical Plasticity Induction by Pairing Subthalamic Nucleus Deep-Brain Stimulation and Primary Motor Cortical Transcranial Magnetic Stimulation in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2016 , 36, 396-404	6.6	47
499	High-frequency microstimulation in human globus pallidus and substantia nigra. <i>Experimental Brain Research</i> , 2010 , 205, 251-61	2.3	47
498	The pedunculopontine nucleus and movement disorders: anatomy and the role for deep brain stimulation. <i>Parkinsonism and Related Disorders</i> , 2007 , 13 Suppl 3, S276-80	3.6	47
497	Tremor cells in the human thalamus: differences among neurological disorders. <i>Journal of Neurosurgery</i> , 2004 , 101, 43-7	3.2	47
496	The Current Use of Social Media in Neurosurgery. <i>World Neurosurgery</i> , 2016 , 88, 619-624.e7	2.1	46
495	Physiological mechanisms of thalamic ventral intermediate nucleus stimulation for tremor suppression. <i>Brain</i> , 2018 , 141, 2142-2155	11.2	45
494	Neurostimulation for chronic noncancer pain: an evaluation of the clinical evidence and recommendations for future trial designs. <i>Journal of Neurosurgery</i> , 2006 , 105, 175-89	3.2	45
493	The dopaminergic nigrostriatal system and Parkinson's disease: molecular events in development, disease, and cell death, and new therapeutic strategies. <i>Neurosurgery</i> , 2007 , 60, 17-28; discussion 28-30	3.2	45
492	YouTube as a Source of Information on Neurosurgery. <i>World Neurosurgery</i> , 2017 , 105, 394-398	2.1	44

491	Single pulse stimulation of the human subthalamic nucleus facilitates the motor cortex at short intervals. <i>Journal of Neurophysiology</i> , 2004 , 92, 1937-43	3.2	44
490	Deep brain stimulation in the treatment of dyskinesia and dystonia. <i>Neurosurgical Focus</i> , 2004 , 17, E2	4.2	44
489	Cerebral Aneurysms and Polycystic Kidney Disease: A Critical Review. <i>Canadian Journal of Neurological Sciences</i> , 1992 , 19, 222-227	1	44
488	The International Deep Brain Stimulation Registry and Database for Gilles de la Tourette Syndrome: How Does It Work?. <i>Frontiers in Neuroscience</i> , 2016 , 10, 170	5.1	44
487	Long-term double-blinded unilateral pedunculopontine area stimulation in Parkinson's disease. <i>Movement Disorders</i> , 2016 , 31, 1570-1574	7	44
486	Intracranial applications of magnetic resonance-guided focused ultrasound. <i>Neurotherapeutics</i> , 2014 , 11, 593-605	6.4	43
485	The most cited works in Parkinson's disease. <i>Movement Disorders</i> , 2011 , 26, 380-90	7	43
484	Current and future indications for deep brain stimulation in pediatric populations. <i>Neurosurgical Focus</i> , 2010 , 29, E2	4.2	43
483	How does DBS work?. <i>Supplements To Clinical Neurophysiology</i> , 2004 , 57, 733-6		43
482	Subthalamic nucleus deep brain stimulation for parkinson's disease after successful pallidotomy: clinical and electrophysiological observations. <i>Movement Disorders</i> , 2004 , 19, 1209-14	7	43
481	Absence of collagen deficiency in familial cerebral aneurysms. <i>Journal of Neurosurgery</i> , 1989 , 70, 837-40	3.2	43
480	Deep brain stimulation for pediatric dystonia: a meta-analysis with individual participant data. <i>Developmental Medicine and Child Neurology</i> , 2019 , 61, 49-56	3.3	43
479	Deep Brain Stimulation Targeting the Fornix for Mild Alzheimer Dementia (the ADvance Trial): A Two Year Follow-up Including Results of Delayed Activation. <i>Journal of Alzheimer's Disease</i> , 2018 , 64, 597-606	4.3	42
478	Neuropsychological and behavioral changes and weight gain after medial pallidotomy. <i>Annals of Neurology</i> , 1997 , 41, 834-6	9.4	42
477	Somatosensory evoked potentials (SEPs) recorded from deep brain stimulation (DBS) electrodes in the thalamus and subthalamic nucleus (STN). <i>Clinical Neurophysiology</i> , 2004 , 115, 424-34	4.3	42
476	Deep brain stimulation for Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2001 , 7, 199-203	3.6	42
475	Deep brain stimulator electrodes used for lesioning: proof of principle. <i>Neurosurgery</i> , 2001 , 49, 363-7; discussion 367-9	3.2	42
474	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Techniques, Side Effects, and Postoperative Imaging. <i>Stereotactic and Functional Neurosurgery</i> , 2016 , 94, 307-319	1.6	41

473	Peripeduncular and pedunculopontine nuclei: a dispute on a clinically relevant target. <i>NeuroReport</i> , 2007 , 18, 1407-8	1.7	41
472	Changes in cortical and pallidal oscillatory activity during the execution of a sensory trick in patients with cervical dystonia. <i>Experimental Neurology</i> , 2007 , 204, 845-8	5.7	41
471	Activation of electrocorticographic activity with remifentanyl and alfentanil during neurosurgical excision of epileptogenic focus. <i>British Journal of Anaesthesia</i> , 2003 , 91, 651-5	5.4	41
470	Psychiatric symptoms in patients with Parkinson disease presenting for deep brain stimulation surgery. <i>Journal of Neurosurgery</i> , 2005 , 103, 246-51	3.2	41
469	Neuronal coding of implicit emotion categories in the subcallosal cortex in patients with depression. <i>Biological Psychiatry</i> , 2013 , 74, 714-9	7.9	40
468	Frequency-dependent effects of electrical stimulation in the globus pallidus of dystonia patients. <i>Journal of Neurophysiology</i> , 2012 , 108, 5-17	3.2	40
467	Galanin expression in adult human dorsal root ganglion neurons: initial observations. <i>Neuroscience</i> , 2003 , 117, 795-809	3.9	40
466	Pallidotomy for Parkinson's Disease. <i>Neurosurgery Clinics of North America</i> , 1998 , 9, 325-336	4	40
465	Microelectrode recordings in the pallidum. <i>Movement Disorders</i> , 2002 , 17 Suppl 3, S150-4	7	39
464	Syringomyelic dystonia and athetosis. <i>Movement Disorders</i> , 1999 , 14, 684-8	7	39
463	On the focal nature of inhibition and facilitation in the human motor cortex. <i>Clinical Neurophysiology</i> , 1999 , 110, 550-5	4.3	39
462	The Most Cited Works in Aneurysmal Subarachnoid Hemorrhage: A Bibliometric Analysis of the 100 Most Cited Articles. <i>World Neurosurgery</i> , 2016 , 89, 587-592.e6	2.1	37
461	Microelectrode recording findings within the tractography-defined ventral intermediate nucleus. <i>Journal of Neurosurgery</i> , 2017 , 126, 1669-1675	3.2	37
460	Physiology and pathophysiology of Parkinson's disease. <i>Annals of the New York Academy of Sciences</i> , 2003 , 991, 15-21	6.5	37
459	Changes in cortical excitability with thalamic deep brain stimulation. <i>Neurology</i> , 2005 , 64, 1913-9	6.5	37
458	Stereotactic management of bacterial brain abscesses. <i>Canadian Journal of Neurological Sciences</i> , 1996 , 23, 34-9	1	37
457	The changing landscape of surgery for Parkinson's Disease. <i>Movement Disorders</i> , 2018 , 33, 36-47	7	37
456	Social media in epilepsy: A quantitative and qualitative analysis. <i>Epilepsy and Behavior</i> , 2017 , 71, 79-84	3.2	36

455	Pallidal deep brain stimulation modulates cortical excitability and plasticity. <i>Annals of Neurology</i> , 2018 , 83, 352-362	9.4	36
454	Targeting of the Subthalamic Nucleus for Deep Brain Stimulation: A Survey Among Parkinson Disease Specialists. <i>World Neurosurgery</i> , 2017 , 99, 41-46	2.1	36
453	Criteria for the ethical conduct of psychiatric neurosurgery clinical trials. <i>Neurosurgical Focus</i> , 2010 , 29, E9	4.2	36
452	Apomorphine reduces subthalamic neuronal entropy in parkinsonian patients. <i>Experimental Neurology</i> , 2010 , 225, 455-8	5.7	36
451	Bursting activity of neurons in the human anterior thalamic nucleus. <i>Brain Research</i> , 2006 , 1115, 1-8	3.7	36
450	Motor cortical stimulation for parkinsonism in multiple system atrophy. <i>Archives of Neurology</i> , 2003 , 60, 1554-8		36
449	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. <i>Journal of Neurosurgery</i> , 2019 , 132, 1785-1791	3.2	36
448	Chronic deep brain stimulation in an Alzheimer's disease mouse model enhances memory and reduces pathological hallmarks. <i>Brain Stimulation</i> , 2018 , 11, 435-444	5.1	36
447	Deep brain stimulation for the treatment of epilepsy. <i>International Journal of Neural Systems</i> , 2009 , 19, 213-26	6.2	35
446	Effects of subthalamic nucleus stimulation on motor cortex plasticity in Parkinson disease. <i>Neurology</i> , 2015 , 85, 425-32	6.5	34
445	Neurocircuitry of limbic dysfunction in anorexia nervosa. <i>Cortex</i> , 2015 , 62, 109-18	3.8	34
444	Deep brain stimulation for stroke: Current uses and future directions. <i>Brain Stimulation</i> , 2018 , 11, 3-28	5.1	34
443	Social Media Metrics and Bibliometric Profiles of Neurosurgical Departments and Journals: Is There a Relationship?. <i>World Neurosurgery</i> , 2016 , 90, 574-579.e7	2.1	34
442	Beta oscillatory neurons in the motor thalamus of movement disorder and pain patients. <i>Experimental Neurology</i> , 2014 , 261, 782-90	5.7	34
441	Where are we with surgical therapies for Parkinson's disease?. <i>Parkinsonism and Related Disorders</i> , 2014 , 20 Suppl 1, S187-91	3.6	34
440	Rhythmic cortical EEG synchronization with low frequency stimulation of the anterior and medial thalamus for epilepsy. <i>Clinical Neurophysiology</i> , 2006 , 117, 2272-8	4.3	34
439	Variability in lesion location after microelectrode-guided pallidotomy for Parkinson's disease: anatomical, physiological, and technical factors that determine lesion distribution. <i>Journal of Neurosurgery</i> , 1999 , 90, 468-77	3.2	34
438	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Anatomy and Terminology. <i>Stereotactic and Functional Neurosurgery</i> , 2016 , 94, 298-306	1.6	33

437	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. <i>Radiology</i> , 2019 , 293, 174-183	20.5	33
436	Effects of acute stimulation through contacts placed on the motor cortex for chronic stimulation. <i>Clinical Neurophysiology</i> , 2002 , 113, 635-41	4.3	33
435	Low-frequency Subthalamic Stimulation in Parkinson's Disease: Long-term Outcome and Predictors. <i>Brain Stimulation</i> , 2016 , 9, 774-779	5.1	33
434	Three-year follow-up of prospective trial of focused ultrasound thalamotomy for essential tremor. <i>Neurology</i> , 2019 , 93, e2284-e2293	6.5	33
433	Deep brain stimulation of the ventromedial prefrontal cortex causes reorganization of neuronal processes and vasculature. <i>NeuroImage</i> , 2016 , 125, 422-427	7.9	32
432	Spatial extent of oscillatory activity in and between the subthalamic nucleus and substantia nigra pars reticulata of Parkinson's disease patients. <i>Experimental Neurology</i> , 2013 , 245, 60-71	5.7	32
431	Long-term subthalamic nucleus stimulation improves sensorimotor integration and proprioception. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013 , 84, 1020-8	5.5	32
430	Deep brain stimulation emerging indications. <i>Progress in Brain Research</i> , 2011 , 194, 83-95	2.9	32
429	Bilateral pallidal stimulation for x-linked dystonia parkinsonism. <i>Archives of Neurology</i> , 2010 , 67, 1012-5		32
428	Deep brain stimulation for parkinsonian gait disorders. <i>Journal of Neurology</i> , 2008 , 255 Suppl 4, 30-1	5.5	32
427	Spontaneous remission of primary central nervous system lymphoma: report of 3 cases and discussion of pathophysiology. <i>Journal of Neuro-Oncology</i> , 1999 , 42, 151-9	4.8	32
426	Short and long term outcome of bilateral pallidal stimulation in chorea-acanthocytosis. <i>PLoS ONE</i> , 2013 , 8, e79241	3.7	32
425	Clinical trials for deep brain stimulation: Current state of affairs. <i>Brain Stimulation</i> , 2020 , 13, 378-385	5.1	32
424	On the (Non-)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 1736-1749	5.6	32
423	Probabilistic Mapping of Deep Brain Stimulation: Insights from 15 Years of Therapy. <i>Annals of Neurology</i> , 2021 , 89, 426-443	9.4	32
422	Entorhinal Cortical Deep Brain Stimulation Rescues Memory Deficits in Both Young and Old Mice Genetically Engineered to Model Alzheimer's Disease. <i>Neuropsychopharmacology</i> , 2017 , 42, 2493-2503	8.7	31
421	Focus on the pedunculopontine nucleus. Consensus review from the May 2018 brainstem society meeting in Washington, DC, USA. <i>Clinical Neurophysiology</i> , 2019 , 130, 925-940	4.3	31
420	Predictors of deep brain stimulation outcome in tremor patients. <i>Brain Stimulation</i> , 2018 , 11, 592-599	5.1	31

419	Structural brain changes following subthalamic nucleus deep brain stimulation in Parkinson's disease. <i>Movement Disorders</i> , 2016 , 31, 1423-5	7	31
418	Predicting lesion size by accumulated thermal dose in MR-guided focused ultrasound for essential tremor. <i>Medical Physics</i> , 2018 , 45, 4704-4710	4.4	31
417	Clinicopathological study in progressive supranuclear palsy with pedunculopontine stimulation. <i>Movement Disorders</i> , 2012 , 27, 1304-7	7	31
416	Direct demonstration of inhibitory interactions between long interval intracortical inhibition and short interval intracortical inhibition. <i>Journal of Physiology</i> , 2011 , 589, 2955-62	3.9	31
415	Deep Brain Stimulator Electrodes Used for Lesioning: Proof of Principle. <i>Neurosurgery</i> , 2001 , 49, 363-369	3.2	31
414	Posteroventral medial pallidotomy in Parkinson's disease. <i>Journal of Neurology</i> , 1999 , 246 Suppl 2, 1128-45	4.5	31
413	Human central nervous system myelin inhibits neurite outgrowth. <i>Brain Research</i> , 1996 , 720, 17-24	3.7	31
412	Lack of depotentiation at basal ganglia output neurons in PD patients with levodopa-induced dyskinesia. <i>Neurobiology of Disease</i> , 2014 , 71, 24-33	7.5	30
411	Predictive factors of outcome in primary cervical dystonia following pallidal deep brain stimulation. <i>Movement Disorders</i> , 2013 , 28, 1451-5	7	30
410	The effect of dexmedetomidine on the firing properties of STN neurons in Parkinson's disease. <i>European Journal of Neuroscience</i> , 2015 , 42, 2070-7	3.5	30
409	The most cited works in major depression: the 'Citation classics'. <i>Journal of Affective Disorders</i> , 2011 , 134, 39-44	6.6	30
408	Informed consent for clinical trials of deep brain stimulation in psychiatric disease: challenges and implications for trial design. <i>Journal of Medical Ethics</i> , 2012 , 38, 107-11	2.5	30
407	Movement related potentials and oscillatory activities in the human internal globus pallidus during voluntary movements. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012 , 83, 91-7	5.5	30
406	Subdural motor cortex stimulation in Parkinson's disease does not modify movement-related rCBF pattern. <i>Movement Disorders</i> , 2007 , 22, 2113-6	7	30
405	The future of deep brain stimulation. <i>Journal of Clinical Neurophysiology</i> , 2004 , 21, 68-9	2.2	30
404	The core assessment program for intracerebral transplantation. <i>Movement Disorders</i> , 1995 , 10, 527-8	7	30
403	Deep brain stimulation: potential for neuroprotection. <i>Annals of Clinical and Translational Neurology</i> , 2019 , 6, 174-185	5.3	30
402	Neurosurgical treatment of anorexia nervosa: review of the literature from leucotomy to deep brain stimulation. <i>European Eating Disorders Review</i> , 2013 , 21, 428-35	5.3	29

401	Acute complications of movement disorders surgery: effects of age and comorbidities. <i>Movement Disorders</i> , 2013 , 28, 1661-7	7	29
400	GDNF in treatment of Parkinson's disease: response to editorial. <i>Lancet Neurology, The</i> , 2006 , 5, 200-2	24.1	29
399	Stereotactic neurosurgery for movement disorders. <i>Canadian Journal of Neurological Sciences</i> , 2003 , 30 Suppl 1, S72-82	1	29
398	Deep brain stimulation for Gilles de la Tourette syndrome in children and youth: a meta-analysis with individual participant data. <i>Journal of Neurosurgery: Pediatrics</i> , 2018 , 23, 236-246	2.1	29
397	A high-resolution in vivo magnetic resonance imaging atlas of the human hypothalamic region. <i>Scientific Data</i> , 2020 , 7, 305	8.2	29
396	Predicting optimal deep brain stimulation parameters for Parkinson's disease using functional MRI and machine learning. <i>Nature Communications</i> , 2021 , 12, 3043	17.4	29
395	Pallidal stimulation for dystonia. <i>Advances in Neurology</i> , 2004 , 94, 301-8		29
394	Subcallosal Cingulate Connectivity in Anorexia Nervosa Patients Differs From Healthy Controls: A Multi-tensor Tractography Study. <i>Brain Stimulation</i> , 2015 , 8, 758-68	5.1	28
393	Saccade-related potentials recorded from human subthalamic nucleus. <i>Clinical Neurophysiology</i> , 2007 , 118, 155-63	4.3	28
392	Deep Brain Stimulation Modulates Gamma Oscillations and Theta-Gamma Coupling in Treatment Resistant Depression. <i>Brain Stimulation</i> , 2015 , 8, 1033-42	5.1	27
391	Early-onset impairment of the ubiquitin-proteasome system in dopaminergic neurons caused by α -synuclein. <i>Acta Neuropathologica Communications</i> , 2020 , 8, 17	7.3	27
390	Fornical Closed-Loop Stimulation for Alzheimer's Disease. <i>Trends in Neurosciences</i> , 2018 , 41, 418-428	13.3	27
389	Imaging alone versus microelectrode recording-guided targeting of the STN in patients with Parkinson's disease. <i>Journal of Neurosurgery</i> , 2018 , 1-6	3.2	27
388	Beta coherence within human ventromedial prefrontal cortex precedes affective value choices. <i>NeuroImage</i> , 2014 , 85 Pt 2, 769-78	7.9	27
387	Regional anatomy of the pedunculopontine nucleus: relevance for deep brain stimulation. <i>Movement Disorders</i> , 2013 , 28, 1330-6	7	27
386	Improvement of pisa syndrome with contralateral pedunculopontine stimulation. <i>Movement Disorders</i> , 2013 , 28, 555-6	7	27
385	Natural history of Oppenheim's dystonia (DYT1) in Israel. <i>Journal of Child Neurology</i> , 2003 , 18, 325-30	2.5	27
384	Central pain in the absence of functional sensory thalamus. <i>Stereotactic and Functional Neurosurgery</i> , 1992 , 59, 9-14	1.6	27

383	Current surgical treatments for Parkinson's disease and potential therapeutic targets. <i>Neural Regeneration Research</i> , 2018 , 13, 1342-1345	4.5	27
382	Deep brain stimulation for the treatment of Parkinson's disease. <i>Journal of Neural Transmission Supplementum</i> , 2006 , 393-9		27
381	Microelectrode monitoring of cortical and subcortical structures during stereotactic surgery. <i>Acta Neurochirurgica Supplementum</i> , 1995 , 64, 30-4	1.7	27
380	Long-term results after deep brain stimulation of nucleus accumbens and the anterior limb of the internal capsule for preventing heroin relapse: An open-label pilot study. <i>Brain Stimulation</i> , 2019 , 12, 175-183	5.1	27
379	Inferior thalamic peduncle deep brain stimulation for treatment-refractory obsessive-compulsive disorder: A phase 1 pilot trial. <i>Brain Stimulation</i> , 2019 , 12, 344-352	5.1	27
378	Neuromodulation for the treatment of eating disorders and obesity. <i>Therapeutic Advances in Psychopharmacology</i> , 2018 , 8, 73-92	4.9	26
377	Neuromodulation for treatment-refractory major depressive disorder. <i>Cmaj</i> , 2014 , 186, 33-9	3.5	26
376	The History and Future of Ablative Neurosurgery for Major Depressive Disorder. <i>Stereotactic and Functional Neurosurgery</i> , 2017 , 95, 216-228	1.6	26
375	Deep brain stimulation for cognitive disorders. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2013 , 116, 307-11	3	26
374	Magnetic resonance-guided focused ultrasound thalamotomy for treatment of essential tremor: A 2-year outcome study. <i>Movement Disorders</i> , 2018 , 33, 1647-1650	7	26
373	Skull bone marrow injury caused by MR-guided focused ultrasound for cerebral functional procedures. <i>Journal of Neurosurgery</i> , 2018 , 130, 758-762	3.2	25
372	Cingulotomy for psychiatric disease: microelectrode guidance, a callosal reference system for documenting lesion location, and clinical results. <i>Neurosurgery</i> , 2008 , 62, 957-65	3.2	25
371	3-Tesla MRI of deep brain stimulation patients: safety assessment of coils and pulse sequences. <i>Journal of Neurosurgery</i> , 2019 , 132, 586-594	3.2	25
370	The rationale for deep brain stimulation in Alzheimer's disease. <i>Journal of Neural Transmission</i> , 2016 , 123, 775-783	4.3	24
369	A novel method for removal of deep brain stimulation artifact from electroencephalography. <i>Journal of Neuroscience Methods</i> , 2014 , 237, 33-40	3	24
368	Neurocognitive Predictors of Response in Treatment Resistant Depression to Subcallosal Cingulate Gyrus Deep Brain Stimulation. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 74	3.3	24
367	Location of active contacts in patients with primary dystonia treated with globus pallidus deep brain stimulation. <i>Operative Neurosurgery</i> , 2008 , 62, 217-23; discussion 223-5	1.6	24
366	Identification of arm movements using correlation of electrocorticographic spectral components and kinematic recordings. <i>Journal of Neural Engineering</i> , 2007 , 4, 146-58	5	24

365	Magnetic Resonance-Guided Focused Ultrasound : Current Status and Future Perspectives in Thermal Ablation and Blood-Brain Barrier Opening. <i>Journal of Korean Neurosurgical Society</i> , 2019 , 62, 10-26	2.3	24
364	3-Tesla MRI in patients with fully implanted deep brain stimulation devices: a preliminary study in 10 patients. <i>Journal of Neurosurgery</i> , 2017 , 127, 892-898	3.2	23
363	Magnetic Resonance Imaging-Guided Focused Ultrasound Thalamotomy in Parkinson Tremor: Reoperation After Benefit Decay. <i>Movement Disorders</i> , 2018 , 33, 848-849	7	23
362	Synaptic activity protects against AD and FTD-like pathology via autophagic-lysosomal degradation. <i>Molecular Psychiatry</i> , 2018 , 23, 1530-1540	15.1	23
361	Deep brain stimulation for disorders of memory and cognition. <i>Neurotherapeutics</i> , 2014 , 11, 527-34	6.4	23
360	Dopamine-dependent high-frequency oscillatory activity in thalamus and subthalamic nucleus of patients with Parkinson's disease. <i>NeuroReport</i> , 2009 , 20, 1549-53	1.7	23
359	Pallidal and thalamic surgery for Parkinson's disease. <i>Experimental Neurology</i> , 1997 , 144, 35-40	5.7	23
358	Novel surgical therapies for Tourette syndrome. <i>Journal of Child Neurology</i> , 2006 , 21, 715-8	2.5	23
357	Histological analysis of the location of effective thalamic stimulation for tremor. Case report. <i>Journal of Neurosurgery</i> , 2004 , 100, 547-52	3.2	23
356	Pallidal deep brain stimulation influences both reflexive and voluntary saccades in Huntington's disease. <i>Movement Disorders</i> , 2005 , 20, 371-7	7	23
355	Update on Current Technologies for Deep Brain Stimulation in Parkinson's Disease. <i>Journal of Movement Disorders</i> , 2020 , 13, 185-198	2.9	23
354	Neuroimaging Technological Advancements for Targeting in Functional Neurosurgery. <i>Current Neurology and Neuroscience Reports</i> , 2019 , 19, 42	6.6	22
353	The dominant-STN phenomenon in bilateral STN DBS for Parkinson's disease. <i>Neurobiology of Disease</i> , 2011 , 41, 131-7	7.5	22
352	Subthalamic nucleus deep brain stimulation improves saccades in Parkinson's disease. <i>Neuromodulation</i> , 2010 , 13, 17-25	3.1	22
351	Central nystagmus induced by deep-brain stimulation for epilepsy. <i>Epilepsia</i> , 2000 , 41, 1637-41	6.4	22
350	Brain targets for pain control. <i>Stereotactic and Functional Neurosurgery</i> , 1998 , 71, 173-9	1.6	22
349	Fornix-Region Deep Brain Stimulation-Induced Memory Flashbacks in Alzheimer's Disease. <i>New England Journal of Medicine</i> , 2019 , 381, 783-785	59.2	21
348	Trends in anorexia nervosa research: an analysis of the top 100 most cited works. <i>European Eating Disorders Review</i> , 2014 , 22, 9-14	5.3	21

347	Deep brain stimulation in clinical practice and in animal models. <i>Clinical Pharmacology and Therapeutics</i> , 2010 , 88, 559-62	6.1	21
346	Microelectrode recordings define the ventral posteromedial pallidotomy target. <i>Stereotactic and Functional Neurosurgery</i> , 1998 , 71, 153-63	1.6	21
345	Motor effects of stimulating the human cerebellar thalamus. <i>Journal of Physiology</i> , 1995 , 489 (Pt 1), 287-98	3.9	21
344	Deep brain stimulation for refractory obsessive-compulsive disorder (OCD): emerging or established therapy?. <i>Molecular Psychiatry</i> , 2021 , 26, 60-65	15.1	21
343	Advances in surgery for movement disorders. <i>Movement Disorders</i> , 2017 , 32, 5-10	7	20
342	The academic productivity and impact of the University of Toronto Neurosurgery Program as assessed by manuscripts published and their number of citations. <i>Journal of Neurosurgery</i> , 2015 , 123, 561-70	3.2	20
341	Anatomy and function of the fornix in the context of its potential as a therapeutic target. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020 , 91, 547-559	5.5	20
340	Bilateral pallidal stimulation for Wilson's disease. <i>Movement Disorders</i> , 2013 , 28, 1292-5	7	20
339	Measuring impact in stereotactic and functional neurosurgery: an analysis of the top 100 most highly cited works and the citation classics in the field. <i>Stereotactic and Functional Neurosurgery</i> , 2012 , 90, 201-9	1.6	20
338	Involvement of human thalamic neurons in internally and externally generated movements. <i>Journal of Neurophysiology</i> , 2004 , 91, 1085-90	3.2	20
337	Kinaesthetic neurons in thalamus of humans with and without tremor. <i>Experimental Brain Research</i> , 2003 , 150, 85-94	2.3	20
336	Deep Brain Stimulation in Rare Inherited Dystonias. <i>Brain Stimulation</i> , 2016 , 9, 905-910	5.1	20
335	Focused ultrasound as a novel strategy for Alzheimer disease therapeutics. <i>Annals of Neurology</i> , 2017 , 81, 611-617	9.4	19
334	Your algorithm might think the hippocampus grows in Alzheimer's disease: Caveats of longitudinal automated hippocampal volumetry. <i>Human Brain Mapping</i> , 2017 , 38, 2875-2896	5.9	19
333	Reduced paired pulse depression in the basal ganglia of dystonia patients. <i>Neurobiology of Disease</i> , 2013 , 51, 214-21	7.5	19
332	Waving Hello to Noninvasive Deep-Brain Stimulation. <i>New England Journal of Medicine</i> , 2017 , 377, 1096-1098	39.2	19
331	Subdural Continuous Theta Burst Stimulation of the Motor Cortex in Essential Tremor. <i>Brain Stimulation</i> , 2015 , 8, 840-2	5.1	19
330	The contemporary practice of psychiatric surgery: results from a global survey of functional neurosurgeons. <i>Stereotactic and Functional Neurosurgery</i> , 2013 , 91, 306-13	1.6	19

329	Neurosurgical treatment of bipolar depression: defining treatment resistance and identifying surgical targets. <i>Bipolar Disorders</i> , 2010 , 12, 691-701	3.8	19
328	Basal ganglia physiology and deep brain stimulation. <i>Movement Disorders</i> , 2010 , 25 Suppl 1, S71-5	7	19
327	New neurosurgical approaches for tremor and Parkinson's disease. <i>Current Opinion in Neurology</i> , 2017 , 30, 435-446	7.1	18
326	Improving outcomes of subthalamic nucleus deep brain stimulation in Parkinson's disease. <i>Expert Review of Neurotherapeutics</i> , 2015 , 15, 1151-60	4.3	18
325	Social Media for Academic Neurosurgical Programs: The University of Toronto Experience. <i>World Neurosurgery</i> , 2016 , 93, 449-57	2.1	18
324	Control of a neuroprosthesis for grasping using off-line classification of electrocorticographic signals: case study. <i>Spinal Cord</i> , 2009 , 47, 802-8	2.7	18
323	Systematic examination of low-intensity ultrasound parameters on human motor cortex excitability and behavior. <i>ELife</i> , 2020 , 9,	8.9	18
322	Modifying the progression of Alzheimer's and Parkinson's disease with deep brain stimulation. <i>Neuropharmacology</i> , 2020 , 171, 107860	5.5	18
321	Characterizing the effects of deep brain stimulation with magnetoencephalography: A review. <i>Brain Stimulation</i> , 2018 , 11, 481-491	5.1	17
320	Anatomic Targeting of the Optimal Location for Thalamic Deep Brain Stimulation in Patients with Essential Tremor. <i>World Neurosurgery</i> , 2017 , 107, 168-174	2.1	17
319	Harnessing plasticity to reset dysfunctional neurons. <i>New England Journal of Medicine</i> , 2011 , 364, 1367-8	59.2	17
318	Microstimulation-induced inhibition as a tool to aid targeting the ventral border of the subthalamic nucleus. <i>Journal of Neurosurgery</i> , 2009 , 111, 724-8	3.2	17
317	Dravet syndrome and deep brain stimulation: seizure control after 10 years of treatment. <i>Epilepsia</i> , 2010 , 51, 1314-6	6.4	17
316	Deep brain stimulation for childhood dystonia: current evidence and emerging practice. <i>Expert Review of Neurotherapeutics</i> , 2018 , 18, 773-784	4.3	17
315	Pedunculopontine nucleus stimulation in progressive supranuclear palsy: a randomised trial. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 613-616	5.5	16
314	Long-term neuropsychiatric outcomes after pallidal stimulation in primary and secondary dystonia. <i>Neurology</i> , 2015 , 85, 433-40	6.5	16
313	Pedunculopontine nucleus evoked potentials from subthalamic nucleus stimulation in Parkinson's disease. <i>Experimental Neurology</i> , 2013 , 250, 221-7	5.7	16
312	Long-term effect of unilateral pallidotomy on levodopa-induced dyskinesia. <i>Movement Disorders</i> , 2010 , 25, 1496-8	7	16

311	Pallidotomy increases cortical inhibition in Parkinson's disease. <i>Canadian Journal of Neurological Sciences</i> , 1997 , 24, 133-6	1	16
310	Comparison of three methods of targeting the subthalamic nucleus for chronic stimulation in Parkinson's disease. <i>Neurosurgery</i> , 2008 , 62 Suppl 2, 875-83	3.2	16
309	Deep brain stimulation electrodes used for staged lesion within the basal ganglia: experimental studies for parameter validation. Laboratory investigation. <i>Journal of Neurosurgery</i> , 2007 , 107, 1027-35	3.2	16
308	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , 2019 , 1-8	3.2	16
307	Modulation of inhibitory plasticity in basal ganglia output nuclei of patients with Parkinson's disease. <i>Neurobiology of Disease</i> , 2019 , 124, 46-56	7.5	16
306	Improving Safety of MRI in Patients with Deep Brain Stimulation Devices. <i>Radiology</i> , 2020 , 296, 250-262	20.5	15
305	Network Basis of Seizures Induced by Deep Brain Stimulation: Literature Review and Connectivity Analysis. <i>World Neurosurgery</i> , 2019 , 132, 314-320	2.1	15
304	Surgical treatment for secondary dystonia. <i>Movement Disorders</i> , 2012 , 27, 1598-605	7	15
303	Deep brain stimulation in obsessive-compulsive disorder: neurocircuitry and clinical experience. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2013 , 116, 245-50	3	15
302	Somatosensory evoked potentials recorded from the human pedunclopontine nucleus region. <i>Movement Disorders</i> , 2010 , 25, 2076-83	7	15
301	Combined scalp-thalamic EEG recording in sleep and epilepsy. <i>Clinical Neurophysiology</i> , 2002 , 113, 1867-9; author reply 1869	4.3	15
300	Probing the circuitry of panic with deep brain stimulation: Connectomic analysis and review of the literature. <i>Brain Stimulation</i> , 2020 , 13, 10-14	5.1	15
299	Exploring risk factors for stuttering development in Parkinson disease after deep brain stimulation. <i>Parkinsonism and Related Disorders</i> , 2017 , 38, 85-89	3.6	14
298	Preliminary evidence for human globus pallidus pars interna neurons signaling reward and sensory stimuli. <i>Neuroscience</i> , 2016 , 328, 30-9	3.9	14
297	Neural overlap between resting state and self-relevant activity in human subcallosal cingulate cortex--single unit recording in an intracranial study. <i>Cortex</i> , 2014 , 60, 139-44	3.8	14
296	Bilateral pallidal stimulation for sargoglycan epsilon negative myoclonus. <i>Parkinsonism and Related Disorders</i> , 2014 , 20, 915-8	3.6	14
295	What Have We Learned About Movement Disorders from Functional Neurosurgery?. <i>Annual Review of Neuroscience</i> , 2017 , 40, 453-477	17	14
294	Pallidal deep brain stimulation for a case of hemidystonia secondary to a striatal stroke. <i>Stereotactic and Functional Neurosurgery</i> , 2013 , 91, 190-7	1.6	14

293	Surgical approach to l-dopa-induced dyskinesias. <i>International Review of Neurobiology</i> , 2011 , 98, 151-71	4.4	14
292	Dual microelectrode technique for deep brain stereotactic surgery in humans. <i>Operative Neurosurgery</i> , 2007 , 60, 277-83; discussion 283-4	1.6	14
291	Comparison of 2-dimensional magnetic resonance imaging and 3-planar reconstruction methods for targeting the subthalamic nucleus in Parkinson disease. <i>World Neurosurgery</i> , 2005 , 63, 357-62; discussion 362-3		14
290	Injury and strain-dependent dopaminergic neuronal degeneration in the substantia nigra of mice after axotomy or MPTP. <i>Brain Research</i> , 2003 , 994, 243-52	3.7	14
289	Stereotactic surgery for temporal lobe epilepsy. <i>Canadian Journal of Neurological Sciences</i> , 2000 , 27 Suppl 1, S79-84; discussion S92-6	1	14
288	Microelectrode recording-guided posteroventral pallidotomy in patients with Parkinson's disease. <i>Advances in Neurology</i> , 1997 , 74, 167-74		14
287	Sequence of electrode implantation and outcome of deep brain stimulation for Parkinson's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, 859-63	5.5	13
286	Dystonia as complication of thalamic neurosurgery. <i>Parkinsonism and Related Disorders</i> , 2019 , 66, 232-236	6.6	13
285	Targeting emotion circuits with deep brain stimulation in refractory anorexia nervosa. <i>Neuropsychopharmacology</i> , 2014 , 39, 250-1	8.7	13
284	Brain stimulation for intractable epilepsy: Anterior thalamus and responsive stimulation. <i>Annals of Indian Academy of Neurology</i> , 2014 , 17, S95-8	0.9	13
283	Microinjection of GABAergic agents into the anterior nucleus of the thalamus modulates pilocarpine-induced seizures and status epilepticus. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2010 , 19, 242-6	3.2	13
282	Prominent 5-18 Hz oscillations in the pallidal-thalamic circuit in secondary dystonia. <i>Neurology</i> , 2012 , 78, 361-3	6.5	13
281	Pallidotomy for tremor. <i>Movement Disorders</i> , 1998 , 13 Suppl 3, 107-10	7	13
280	Physiologic studies in the human brain in movement disorders. <i>Parkinsonism and Related Disorders</i> , 2002 , 8, 455-8	3.6	13
279	Myelin from MAG-deficient mice is a strong inhibitor of neurite outgrowth. <i>NeuroReport</i> , 1996 , 7, 861-4	1.7	13
278	Neuroanatomical predictors of response to subcallosal cingulate deep brain stimulation for treatment-resistant depression. <i>Journal of Psychiatry and Neuroscience</i> , 2020 , 45, 45-54	4.5	13
277	Multimodal MRI for MRgFUS in essential tremor: post-treatment radiological markers of clinical outcome. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020 , 91, 921-927	5.5	13
276	A numerical study on the oblique focus in MR-guided transcranial focused ultrasound. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8025-8043	3.8	13

275	Spinal Cord Stimulation for Very Advanced Parkinson's Disease: A 1-Year Prospective Trial. <i>Movement Disorders</i> , 2020 , 35, 1082-1083	7	13
274	Evidence for synergism between cell death mechanisms in a cellular model of neurodegeneration in Parkinson's disease. <i>Neurotoxicity Research</i> , 2012 , 22, 355-64	4.3	12
273	Bilateral subthalamic nucleus stimulation for Parkinson's disease: a systematic review of the clinical literature. <i>Neurosurgery</i> , 2008 , 62 Suppl 2, 863-74	3.2	12
272	Simultaneous repetitive movements following pallidotomy or subthalamic deep brain stimulation in patients with Parkinson's disease. <i>Experimental Brain Research</i> , 2002 , 147, 322-31	2.3	12
271	Abscess within a brain metastasis. <i>Canadian Journal of Neurological Sciences</i> , 1996 , 23, 300-2	1	12
270	Lesion Network Localization of Seizure Freedom Following MR-guided Laser Interstitial Thermal Ablation. <i>Scientific Reports</i> , 2019 , 9, 18598	4.9	12
269	Deep brain stimulation for pantothenate kinase-associated neurodegeneration: A meta-analysis. <i>Movement Disorders</i> , 2019 , 34, 264-273	7	12
268	Deep Brain Stimulation Rescues Memory and Synaptic Activity in a Rat Model of Global Ischemia. <i>Journal of Neuroscience</i> , 2019 , 39, 2430-2440	6.6	11
267	The neurosurgical treatment of Alzheimer's disease: a review. <i>Stereotactic and Functional Neurosurgery</i> , 2014 , 92, 269-81	1.6	11
266	Pupillary responses and memory-guided visual search reveal age-related and Alzheimer's-related memory decline. <i>Behavioural Brain Research</i> , 2017 , 322, 351-361	3.4	11
265	Deep brain stimulation for treatment of dystonia secondary to stroke or trauma. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015 , 86, 1046-8	5.5	11
264	Monoamine oxidase inhibitors potentiate the effects of deep brain stimulation. <i>American Journal of Psychiatry</i> , 2012 , 169, 1320-1	11.9	11
263	The globus pallidus, deep brain stimulation, and Parkinson's disease. <i>Neuroscientist</i> , 2002 , 8, 284-90	7.6	11
262	Intraoperative localization of an epileptogenic focus with alfentanil and fentanyl. <i>Anesthesia and Analgesia</i> , 1999 , 88, 1101-6	3.9	11
261	Event-related deep brain stimulation of the subthalamic nucleus affects conflict processing. <i>Annals of Neurology</i> , 2018 , 84, 515-526	9.4	11
260	Bilateral Focused Ultrasound Thalamotomy for Essential Tremor (BEST-FUS Phase 2 Trial). <i>Movement Disorders</i> , 2021 , 36, 2653-2662	7	11
259	Pallidotomy for Parkinson's disease. <i>Advances in Neurology</i> , 2001 , 86, 413-20		11
258	Transcranial direct current stimulation does not improve memory deficits or alter pathological hallmarks in a rodent model of Alzheimer's disease. <i>Journal of Psychiatric Research</i> , 2019 , 114, 93-98	5.2	10

257	Transcranial Ultrasound Innovations Ready for Broad Clinical Application. <i>Advanced Science</i> , 2020 , 7, 2002026	13.6	10
256	Current and Expected Advances in Deep Brain Stimulation for Movement Disorders. <i>Progress in Neurological Surgery</i> , 2018 , 33, 222-229	1.4	10
255	Postmortem studies of deep brain stimulation for Parkinson's disease: a systematic review of the literature. <i>Cell and Tissue Research</i> , 2018 , 373, 287-295	4.2	10
254	Modulation of Beta oscillations in the subthalamic nucleus with prosaccades and antisaccades in Parkinson's disease. <i>Journal of Neuroscience</i> , 2013 , 33, 6895-904	6.6	10
253	New movement in Parkinson's. <i>Scientific American</i> , 2005 , 293, 68-75	0.5	10
252	Transient epileptic foci associated with intracranial hemorrhage in patients with subdural and epidural electrode placement. <i>Clinical Neurophysiology</i> , 1999 , 110, 419-23	4.3	10
251	Mapping the network underpinnings of central poststroke pain and analgesic neuromodulation. <i>Pain</i> , 2020 , 161, 2805-2819	8	10
250	Deep brain stimulation of the brainstem. <i>Brain</i> , 2021 , 144, 712-723	11.2	10
249	Brain structures and networks responsible for stimulation-induced memory flashbacks during forniceal deep brain stimulation for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021 , 17, 777-787	1.2	10
248	Subthalamic Nucleus Visualization on Routine Clinical Preoperative MRI Scans: A Retrospective Study of Clinical and Image Characteristics Predicting Its Visualization. <i>Stereotactic and Functional Neurosurgery</i> , 2018 , 96, 120-126	1.6	10
247	Patient-adjusted deep-brain stimulation programming is time saving in dystonia patients. <i>Journal of Neurology</i> , 2019 , 266, 2423-2429	5.5	9
246	Bio-Heat Model of Kilohertz-Frequency Deep Brain Stimulation Increases Brain Tissue Temperature. <i>Neuromodulation</i> , 2020 , 23, 489-495	3.1	9
245	Conflict monitoring mechanism at the single-neuron level in the human ventral anterior cingulate cortex. <i>NeuroImage</i> , 2018 , 175, 45-55	7.9	9
244	MRI-guided focused ultrasound thalamotomy in fragile X-associated tremor/ataxia syndrome. <i>Neurology</i> , 2016 , 87, 736-8	6.5	9
243	Spinal cord stimulation in primary progressive freezing of gait. <i>Movement Disorders</i> , 2017 , 32, 1336-1337		9
242	Subcortical (thalamic) automated seizure detection: A new option for contingent therapy delivery. <i>Epilepsia</i> , 2015 , 56, e156-60	6.4	9
241	Stereotactic techniques and perioperative management of DBS in dystonia. <i>Movement Disorders</i> , 2011 , 26 Suppl 1, S23-30	7	9
240	Dissociation of thalamic high frequency oscillations and slow component of sensory evoked potentials following damage to ascending pathways. <i>Clinical Neurophysiology</i> , 2006 , 117, 906-11	4.3	9

239	Cortical reflex myoclonus studied with cortical electrodes. <i>Clinical Neurophysiology</i> , 1999 , 110, 1521-30	4.3	9
238	A convenient in vitro assay for the inhibition of neurite outgrowth by adult mammalian CNS myelin using immortalized neuronal cells. <i>Journal of Neuroscience Methods</i> , 1995 , 63, 23-8	3	9
237	Deep Brain Stimulation for Alzheimer's Disease: Tackling Circuit Dysfunction. <i>Neuromodulation</i> , 2021 , 24, 171-186	3.1	9
236	Deep brain stimulation and chemical neuromodulation: current use and perspectives for the future. <i>Acta Neurochirurgica Supplementum</i> , 2007 , 97, 127-33	1.7	9
235	Aggressiveness after centromedian nucleus stimulation engages prefrontal thalamocortical circuitry. <i>Brain Stimulation</i> , 2020 , 13, 357-359	5.1	9
234	Surgery for Parkinson's disease, the five W's: why, who, what, where, and when. <i>Advances in Neurology</i> , 2003 , 91, 303-7		9
233	Does dominant pedunculo-pontine nucleus exist?. <i>Brain</i> , 2015 , 138, e323	11.2	8
232	Evaluating the potential of deep brain stimulation for treatment-resistant anorexia nervosa. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2013 , 116, 271-6	3	8
231	A narrative history of the International Society for Psychiatric Surgery: 1970-1983. <i>Stereotactic and Functional Neurosurgery</i> , 2012 , 90, 347-55	1.6	8
230	Event-related desynchronization of motor cortical oscillations in patients with multiple system atrophy. <i>Experimental Brain Research</i> , 2010 , 206, 1-13	2.3	8
229	An antineuronal monoclonal antibody that reverses neurite growth inhibition by central nervous system myelin. <i>Journal of Neuroscience Research</i> , 1995 , 42, 306-13	4.4	8
228	Induction of Human Motor Cortex Plasticity by Theta Burst Transcranial Ultrasound Stimulation.. <i>Annals of Neurology</i> , 2021 ,	9.4	8
227	Full-field swept-source optical coherence tomography and neural tissue classification for deep brain imaging. <i>Journal of Biophotonics</i> , 2020 , 13, e201960083	3.1	8
226	Sign-specific stimulation 'hot' and 'cold' spots in Parkinson's disease validated with machine learning. <i>Brain Communications</i> , 2021 , 3, fcab027	4.5	8
225	Implantable photonic neural probes for light-sheet fluorescence brain imaging. <i>Neurophotonics</i> , 2021 , 8, 025003	3.9	8
224	Structuro-functional surrogates of response to subcallosal cingulate deep brain stimulation for depression. <i>Brain</i> , 2021 ,	11.2	8
223	High frequency stimulation of the infralimbic cortex induces morphological changes in rat hippocampal neurons. <i>Brain Stimulation</i> , 2017 , 10, 315-323	5.1	7
222	Simultaneous Stimulation of the Globus Pallidus Interna and the Nucleus Basalis of Meynert in the Parkinson-Dementia Syndrome. <i>Dementia and Geriatric Cognitive Disorders</i> , 2019 , 47, 19-28	2.6	7

221	The Changing Landscape of Treatment for Intracranial Aneurysm. <i>Canadian Journal of Neurological Sciences</i> , 2019 , 46, 159-165	1	7
220	Therapeutic Window of Deep Brain Stimulation Using Cathodic Monopolar, Bipolar, Semi-Bipolar, and Anodic Stimulation. <i>Neuromodulation</i> , 2019 , 22, 451-455	3.1	7
219	Paired Pulse Depression in the Subcallosal Cingulate Region of Depression Patients. <i>Biological Psychiatry</i> , 2015 , 78, e3-e4	7.9	7
218	Deep Brain Stimulation of the Fornix: Engaging Therapeutic Circuits and Networks in Alzheimer Disease. <i>Neurosurgery</i> , 2016 , 63 Suppl 1, 1-5	3.2	7
217	Restating the importance of bipolar recording in subcortical nuclei. <i>Clinical Neurophysiology</i> , 2006 , 117, 474-5	4.3	7
216	Neuronal age influences the response to neurite outgrowth inhibitory activity in the central and peripheral nervous systems. <i>Brain Research</i> , 1999 , 836, 49-61	3.7	7
215	Familial mixed oligodendrocytic-astrocytic gliomas. <i>Neurosurgery</i> , 1986 , 18, 480-2	3.2	7
214	The effects of pallidotomy on Parkinson's disease: study design and assessment techniques. <i>Acta Neurochirurgica Supplementum</i> , 1997 , 68, 24-8	1.7	7
213	Ultra-high-frequency deep brain stimulation at 10,000 Hz improves motor function. <i>Movement Disorders</i> , 2019 , 34, 146-148	7	7
212	Current Status of Deep Brain Stimulation for Alzheimer's Disease: From Chance Observation to Clinical Trials. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2018 , 83, 201-205	3.9	7
211	Studying Behaviors Among Neurosurgery Residents Using Web 2.0 Analytic Tools. <i>Journal of Surgical Education</i> , 2017 , 74, 1088-1093	3.4	6
210	Magnetic Resonance-Guided Focused Ultrasound Thalamotomy to Treat Essential Tremor in Nonagenarians. <i>Stereotactic and Functional Neurosurgery</i> , 2020 , 98, 182-186	1.6	6
209	Phase-amplitude coupling within the anterior thalamic nuclei during seizures. <i>Journal of Neurophysiology</i> , 2018 , 119, 1497-1505	3.2	6
208	Hybrid deep brain stimulation system to manage stimulation-induced side effects in essential tremor patients. <i>Parkinsonism and Related Disorders</i> , 2019 , 58, 85-86	3.6	6
207	Deep brain stimulation for the management of seizures in MECP2 duplication syndrome. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2014 , 23, 405-7	3.2	6
206	130 Bilateral Fornix Deep Brain Stimulation for Alzheimer Disease. <i>Neurosurgery</i> , 2015 , 62, 207	3.2	6
205	Reoperation of deep brain stimulation in patients with essential tremor. <i>World Neurosurgery</i> , 2012 , 78, 442-4	2.1	6
204	Deep brain stimulation: the spectrum of application. <i>Neurosurgical Focus</i> , 2010 , 29, Introduction	4.2	6

203	Brain-machine interfaces for motor control: a guide for neuroscience clinicians. <i>Canadian Journal of Neurological Sciences</i> , 2012 , 39, 11-22	1	6
202	Neuronal activity in the globus pallidus of multiple system atrophy patients. <i>Movement Disorders</i> , 2004 , 19, 1485-92	7	6
201	Cerebral aneurysms and polycystic kidney disease: a critical review. <i>Canadian Journal of Neurological Sciences</i> , 1992 , 19, 222-7	1	6
200	3 T MRI of rapid brain activity changes driven by subcallosal cingulate deep brain stimulation.. <i>Brain</i> , 2021 ,	11.2	6
199	Nucleus basalis of Meynert neuronal activity in Parkinson's disease. <i>Journal of Neurosurgery</i> , 2019 , 132, 574-582	3.2	6
198	Neuromodulation and ablation with focused ultrasound - toward the future of noninvasive brain therapy. <i>Neural Regeneration Research</i> , 2019 , 14, 1509-1510	4.5	6
197	Identification of neural networks preferentially engaged by epileptogenic mass lesions through lesion network mapping analysis. <i>Scientific Reports</i> , 2020 , 10, 10989	4.9	6
196	Deep Brain Stimulation of the Habenula: Systematic Review of the Literature and Clinical Trial Registries. <i>Frontiers in Psychiatry</i> , 2021 , 12, 730931	5	6
195	Clinical perspectives of adaptive deep brain stimulation. <i>Brain Stimulation</i> , 2021 , 14, 1238-1247	5.1	6
194	Subthalamic suppression defines therapeutic threshold of deep brain stimulation in Parkinson's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019 , 90, 1105-1108	5.5	5
193	Combined Deep Brain Stimulation of Subthalamic Nucleus and Ventral Intermediate Thalamic Nucleus in Tremor-Dominant Parkinson's Disease Using a Parietal Approach. <i>Neuromodulation</i> , 2019 , 22, 493-502	3.1	5
192	Marked reduction of tremor in essential tremor after putaminal infarct. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010 , 81, 1172-3	5.5	5
191	Deep brain stimulation for Parkinson disease. <i>Journal of Neurosurgery</i> , 2010 , 112, 477; discussion 477-8	3.2	5
190	Bilateral anterior thalamic nucleus lesions are not protective against seizures in chronic pilocarpine epileptic rats. <i>Stereotactic and Functional Neurosurgery</i> , 2009 , 87, 143-7	1.6	5
189	Involvement of the human ventrolateral thalamus in the control of visually guided saccades. <i>Brain Stimulation</i> , 2010 , 3, 226-9	5.1	5
188	Neural stimulation for Parkinson's disease: current therapies and future directions. <i>Expert Review of Neurotherapeutics</i> , 2006 , 6, 101-9	4.3	5
187	Chronic (Rasmussen's) encephalitis in an adult. <i>Canadian Journal of Neurological Sciences</i> , 2003 , 30, 263-5		5
186	Surgical Management of Tremor. <i>Neurosurgery Quarterly</i> , 2004 , 14, 60-68		5

185	Mapping efficacious deep brain stimulation for pediatric dystonia. <i>Journal of Neurosurgery: Pediatrics</i> , 2021 , 1-11	2.1	5
184	Kilohertz-frequency stimulation of the nervous system: A review of underlying mechanisms. <i>Brain Stimulation</i> , 2021 , 14, 513-530	5.1	5
183	Potential optimization of focused ultrasound capsulotomy for obsessive compulsive disorder. <i>Brain</i> , 2021 ,	11.2	5
182	Successful pallidotomy for post-hyperglycemic hemichorea-ballism. <i>Parkinsonism and Related Disorders</i> , 2019 , 61, 228-230	3.6	5
181	Adoption of focused ultrasound thalamotomy for essential tremor: why so much fuss about FUS?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021 , 92, 549-554	5.5	5
180	The Future of Surgical Treatments for Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2018 , 8, S79-S83	5.3	5
179	Eight-hours conventional versus adaptive deep brain stimulation of the subthalamic nucleus in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2021 , 7, 88	9.7	5
178	Blood oxygen level-dependent (BOLD) response patterns with thalamic deep brain stimulation in patients with medically refractory epilepsy. <i>Epilepsy and Behavior</i> , 2021 , 122, 108153	3.2	5
177	Two indications, one target: Concomitant epilepsy and Tourettism treated with Centromedian/parafascicular thalamic stimulation. <i>Brain Stimulation</i> , 2017 , 10, 711-713	5.1	4
176	Introduction: Deep brain stimulation: current assessment, new applications, and future innovations. <i>Neurosurgical Focus</i> , 2015 , 38, E1	4.2	4
175	Functional movement disorders arising after successful deep brain stimulation. <i>Neurology</i> , 2018 , 90, 931-932	6.5	4
174	Spinal cord stimulation for gait impairment in spinocerebellar ataxia 7. <i>Journal of Neurology</i> , 2014 , 261, 570-4	5.5	4
173	Some recent trends and further promising directions in functional neurosurgery. <i>Acta Neurochirurgica Supplementum</i> , 2013 , 117, 87-92	1.7	4
172	Reply to: Electrical Brain Stimulation in Depression: Which Target(s)?. <i>Biological Psychiatry</i> , 2011 , 69, e7-e8	7.9	4
171	Reply: Parkinson's disease, DBS and suicide: a role for serotonin?. <i>Brain</i> , 2009 , 132, e127-e127	11.2	4
170	Real-time two-dimensional asynchronous control of a computer cursor with a single subdural electrode. <i>Journal of Spinal Cord Medicine</i> , 2012 , 35, 382-91	1.9	4
169	Attenuation of long-term depression in human striatum after anterior capsulotomy. <i>Stereotactic and Functional Neurosurgery</i> , 2008 , 86, 224-30	1.6	4
168	New developments in the surgery for Parkinson's disease. <i>Canadian Journal of Neurological Sciences</i> , 1999 , 26 Suppl 2, S45-52	1	4

167	Methylglyoxal inhibits the translation of natural and chemically decapped mRNAs. <i>Bioscience Reports</i> , 1984 , 4, 783-8	4.1	4
166	Deep brain stimulation targets in epilepsy: Systematic review and meta-analysis of anterior and centromedian thalamic nuclei and hippocampus.. <i>Epilepsia</i> , 2022 ,	6.4	4
165	A Network-Based Approach to Glioma Surgery: Insights from Functional Neurosurgery. <i>Cancers</i> , 2021 , 13,	6.6	4
164	Trends in Clinical Trials for Spinal Cord Stimulation. <i>Stereotactic and Functional Neurosurgery</i> , 2021 , 99, 123-134	1.6	4
163	Considerations for Patient and Target Selection in Deep Brain Stimulation Surgery for Parkinson's Disease	145-160	
162	Clinical phenotypes associated with outcomes following deep brain stimulation for childhood dystonia. <i>Journal of Neurosurgery: Pediatrics</i> , 2019 , 1-9	2.1	4
161	Secondary Worsening Following DYT1 Dystonia Deep Brain Stimulation: A Multi-country Cohort. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 242	3.3	4
160	Long-term follow-up of deep brain stimulation for anorexia nervosa. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021 , 92, 1135-1136	5.5	4
159	A literature review of magnetic resonance imaging sequence advancements in visualizing functional neurosurgery targets. <i>Journal of Neurosurgery</i> , 2021 , 1-14	3.2	4
158	Mapping autonomic, mood and cognitive effects of hypothalamic region deep brain stimulation. <i>Brain</i> , 2021 , 144, 2837-2851	11.2	4
157	Prediction and detection of seizures from simultaneous thalamic and scalp electroencephalography recordings. <i>Journal of Neurosurgery</i> , 2017 , 126, 2036-2044	3.2	4
156	Stopping and slowing manual and spoken responses: Similar oscillatory signatures recorded from the subthalamic nucleus. <i>Brain and Language</i> , 2018 , 176, 1-10	2.9	4
155	Pallidotomy for Parkinson's disease. <i>Neurosurgery Clinics of North America</i> , 1998 , 9, 325-36	4	4
154	Enhanced Interplay of Neuronal Coherence and Coupling in the Dying Human Brain.. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 813531	5.3	4
153	Introduction to Deep Brain Stimulation. <i>Neurosurgical Focus</i> , 2017 , 42, Intro	4.2	3
152	Feasibility of magnetoencephalographic source imaging in patients with thalamic deep brain stimulation for epilepsy. <i>Epilepsia Open</i> , 2017 , 2, 101-106	4	3
151	Deep brain stimulation for Parkinson disease in elderly individuals. <i>JAMA Neurology</i> , 2015 , 72, 367	17.2	3
150	Research Consent for Deep Brain Stimulation in Treatment-Resistant Depression: Balancing Risk With Patient Expectations. <i>AJOB Neuroscience</i> , 2011 , 2, 39-41	0.8	3

149	Neurosurgery and Deep Brain Stimulation for Psychiatric Disease: Historical Context and Future Prospects. <i>AJOB Neuroscience</i> , 2012 , 3, 9-12	0.8	3
148	The Surgical Management of Parkinson's Disease. <i>Contemporary Neurosurgery</i> , 1997 , 19, 1	0.2	3
147	GAP-43: purification from a prokaryotic expression system, phosphorylation in cultured neurons, and regulation of synthesis in the central nervous system. <i>Progress in Brain Research</i> , 1991 , 89, 17-26	2.9	3
146	The surgical management of Parkinson's disease. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011 , 10, 685-92	2.6	3
145	Stimulation Physiology in Functional Neurosurgery 2009 , 1383-1399		3
144	Toward a unified connectomic target for deep brain stimulation in obsessive-compulsive disorder		3
143	Endovascular deep brain stimulation: Investigating the relationship between vascular structures and deep brain stimulation targets. <i>Brain Stimulation</i> , 2020 , 13, 1668-1677	5.1	3
142	Self-adjustment of deep brain stimulation delays optimization in Parkinson's disease. <i>Brain Stimulation</i> , 2021 , 14, 676-681	5.1	3
141	Acute low frequency dorsal subthalamic nucleus stimulation improves verbal fluency in Parkinson's disease. <i>Brain Stimulation</i> , 2021 , 14, 754-760	5.1	3
140	Time course of the effects of low-intensity transcranial ultrasound on the excitability of ipsilateral and contralateral human primary motor cortex. <i>NeuroImage</i> , 2021 , 243, 118557	7.9	3
139	Neuronal Activity in Motor Thalamus of Parkinson's Disease Patients 2001 , 267-274		3
138	A psychiatric primer for the functional neurosurgeon. <i>Journal of Neurosurgical Sciences</i> , 2012 , 56, 209-201.	1.3	3
137	Probing responses to deep brain stimulation with functional magnetic resonance imaging.. <i>Brain Stimulation</i> , 2022 ,	5.1	3
136	Low-Frequency Stimulation of Globus Pallidus Internus for Axial Motor Symptoms of Parkinson's Disease. <i>Movement Disorders Clinical Practice</i> , 2015 , 2, 445-446	2.2	2
135	Cosmetic neurosurgery, ethics, and enhancement. <i>Lancet Psychiatry</i> , 2015 , 2, 585-6	23.3	2
134	Stimulation-induced reversed plus-minus syndrome: Insights into eyelid physiology. <i>Brain Stimulation</i> , 2018 , 11, 951-952	5.1	2
133	Neurocircuits commonly involved in psychiatric disorders and their stimulation and lesion therapies 2016 , 27-48		2
132	Basic principles of deep brain and cortical stimulation 2016 , 101-110		2

131	Ethical surgical placebo-controlled trials of deep brain stimulation for treatment-resistant anorexia nervosa - Authors' reply. <i>Lancet Psychiatry</i> , 2017 , 4, 442	23.3	2
130	Magnetic Resonance Imaging and Deep Brain Stimulation: Questions of Safety. <i>World Neurosurgery</i> , 2011 , 76, 71-73	2.1	2
129	Reply: Where are the somatosensory evoked potentials recorded from DBS leads implanted in the human pedunculopontine tegmental nucleus generated?. <i>Movement Disorders</i> , 2011 , 26, 1573-1574	7	2
128	Effect of GPi pallidotomy on neuropsychological function in Parkinson's Disease. <i>Archives of Clinical Neuropsychology</i> , 1997 , 12, 419-419	2.7	2
127	Deep Brain Stimulation for Treatment-Resistant Depression. <i>Focus (American Psychiatric Publishing)</i> , 2008 , 6, 143-154	1.1	2
126	Targeting human PPN: few patients, numerous disputes. <i>Brain</i> , 2007 , 130, e80-e80	11.2	2
125	Effects of internal globus pallidus stimulation on motor cortex excitability. <i>Neurology</i> , 2002 , 58, 669-70; author reply 670	6.5	2
124	Deep brain stimulation for extreme behaviors associated with autism spectrum disorder converges on a common pathway: a systematic review and connectomic analysis.. <i>Journal of Neurosurgery</i> , 2022 , 1-10	3.2	2
123	Untapped Neuroimaging Tools for Neuro-Oncology: Connectomics and Spatial Transcriptomics.. <i>Cancers</i> , 2022 , 14,	6.6	2
122	Toward focused ultrasound neuromodulation in deep brain stimulator implanted patients: Ex-vivo thermal, kinetic and targeting feasibility assessment.. <i>Brain Stimulation</i> , 2022 , 15, 376-379	5.1	2
121	Small molecule inhibitors of β -synuclein oligomers identified by targeting early dopamine-mediated motor impairment in <i>C. elegans</i> . <i>Molecular Neurodegeneration</i> , 2021 , 16, 77	19	2
120	The Most Cited Works in Essential Tremor and Dystonia. <i>Tremor and Other Hyperkinetic Movements</i> , 2016 , 6, 310	2	2
119	Modulation of CNS Functions by Deep Brain Stimulation: Insights Provided by Molecular Imaging 2021 , 1177-1244		2
118	Surgical Treatment of Major Depression 2011 , 1018-1025		2
117	Evidence Base 2011 , 1809-1820		2
116	Novel Deep Brain Stimulation Technologies for Parkinson's Disease: More Expectations, More Frustrations?. <i>Movement Disorders Clinical Practice</i> , 2020 , 7, 113-114	2.2	2
115	Lesions causing self-injurious behavior engage putative networks modulated by deep brain stimulation. <i>Brain Stimulation</i> , 2021 , 14, 273-276	5.1	2
114	A theoretical framework for the site-specific and frequency-dependent neuronal effects of deep brain stimulation. <i>Brain Stimulation</i> , 2021 , 14, 807-821	5.1	2

113	Diffusion tensor imaging and deep brain stimulation. <i>Expert Review of Medical Devices</i> , 2016 , 13, 615-7	3.5	2
112	Lesion Network Mapping Analysis Identifies Potential Cause of Postoperative Depression in a Case of Cingulate Low-Grade Glioma. <i>World Neurosurgery</i> , 2020 , 133, 278-282	2.1	2
111	Microelectrode Recording and Radiofrequency Thalamotomy following Focused Ultrasound Thalamotomy. <i>Stereotactic and Functional Neurosurgery</i> , 2021 , 99, 34-37	1.6	2
110	Theta Burst Deep Brain Stimulation in Movement Disorders. <i>Movement Disorders Clinical Practice</i> , 2021 , 8, 282-285	2.2	2
109	Implantable Pulse Generators for Deep Brain Stimulation: Challenges, Complications, and Strategies for Practicality and Longevity. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 708481	3.3	2
108	Local Field Potential-Based Programming: A Proof-of-Concept Pilot Study. <i>Neuromodulation</i> , 2021 ,	3.1	2
107	Normative connectomes and their use in DBS 2022 , 245-274		2
106	Human Studies of Transcranial Ultrasound neuromodulation: A systematic review of effectiveness and safety.. <i>Brain Stimulation</i> , 2022 , 15, 737-746	5.1	2
105	Deep Brain Stimulation of the Medial Septal Nucleus Induces Expression of a Virally Delivered Reporter Gene in Dentate Gyrus. <i>Frontiers in Neuroscience</i> , 2020 , 14, 463	5.1	1
104	Magnetic resonance imaging in neuromodulation 2016 , 49-79		1
103	Parkinson Disease: Treatment Options [Surgical Therapy 2017 , 53-57		1
102	Reply: the FM/AM world is shaping the future of deep brain stimulation. <i>Movement Disorders</i> , 2014 , 29, 1327-8	7	1
101	Preface. Discovery of electricity. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2013 , 116, ix-x	3	1
100	Subcallosal Cingulate Gyrus Deep Brain Stimulation for Treatment-Resistant Depression. <i>Focus (American Psychiatric Publishing)</i> , 2010 , 8, 583-591	1.1	1
99	Microelectrode Recording in Functional Neurosurgery 2009 , 1283-1323		1
98	Identification of Arm Movements Using Electrographic Signals 2007 ,		1
97	To serve and protect? Interventions in the subthalamic nucleus for Parkinson's disease. Commentary on "Ablation of the subthalamic nucleus protects dopaminergic phenotype but not cell survival in a rat model of Parkinson's disease". <i>Experimental Neurology</i> , 2004 , 185, 201-3	5.7	1
96	Neonatal ablation of the nigrostriatal dopamine pathway does not influence limb development in rats. <i>Experimental Neurology</i> , 2002 , 177, 547-56	5.7	1

95	Evaluation of surgery for Parkinson's disease: report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. <i>Neurology</i> , 2000 , 55, 154	6.5	1
94	Effect of 7-methylguanosine-5'-phosphate on the translation of rat milk-protein mRNAs in the wheat-germ cell-free system. <i>Bioscience Reports</i> , 1984 , 4, 535-40	4.1	1
93	Commentary: Feasibility of Magnetic Resonance-Guided Focused Ultrasound Thalamotomy for Essential Tremor in the Setting of Prior Craniotomy.. <i>Operative Neurosurgery</i> , 2022 , 22,	1.6	1
92	Where Are We with Deep Brain Stimulation? A Review of Scientific Publications and Ongoing Research.. <i>Stereotactic and Functional Neurosurgery</i> , 2022 , 1-14	1.6	1
91	Letter to the Editor. Clinical Rating Scale for Tremor: a needed clarification. <i>Journal of Neurosurgery</i> , 2021 , 1-2	3.2	1
90	Single-Trajectory Multiple-Target Deep Brain Stimulation for Parkinsonian Mobility and Cognition. <i>Movement Disorders</i> , 2021 ,	7	1
89	Double-blind cross-over pilot trial protocol to evaluate the safety and preliminary efficacy of long-term adaptive deep brain stimulation in patients with Parkinson's disease.. <i>BMJ Open</i> , 2022 , 12, e049955	3	1
88	Safety assessment of spine MRI in deep brain stimulation patients. <i>Journal of Neurosurgery: Spine</i> , 2020 , 1-11	2.8	1
87	Deep Brain Stimulation for Psychiatric Disorders 2015 , 169-181		1
86	PPN Stimulation for Parkinson's Disease 2009 , 1649-1663		1
85	Subgenual Cingulate Gyrus Deep Brain Stimulation: Current Status and Future Directions. <i>Psychiatric Annals</i> , 2010 , 40, 485-491	0.5	1
84	Surgical targeting of large hypothalamic hamartomas and seizure-freedom following MR-guided laser interstitial thermal therapy. <i>Epilepsy and Behavior</i> , 2021 , 116, 107774	3.2	1
83	Programming Directional Deep Brain Stimulation in Parkinson's Disease: A Randomized Prospective Trial Comparing Early versus Delayed Stimulation Steering. <i>Stereotactic and Functional Neurosurgery</i> , 2021 , 99, 484-490	1.6	1
82	Complete resolution of postherpetic neuralgia following pallidotomy: case report. <i>Journal of Neurosurgery</i> , 2019 , 1-6	3.2	1
81	Levodopa Versus Dopamine Agonist after Subthalamic Stimulation in Parkinson's Disease. <i>Movement Disorders</i> , 2021 , 36, 672-680	7	1
80	An exploratory study into the influence of laterality and location of hippocampal sclerosis on seizure prognosis and global cortical thinning. <i>Scientific Reports</i> , 2021 , 11, 4686	4.9	1
79	Neuromodulation in Anorexia Nervosa 2018 , 1073-1079		1
78	Flexible vs. standard subthalamic stimulation in Parkinson disease: A double-blind proof-of-concept cross-over trial. <i>Parkinsonism and Related Disorders</i> , 2021 , 89, 93-97	3.6	1

77	Neuromodulation for Pain: A Comprehensive Survey and Systematic Review of Clinical Trials and Connectomic Analysis of Brain Targets. <i>Stereotactic and Functional Neurosurgery</i> , 2021 , 1-12	1.6	1
76	Effect of Age on Clinical Trial Outcome in Participants with Probable Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021 , 82, 1243-1257	4.3	1
75	Neuromodulatory treatments for psychiatric disease: A comprehensive survey of the clinical trial landscape. <i>Brain Stimulation</i> , 2021 , 14, 1393-1403	5.1	1
74	Brain Structures and Networks Underlying Treatment Response to Deep Brain Stimulation Targeting the Inferior Thalamic Peduncle in Obsessive-Compulsive Disorder.. <i>Stereotactic and Functional Neurosurgery</i> , 2022 , 1-8	1.6	1
73	A Functional Connectome of Parkinson's Disease Patients Prior to Deep Brain Stimulation: A Tool for Disease-Specific Connectivity Analyses. <i>Frontiers in Neuroscience</i> , 16,	5.1	1
72	Introduction. Deep brain stimulation in 2018. <i>Neurosurgical Focus</i> , 2018 , 45, E1	4.2	0
71	The Wilson films--hemiballism. <i>Movement Disorders</i> , 2011 , 26, 2469-70	7	0
70	Activation of the anterior cingulate cortex by thalamic stimulation in patients with chronic pain: a positron emission tomography study. <i>Neurosurgical Focus</i> , 2000 , 8, 1-6	4.2	0
69	Leukoencephalopathy with brain calcifications and cysts (Labrune syndrome) case report: diagnosis and management of a rare neurological disease.. <i>BMC Neurology</i> , 2022 , 22, 10	3.1	0
68	Dysgeusia induced and resolved by focused ultrasound thalamotomy: case report. <i>Journal of Neurosurgery</i> , 2021 , 1-6	3.2	0
67	Habenular Involvement in Response to Subcallosal Cingulate Deep Brain Stimulation for Depression.. <i>Frontiers in Psychiatry</i> , 2022 , 13, 810777	5	0
66	The Association of Dexmedetomidine with Firing Properties in Pallidal Neurons. <i>Canadian Journal of Neurological Sciences</i> , 2021 , 48, 525-533	1	0
65	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. <i>Neurology: Clinical Practice</i> , 2021 , 11, e497-e503	1.7	0
64	Lateralizing magnetic resonance imaging findings in mesial temporal sclerosis and correlation with seizure and neurocognitive outcome after temporal lobectomy. <i>Epilepsy Research</i> , 2021 , 171, 106562	3	0
63	Evolution of the Neurosurgeon's Role in Clinical Trials for Glioblastoma: A Systematic Overview of the Clinicaltrials.Gov Database. <i>Neurosurgery</i> , 2021 , 89, 196-203	3.2	0
62	Gamma oscillations in the somatosensory thalamus of a patient with a phantom limb: case report. <i>Journal of Neurosurgery</i> , 2018 , 129, 1048-1055	3.2	0
61	Fronto-subthalamic phase synchronization and cross-frequency coupling during conflict processing. <i>NeuroImage</i> , 2021 , 238, 118205	7.9	0
60	Neurophysiological responses of globus pallidus internus during the auditory oddball task in Parkinson's disease. <i>Neurobiology of Disease</i> , 2021 , 159, 105490	7.5	0

59	Clinical outcomes and complications of peripheral nerve field stimulation in the management of refractory trigeminal pain: a systematic review and meta-analysis.. <i>Journal of Neurosurgery</i> , 2022 , 1-9	3.2	o
58	Response: Letter to the Editor: Deep brain stimulation targets in epilepsy: Systematic review and meta-analysis of anterior and centromedian thalamic nuclei and hippocampus.. <i>Epilepsia</i> , 2022 ,	6.4	o
57	Idiopathic Parkinson's disease and chronic pain in the era of deep brain stimulation: a systematic review and meta-analysis.. <i>Journal of Neurosurgery</i> , 2022 , 1-10	3.2	o
56	Does conventional early life academic excellence predict later life scientific discovery? An assessment of the lives of great medical innovators. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2021 , 114, 381-389	2.7	
55	Author response: MRI-guided focused ultrasound thalamotomy in non-ET tremor syndromes. <i>Neurology</i> , 2018 , 90, 439	6.5	
54	History of invasive brain stimulation in psychiatry 2016 , 1-14		
53	Ethics of neuromodulation in psychiatry 2016 , 15-26		
52	Neuromodulation in psychiatry 2016 , 467-469		
51	Deep brain stimulation 2016 , 277-293		
50	Response to 'Cerebellum as a possible target for neuromodulation after stroke'. <i>Brain Stimulation</i> , 2018 , 11, 1395-1396	5.1	
49	The future of deep brain stimulation 2014 , 150-163		
48	Deep brain stimulation for anorexia nervosa - authors' reply. <i>Lancet, The</i> , 2013 , 382, 306	4.0	
47	Implications of functional neurosurgery and deep-brain stimulation for free will and decision-making 191-204		
46	Deep brain stimulation targeting the fornix for mild Alzheimer dementia: design of the ADvance randomized controlled trial. <i>Open Access Journal of Clinical Trials</i> , 2015 , 63	1.5	
45	Deep Brain Stimulation for the Management of Treatment-Refractory Major Depressive Disorder 2015 , 95-104		
44	DT-01-05: Deep brain stimulation targeting the fornix for mild Alzheimer's disease: Initial results of the advance randomized controlled trial 2015 , 11, P332-P333		
43	Transforming Care Through Science: Evaluating the Impact and Implications of Neuromodulation in Psychiatric Populations. <i>AJOB Neuroscience</i> , 2012 , 3, 13-15	0.8	
42	Functional neurosurgery of movement disorders 36-43		

- 41 Neurogenic hippocampal targets of deep brain stimulation. *Journal of Comparative Neurology*, **2011**, 519, spc1-spc1 3.4
- 40 Surgical Therapy for Parkinson's Disease. *Blue Books of Neurology*, **2010**, 273-286
- 39 Right hemisphere language. *Journal of Neurosurgery*, **2011**, 114, 891-2; discussion 892 3.2
- 38 Cell-based therapy for Parkinson disease. *Neurosurgical Focus*, **2008**, 24, E7; discussion E7 4.2
- 37 Reply: The variability of levodopa response in Parkinson's disease: Is sensitization reversible?. *Movement Disorders*, **2008**, 23, 925-925 7
- 36 Intraoperative recording of the very fast oscillatory activities evoked by median nerve stimulation in the human thalamus. *Supplements To Clinical Neurophysiology*, **2006**, 59, 121-6
- 35 Neurosurgical Considerations in the Treatment of Dystonia. *Contemporary Neurosurgery*, **2006**, 28, 1-5 0.2
- 34 Stereotactic Ablative Procedures for Pain Relief. *Seminars in Neurosurgery*, **2004**, 15, 195-202
- 33 Neurosurgery for Chronic Neuropathic Pain. *Pain Research and Management*, **2000**, 5, 101-106 2.6
- 32 Thalamic stimulation and functional magnetic resonance imaging: localization of cortical and subcortical activation with implanted electrodes. *Neurosurgical Focus*, **1999**, 6, E4 4.2
- 31 Magnetically Guided Catheters, Micro- and Nanorobots for Spinal Cord Stimulation. *Frontiers in Neurorobotics*, **2021**, 15, 749024 3.4
- 30 Alterations in Globus Pallidus Internus Firing Patterns are Associated with Different Movement Disorders **2005**, 389-396
- 29 Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. *Neurology: Clinical Practice*, **2021**, 11, e497-e503 1.7
- 28 Multicenter Validation of Individual Preoperative Motor Outcome Prediction for Deep Brain Stimulation in Parkinson's Disease. *Stereotactic and Functional Neurosurgery*, **2021**, 1-9 1.6
- 27 Thalamic Surgery for Tremor **2001**, 327-332
- 26 Responses of Neurons in Subthalamic Nucleus During Sequential Reaching in Patients with Parkinson's Disease. *Advances in Behavioral Biology*, **2002**, 603-610
- 25 Pathophysiology of the Internal Segment of the Globus Pallidus in Parkinson's Disease. *Advances in Behavioral Biology*, **2002**, 15-21
- 24 Effects of High Frequency Stimulation in the Subthalamic Nucleus on Neuronal Firing in Parkinson's Disease Patients. *Advances in Behavioral Biology*, **2002**, 563-571

- 23 Surgical Treatment for Dyskinesias. *Advances in Behavioral Biology*, **2002**, 435-440
- 22 Acute Effects of Levodopa and Pallidotomy on Bimanual Repetitive Arm Movements in Patients with Parkinson's Disease. *Advances in Behavioral Biology*, **2002**, 43-50
- 21 Tiefe Hirnstimulation des anterioren Thalamus (AN) bei der pharmakoresistenten Epilepsie **2004**, 328-334
- 20 Deep Brain Stimulation for Neuropsychiatric Disorders **2016**, 499-516
- 19 Inhibition of Neuronal Firing in the Human Substantia Nigra Pars Reticulata in Response to High-Frequency Microstimulation Aids Localization of the Subthalamic Nucleus. *Advances in Behavioral Biology*, **2009**, 551-561
- 18 State-of-the-Art of Surgical Therapies for Psychiatric Disorders: Depression **2009**, 1514-1520
- 17 Anterior Nucleus DBS in Epilepsy **2009**, 2793-2800
- 16 Image-Guided Management of Brain Abscess **2009**, 769-777
- 15 Surgery for Non-Dopaminergic and Non-Motor Features of Parkinson's Disease **2009**, 409-415
- 14 Subcallosal Cingulate Cortex Deep Brain Stimulation for the Treatment of Refractory Mood Disorders: Evidence and Challenges **2012**, 71-79
- 13 Reply to: "Spinal Cord Stimulation for Parkinson's Disease: Dynamic Habituation as a Mechanism of Failure?". *Movement Disorders*, **2020**, 35, 1883
- 12 Nuclear medicine in neuromodulation **2016**, 81-99
- 11 Deep brain stimulation for the treatment of obsessive-compulsive disorder **2016**, 295-307
- 10 Radiofrequency lesions **2016**, 385-398
- 9 Deep brain stimulation **2016**, 309-324
- 8 Ablative procedures in psychiatric neurosurgery **2016**, 399-427
- 7 Repetitive transcranial magnetic stimulation for psychiatric disorders other than depression **2016**, 181-201
- 6 Deep brain stimulation **2016**, 245-275

5	Impact of Mesial Temporal Lobe Resection on Brain Structure in Medically Refractory Epilepsy. <i>World Neurosurgery</i> , 2021 , 152, e652-e665	2.1
4	Effect of Public Interest in Magnetic Resonance Imaging-Guided Focused Ultrasound on Enrolment for Deep Brain Stimulation.. <i>Movement Disorders</i> , 2022 ,	7
3	Posteroventral medial pallidotomy in Parkinson's disease. <i>Journal of Neurology</i> , 1999 , 246, s028-s041	5.5
2	Synaptic stimulation induces tau clearance by enhancing autophagosomal/lysosomal degradation.. <i>Alzheimer's and Dementia</i> , 2021 , 17 Suppl 3, e051678	1.2
1	A Cautionary Tale of Magnetic Resonance-Guided Focused Ultrasound Thalamotomy-Induced White Matter Lesions. <i>Movement Disorders</i> ,	7