History, Applications, and Mechanisms of Deep Brain St

JAMA Neurology

70, 163

DOI: 10.1001/2013.jamaneurol.45

Citation Report

#	Article	IF	Citations
1	Indicators of Central Fever in the Neurologic Intensive Care Unit. JAMA Neurology, 2013, 70, 1499-504.	4.5	55
2	Cell transplantation in the damaged adult brain. Revue Neurologique, 2013, 169, 838-843.	0.6	3
3	Twenty-Five Years of Progress: The View from NIMH and NINDS. Neuron, 2013, 80, 561-567.	3.8	73
4	Uneven benefits of subthalamic nucleus deep brain stimulation in Parkinson's diseaseâ€"A 7-year cross-sectional study. Tzu Chi Medical Journal, 2013, 25, 239-245.	0.4	2
5	Neurostimulation in PDâ€"benefit of early surgery revealed. Nature Reviews Neurology, 2013, 9, 244-245.	4.9	2
6	Learned regulation of brain metabolism. Trends in Cognitive Sciences, 2013, 17, 295-302.	4.0	195
8	Deep brain stimulation: a mechanistic and clinical update. Neurosurgical Focus, 2013, 35, E1.	1.0	45
9	Deep brain stimulation: Lessons learned in 25 years and future ahead. Neurology India, 2013, 61, 345.	0.2	5
10	Deep brain stimulation for ParkinsonÊ¼s disease and other movement disorders. Current Opinion in Neurology, 2013, 26, 374-380.	1.8	96
11	Optogenetics, physiology, and emotions. Frontiers in Behavioral Neuroscience, 2013, 7, 169.	1.0	23
12	Pallidal Deep Brain Stimulation Modulates Afferent Fibers, Efferent Fibers, and Glia. Journal of Neuroscience, 2013, 33, 9873-9875.	1.7	6
14	Deep brain stimulation: mechanism, surgical procedure, and clinical applications. Journal of the Korean Medical Association, 2013, 56, 695.	0.1	5
15	Dopamine Replacement Therapy and Deep Brain Stimulation of the Subthalamic Nuclei Induce Modulation of Emotional Processes at Different Spatial Frequencies in Parkinson's Disease. Journal of Parkinson's Disease, 2014, 4, 97-110.	1.5	9
16	Advances in Microelectronics for Implantable Medical Devices. Advances in Electronics, 2014, 2014, 1-21.	1.9	19
17	A neurochemical closed-loop controller for deep brain stimulation: toward individualized smart neuromodulation therapies. Frontiers in Neuroscience, 2014, 8, 169.	1.4	115
18	Clinical utility of implantable neurostimulation devices as adjunctive treatment of uncontrolled seizures. Neuropsychiatric Disease and Treatment, 2014, 10, 2191.	1.0	17
19	Deep Brain Stimulation (DBS) : Current and Emerging Applications. Japanese Journal of Neurosurgery, 2014, 23, 648-660.	0.0	5
20	Stimulating the Self and Conceptual Frameworks: Brain Matters, and World-Views Are Deeply Rooted. AJOB Neuroscience, 2014, 5, 44-46.	0.6	0

#	Article	IF	Citations
21	Deep Brain Stimulation: Technology and Applications (Volume 1). , 2014, , .		0
22	l-DOPA-induced behavioral sensitization of motor activity in the MPTP-treated common marmoset as a Parkinson's disease model. Pharmacology Biochemistry and Behavior, 2014, 127, 62-69.	1.3	10
23	Freezing of gait in Parkinson's disease: Current treatments and the potential role for cognitive training. Restorative Neurology and Neuroscience, 2014, 32, 411-422.	0.4	41
24	Rationale and Clinical Pearls for Primary Care Doctors Referring Patients for Deep Brain Stimulation. Gerontology, 2014, 60, 38-48.	1.4	12
25	Deep Brain Stimulation: A Principled and Pragmatic Approach to Understanding the Ethical and Clinical Challenges of an Evolving Technology. Current Topics in Behavioral Neurosciences, 2014, 19, 243-263.	0.8	3
26	Stimulating Good Practice: What an EEC Approach Could Actually Mean for DBS Practice. AJOB Neuroscience, 2014, 5, 46-48.	0.6	5
27	Cortical Effects of Deep Brain Stimulation. JAMA Neurology, 2014, 71, 100.	4.5	56
28	Beyond the Basal Ganglia. JAMA Neurology, 2014, 71, 8.	4.5	4
29	Medicare Coverage of Investigational Devices. JAMA Neurology, 2014, 71, 535.	4.5	7
30	A brief perspective on neural cell therapy. Molecular and Cellular Therapies, 2014, 2, 2.	0.2	1
31	Deep brain stimulation for dystonia. Translational Neurodegeneration, 2014, 3, 2.	3.6	29
32	Update on Treatments for Dystonia. Current Neurology and Neuroscience Reports, 2014, 14, 454.	2.0	5
33	Mechanisms of deep brain stimulation for essential tremor. Brain, 2014, 137, 4-6.	3.7	18
35	Acute Changes in Mood Induced by Subthalamic Deep Brain Stimulation in Parkinson Disease Are Modulated by Psychiatric Diagnosis. Brain Stimulation, 2014, 7, 701-708.	0.7	21
36	Deep Brain Stimulation of the Human Reward System for Major Depressionâ€"Rationale, Outcomes and Outlook. Neuropsychopharmacology, 2014, 39, 1303-1314.	2.8	126
37	Which target is best for patients with Parkinson's disease? A meta-analysis of pallidal and subthalamic stimulation. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 982-986.	0.9	59
38	Meta-analysis comparing deep brain stimulation of the globus pallidus and subthalamic nucleus to treat advanced Parkinson disease. Journal of Neurosurgery, 2014, 121, 709-718.	0.9	95
39	Electrical Stimuli in the Central Nervous System Microenvironment. Annual Review of Biomedical Engineering, 2014, 16, 397-430.	5.7	86

#	Article	IF	Citations
40	Dyskinesia in Parkinson's disease: mechanisms and current nonâ€pharmacological interventions. Journal of Neurochemistry, 2014, 130, 472-489.	2.1	66
41	Brain Implants for Substituting Lost Motor Function: State of the Art and Potential Impact on the Lives of Motor-Impaired Seniors. Gerontology, 2014, 60, 366-372.	1.4	6
42	The variability of atlas-based targets in relation to surrounding major fibre tracts in thalamic deep brain stimulation. Acta Neurochirurgica, 2014, 156, 1497-1504.	0.9	52
43	Delivery of definitive dose external beam radiation in close proximity to an implanted deep brain stimulator. Practical Radiation Oncology, 2014, 4, 294-297.	1.1	4
45	Track E. Biomedizinische Technik, 2014, 59, s326-84.	0.9	0
46	Estimating the Proportion of Essential Tremor and Parkinson's Disease Patients Undergoing Deep Brain Stimulation Surgery: Fiveâ€Year Data From Columbia University Medical Center (2009â€“2014). Movement Disorders Clinical Practice, 2015, 2, 384-387.	0.8	32
47	Thalamotomy-Like Effects From Partial Removal of a Ventral Intermediate Nucleus Deep Brain Stimulator Lead in a Patient With Essential Tremor. Neurosurgery, 2015, 77, E831-E837.	0.6	4
48	Functional Neurosurgery. International Anesthesiology Clinics, 2015, 53, 39-52.	0.3	12
49	Continuous High-Frequency Stimulation of the Subthalamic Nucleus Improves Cell Survival and Functional Recovery Following Dopaminergic Cell Transplantation in Rodents. Neurorehabilitation and Neural Repair, 2015, 29, 1001-1012.	1.4	11
50	Long-term detection of Parkinsonian tremor activity from subthalamic nucleus local field potentials. , 2015, 2015, 3427-31.		9
51	A figure of merit for neural electrical stimulation circuits. , 2015, 2015, 2075-8.		4
52	The medial forebrain bundle as a deep brain stimulation target for treatment resistant depression: A review of published data. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 58, 59-70.	2.5	39
54	Refining deep brain stimulation to emulate optogenetic treatment of synaptic pathology. Science, 2015, 347, 659-664.	6.0	240
55	PEDOTâ€“CNT coated electrodes stimulate retinal neurons at low voltage amplitudes and low charge densities. Journal of Neural Engineering, 2015, 12, 016014.	1.8	71
56	Neurostimulation in Alzheimerâ€™s disease: from basic research to clinical applications. Neurological Sciences, 2015, 36, 689-700.	0.9	32
57	Current and emerging strategies for treatment of childhood dystonia. Journal of Hand Therapy, 2015, 28, 185-194.	0.7	29
58	Successful implantation of a subcutaneous cardiac defibrillator in a patient with a preexisting deep brain stimulator. HeartRhythm Case Reports, 2015, 1, 241-244.	0.2	6
59	Computational modeling of neurostimulation in brain diseases. Progress in Brain Research, 2015, 222, 191-228.	0.9	30

#	Article	IF	Citations
60	Functional Surgery: From Lesioning to Deep Brain Stimulation and Beyond. , 2015, , 955-964.		1
61	An Innovative Lab-Based Training Program to Help Patient Groups Understand Their Disease and the Research Process. PLoS Biology, 2015, 13, e1002067.	2.6	1
62	Signal features of surface electromyography in advanced Parkinsonâ€™s disease during different settings of deep brain stimulation. Clinical Neurophysiology, 2015, 126, 2290-2298.	0.7	26
63	Stimulation of the medial septum should benefit patients with temporal lobe epilepsy. Medical Hypotheses, 2015, 84, 543-550.	0.8	26
64	Cellular mechanisms of deep brain stimulation: activity-dependent focal circuit reprogramming?. Current Opinion in Behavioral Sciences, 2015, 4, 48-55.	2.0	18
65	Observation and Modeling of Deep Brain Stimulation Electrode Depth in the Pallidal Target of the Developing Brain. World Neurosurgery, 2015, 83, 438-446.	0.7	17
66	Deep Brain Stimulation for Essential Tremor: Targeting the Dentato-Rubro-Thalamic Tract?. Neuromodulation, 2015, 18, 105-112.	0.4	87
67	Resting-state functional magnetic resonance imaging of the subthalamic microlesion and stimulation effects in Parkinson's disease: Indications of a principal role of the brainstem. NeuroImage: Clinical, 2015, 9, 264-274.	1.4	46
68	Network effects of deep brain stimulation. Journal of Neurophysiology, 2015, 114, 2105-2117.	0.9	58
69	Electrical stimulation of the medial forebrain bundle in pre-clinical studies of psychiatric disorders. Neuroscience and Biobehavioral Reviews, 2015, 49, 32-42.	2.9	37
70	Pediatric Tone Management. Physical Medicine and Rehabilitation Clinics of North America, 2015, 26, 69-78.	0.7	17
71	Genetic Counseling for Adult Neurogenetic Disease. , 2015, , .		1
72	The Role of Ultra-High Field Magnetic Resonance Imaging for Track Density Imaging: Application in Neuromodulation of the Brain. World Neurosurgery, 2015, 83, 4-6.	0.7	2
73	Engineering the Next Generation of Clinical Deep Brain Stimulation Technology. Brain Stimulation, 2015, 8, 21-26.	0.7	56
74	Deep Brain Stimulation for Neurological Disorders. , 2015, , .		6
76	An Object-Oriented Framework for Versatile Finite Element Based Simulations of Neurostimulation. Journal of Computational Medicine, 2016, 2016, 1-15.	0.3	6
77	Differential Modulation of Excitatory and Inhibitory Neurons during Periodic Stimulation. Frontiers in Neuroscience, 2016, 10, 62.	1.4	26
78	Deep Brain Stimulation in Huntingtonâ€™s Diseaseâ€”Preliminary Evidence on Pathophysiology, Efficacy and Safety. Brain Sciences, 2016, 6, 38.	1.1	36

#	Article	IF	Citations
79	Deep-brain stimulation of the globus pallidus internus in the management of Parkinson's disease. , 0, , 187-194.		0
80	A Remote and Wireless Deep Brain Stimulation Programming System. Neuromodulation, 2016, 19, 437-439.	0.4	18
81	Deep Brain Stimulation in a Case of Mitochondrial Disease. Movement Disorders Clinical Practice, 2016, 3, 139-145.	0.8	17
82	Current Topics in Deep Brain Stimulation for Parkinson Disease. Neurologia Medico-Chirurgica, 2016, 56, 613-625.	1.0	13
83	Lesch-Nyhan Syndrome: Models, Theories, and Therapies. Molecular Syndromology, 2016, 7, 302-311.	0.3	52
84	Chapter 21 Closed-Loop Control Systems for Deep Brain Stimulation Therapy. , 2016, , 389-414.		0
85	Chapter 17 Theories of Deep Brain Stimulation Mechanisms. , 2016, , 312-338.		0
86	Chapter 1 Overview of the History and Application of Deep Brain Stimulation. , 2016, , 1-24.		1
87	Chapter 2 Biophysical Fundamentals of Neural Excitation. , 2016, , 25-50.		0
88	Axon guidance molecule expression after cell therapy in a mouse model of Parkinsonâ€™s disease. Restorative Neurology and Neuroscience, 2016, 34, 877-895.	0.4	6
89	Personal responsibility in the age of user-controlled neuroprosthetics. , 2016, , .		3
90	Extra-cardiac stimulators: what do cardiologists need to know?. Europace, 2016, 18, 1299-1307.	0.7	14
91	Thalamic Visual Prosthesis. IEEE Transactions on Biomedical Engineering, 2016, 63, 1573-1580.	2.5	23
92	Closed-Loop Control of Tremor-Predominant Parkinsonian State Based on Parameter Estimation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1109-1121.	2.7	26
93	Advances in management of movement disorders in children. Lancet Neurology, The, 2016, 15, 719-735.	4.9	84
94	Biofouling resistance of boron-doped diamond neural stimulation electrodes is superior to titanium nitride electrodesin vivo. Journal of Neural Engineering, 2016, 13, 056011.	1.8	20
95	Thalamocortical network activity enables chronic tic detection in humans with Tourette syndrome. NeuroImage: Clinical, 2016, 12, 165-172.	1.4	69
96	Use of deep brain stimulation for major affective disorders. Experimental and Therapeutic Medicine, 2016, 12, 2371-2376.	0.8	4

#	Article	IF	Citations
97	Human Dignity of the Vulnerable in the Age of Rights. Ius Gentium, 2016, , .	0.1	5
98	Anesthesia for Deep Brain Stimulation. Current Anesthesiology Reports, 2016, 6, 233-243.	0.9	4
99	Effects of neurostimulation for advanced Parkinsonâ€™s disease patients on motor symptoms: A multiple-treatments meta-analysas of randomized controlled trials. Scientific Reports, 2016, 6, 25285.	1.6	34
100	Fabrication of biocompatible enclosures for an electronic implant using 3D printing. International Journal of Rapid Manufacturing, 2016, 6, 17.	0.5	3
101	A General Method for Evaluating Deep Brain Stimulation Effects on Intravenous Methamphetamine Self-Administration. Journal of Visualized Experiments, 2016, , e53266.	0.2	8
102	The Effect of General Anesthesia on the Microelectrode Recordings From Pallidal Neurons in Patients With Dystonia. Journal of Neurosurgical Anesthesiology, 2016, 28, 256-261.	0.6	20
103	Brain stimulation in Huntington's disease. Neurodegenerative Disease Management, 2016, 6, 223-236.	1.2	8
104	Different clinical course of pallidal deep brain stimulation for phasic- and tonic-type cervical dystonia. Acta Neurochirurgica, 2016, 158, 171-180.	0.9	31
105	Implantable neurotechnologies: a review of integrated circuit neural amplifiers. Medical and Biological Engineering and Computing, 2016, 54, 45-62.	1.6	69
106	Therapeutic rTMS in Neurology. , 2016, , .		2
107	Psychiatric Neurotherapeutics. , 2016, , .		6
108	Soft implantable microelectrodes for future medicine: prosthetics, neural signal recording and neuromodulation. Lab on A Chip, 2016, 16, 959-976.	3.1	96
109	Lateralization of the subthalamic nucleus with age in Parkinsonâ€™s disease. Basal Ganglia, 2016, 6, 83-88.	0.3	10
110	Influence of implantation on the electrochemical properties of smooth and porous TiN coatings for stimulation electrodes. Journal of Neural Engineering, 2016, 13, 026011.	1.8	9
111	White matter stimulation for the treatment of epilepsy. Seizure: the Journal of the British Epilepsy Association, 2016, 37, 28-31.	0.9	13
112	Clinical Applications of rTMS in Parkinsonâ€™s Disease. , 2016, , 129-145.		3
113	Spatiotemporal dynamics of cortical perfusion in response to thalamic deep brain stimulation. NeuroImage, 2016, 126, 131-139.	2.1	14
114	Seizing Control. Neuroscientist, 2017, 23, 68-81.	2.6	18

#	Article	IF	Citations
115	Feasibility of using linearly polarized rotating birdcage transmitters and close-fitting receive arrays in MRI to reduce SAR in the vicinity of deep brain simulation implants. Magnetic Resonance in Medicine, 2017, 77, 1701-1712.	1.9	70
116	A Method for Removal of Deep Brain Stimulation Artifact From Local Field Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2217-2226.	2.7	39
117	Deep Brain Stimulation for Parkinson Disease. , 2017, , 107-136.		0
119	Electrical stimulation and monitoring devices of the CNS: An imaging review. Journal of Neuroradiology, 2017, 44, 175-184.	0.6	11
120	A Primer on Neural Signal Processing. IEEE Circuits and Systems Magazine, 2017, 17, 33-50.	2.6	11
122	Ketamine induced converged synchronous gamma oscillations in the cortico-basal ganglia network of nonhuman primates. Journal of Neurophysiology, 2017, 118, 917-931.	0.9	24
123	Bibliometric profile of deep brain stimulation. British Journal of Neurosurgery, 2017, 31, 587-592.	0.4	14
124	Mild parkinsonian features in dystonia: Literature review, mechanisms and clinical perspectives. Parkinsonism and Related Disorders, 2017, 35, 1-7.	1.1	11
125	Current Practice and the Future of Deep Brain Stimulation Therapy in Parkinson's Disease. Seminars in Neurology, 2017, 37, 205-214.	0.5	24
126	Stimulating at the right time: phase-specific deep brain stimulation. Brain, 2017, 140, 132-145.	3.7	213
127	3-Tesla MRI in patients with fully implanted deep brain stimulation devices: a preliminary study in 10 patients. Journal of Neurosurgery, 2017, 127, 892-898.	0.9	30
128	Anesthesia considerations for patients with an implanted deep brain stimulator undergoing surgery: a review and update. Canadian Journal of Anaesthesia, 2017, 64, 308-319.	0.7	20
129	Reengineering deep brain stimulation for movement disorders: Emerging technologies. Current Opinion in Biomedical Engineering, 2017, 4, 97-105.	1.8	18
130	Modulation of hippocampal activity with fornix Deep Brain Stimulation. Brain Stimulation, 2017, 10, 1125-1132.	0.7	30
131	Uncovering the underlying mechanisms and whole-brain dynamics of deep brain stimulation for Parkinsonâ€™s disease. Scientific Reports, 2017, 7, 9882.	1.6	79
132	No implant needed. Nature Biomedical Engineering, 2017, 1, 632-633.	11.6	6
133	What Have We Learned About Movement Disorders from Functional Neurosurgery?. Annual Review of Neuroscience, 2017, 40, 453-477.	5.0	21
134	An implantable device for neuropsychiatric rehabilitation by chronic deep brain stimulation in freely moving rats. NeuroReport, 2017, 28, 128-133.	0.6	8

#	Article	IF	Citations
136	Glial responses to implanted electrodes in the brain. Nature Biomedical Engineering, 2017, 1, 862-877.	11.6	402
137	Deep Brain Stimulation therapies: A control-engineering perspective. , 2017, , .		6
138	Short-Term Adverse Outcomes After Deep Brain Stimulation Treatment in Patients with Parkinson Disease. World Neurosurgery, 2017, 98, 365-374.	0.7	16
139	Classification and Prediction of Clinical Improvement in Deep Brain Stimulation From Intraoperative Microelectrode Recordings. IEEE Transactions on Biomedical Engineering, 2017, 64, 1123-1130.	2.5	36
140	Subcortical roles in lexical task processing: Inferences from thalamic and subthalamic eventâ€related potentials. Human Brain Mapping, 2017, 38, 370-383.	1.9	13
141	Advances in closed-loop deep brain stimulation devices. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 79.	2.4	158
142	Sensory Processing in the Dorsolateral Striatum: The Contribution of Thalamostriatal Pathways. Frontiers in Systems Neuroscience, 2017, 11, 53.	1.2	53
143	Deep brain stimulation as a therapeutic option for obesity: A critical review. Obesity Research and Clinical Practice, 2018, 12, 260-269.	0.8	2
144	Motor learning in dystonia: distorted feedback results in distorted motor learning and information-seeking compensatory behaviour. International Journal of Rehabilitation Research, 2018, 41, 280-283.	0.7	0
145	Role of the Cortico-Subthalamic Hyperdirect Pathway in Deep Brain Stimulation for the Treatment of Parkinson Disease: A Diffusion Tensor Imaging Study. World Neurosurgery, 2018, 114, e1079-e1085.	0.7	29
146	Pluripotent stem cell-based therapy for Parkinsonâ€™s disease: Current status and future prospects. Progress in Neurobiology, 2018, 168, 1-20.	2.8	84
147	Movement Disorders and Deep Brain Stimulation in the Middle East. World Neurosurgery, 2018, 113, e314-e319.	0.7	2
148	Efficacy and Safety of Deep Brain Stimulation in Tourette Syndrome. JAMA Neurology, 2018, 75, 353.	4.5	186
149	Less is more â€“ Pulse width dependent therapeutic window in deep brain stimulation for essential tremor. Brain Stimulation, 2018, 11, 1132-1139.	0.7	39
150	Toward adaptive deep brain stimulation in Parkinson's disease: a review. Neurodegenerative Disease Management, 2018, 8, 115-136.	1.2	9
151	Systems approaches to optimizing deep brain stimulation therapies in Parkinsonâ€™s disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2018, 10, e1421.	6.6	17
152	Novel application of virtual reality in patient engagement for deep brainÂstimulation: A pilot study. Brain Stimulation, 2018, 11, 935-937.	0.7	29
153	Chronic multisite brain recordings from a totally implantable bidirectional neural interface: experience in 5 patients with Parkinson's disease. Journal of Neurosurgery, 2018, 128, 605-616.	0.9	110

#	Article	IF	Citations
154	Non-human primate models of PD to test novel therapies. Journal of Neural Transmission, 2018, 125, 291-324.	1.4	29
155	Stuttering treatment and brain research in adults: A still unfolding relationship. Journal of Fluency Disorders, 2018, 55, 106-119.	0.7	22
156	Chronic deep brain stimulation normalizes scalp EEG activity in isolated dystonia. Clinical Neurophysiology, 2018, 129, 368-376.	0.7	22
157	Deep brain stimulation for drugâ€resistant epilepsy. Epilepsia, 2018, 59, 273-290.	2.6	209
158	Ventral Intermediate Nucleus Versus Zona Incerta Region Deep Brain Stimulation in Essential Tremor. Movement Disorders Clinical Practice, 2018, 5, 75-82.	0.8	46
159	EstimulaciÃ³n cerebral profunda en enfermedad de Parkinson. Iatreia, 2018, 31, 262-273.	0.1	3
160	Enfermedad de Parkinson: fisiopatologÃa, diagnÃ³stico y tratamiento. Revista De La Universidad Industrial De Santander Salud, 2018, 50, 79-92.	0.0	7
161	Method for localizing intraoperative recordings from deep brain stimulation surgery using post-operative structural MRI. NeuroImage: Clinical, 2018, 20, 1123-1128.	1.4	1
162	Deep Brain Stimulation and Sleep-Wake Disturbances in Parkinson Disease: A Review. Frontiers in Neurology, 2018, 9, 697.	1.1	39
163	Nanoparticle-Mediated Upconversion of Near-Infrared Light: A Step Closer to Optogenetic Neuromodulation in Humans. Stereotactic and Functional Neurosurgery, 2018, 96, 270-271.	0.8	2
164	Risk stratification in deep brain stimulation surgery: Development of an algorithm to predict patient discharge disposition with 91.9% accuracy. Journal of Clinical Neuroscience, 2018, 57, 26-32.	0.8	3
165	Neuropsychological consequences of pallidal deep brain stimulation altering brain networks. Journal of Clinical Neuroscience, 2018, 54, 50-56.	0.8	12
166	Organic Conductive Fibers as Nonmetallic Electrodes and Neural Interconnects. Industrial & Engineering Chemistry Research, 2018, 57, 7866-7871.	1.8	12
167	Die Tiefe Hirnstimulation bei medikamentÃ¶s therapieschwieriger Epilepsie. Neurophysiologie-Labor, 2018, 40, 189-198.	0.0	0
168	Functional Brain Surgery (Stereotactic Surgery, Deep Brain Stimulation). , 2018, , 589-596.		0
169	Lateral Cerebellar Nucleus Stimulation has Selective Effects on Glutamatergic and GABAergic Perilesional Neurogenesis After Cortical Ischemia in the Rodent Model. Neurosurgery, 2018, 83, 1057-1067.	0.6	15
170	Forniceal deep brain stimulation induces gene expression and splicing changes that promote neurogenesis and plasticity. ELife, 2018, 7, .	2.8	39
171	Anesthesia for Stereotactic and Other Functional Neurosurgery. , 0, , 152-157.		0

#	Article	IF	Citations
172	Closing the Loop on Deep Brain Stimulation for Treatment-Resistant Depression. Focus (American) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	3
173	Brain Stimulation in Alzheimer's Disease. Frontiers in Psychiatry, 2018, 9, 201.	1.3	98
174	Functional Connectivity-Based Modelling Simulates Subject-Specific Network Spreading Effects of Focal Brain Stimulation. Neuroscience Bulletin, 2018, 34, 921-938.	1.5	11
175	Deep brain stimulation of the cerebellum for poststroke motor rehabilitation: from laboratory to clinical trial. Neurosurgical Focus, 2018, 45, E13.	1.0	44
176	Toward adaptive deep brain stimulation for dystonia. Neurosurgical Focus, 2018, 45, E3.	1.0	38
177	Opening the debate on deep brain stimulation for Alzheimer disease â€“ a critical evaluation of rationale, shortcomings, and ethical justification. BMC Medical Ethics, 2018, 19, 41.	1.0	15
178	Closing the Loop on Deep Brain Stimulation for Treatment-Resistant Depression. Frontiers in Neuroscience, 2018, 12, 175.	1.4	107
179	Deep Brain Stimulation and L-DOPA Therapy: Concepts of Action and Clinical Applications in Parkinson's Disease. Frontiers in Neurology, 2018, 9, 711.	1.1	64
180	Experience Reduces Surgical and Hardware-Related Complications of Deep Brain Stimulation Surgery: A Single-Center Study of 181 Patients Operated in Six Years. Parkinson's Disease, 2018, 2018, 1-7.	0.6	21
181	Photoelectric Dye-Coupled Polyethylene Film: Photoresponsive Properties Evaluated by Kelvin Probe and <i>In Vitro</i> Biological Response Detected in Dystrophic Retinal Tissue of Rats. Advanced Biomedical Engineering, 2019, 8, 137-144.	0.4	6
182	Intraoperative microelectrode recording in Parkinson's disease subthalamic deep brain stimulation: Analysis of clinical utility. Journal of Clinical Neuroscience, 2019, 69, 104-108.	0.8	8
183	Clinical neuroprosthetics: Today and tomorrow. Journal of Clinical Neuroscience, 2019, 68, 13-19.	0.8	13
184	Neural responses to electrical stimulation in 2D and 3D in vitro environments. Brain Research Bulletin, 2019, 152, 265-284.	1.4	43
185	Applying a Sensing-Enabled System for Ensuring Safe Anterior Cingulate Deep Brain Stimulation for Pain. Brain Sciences, 2019, 9, 150.	1.1	16
186	Implantable Electronic Stimulation Devices from Head to Sacrum: Imaging Features and Functions. Radiographics, 2019, 39, 1056-1074.	1.4	23
187	Photobiomodulation therapy and the brain: an innovative tool for therapy and discovery. , 2019, , 3-7.		0
188	Ethical Challenges of Risk, Informed Consent, and Posttrial Responsibilities in Human Research With Neural Devices. JAMA Neurology, 2019, 76, 1506.	4.5	55
189	Magnetic Actuation of Flexible Microelectrode Arrays for Neural Activity Recordings. Nano Letters, 2019, 19, 8032-8039.	4.5	24

#	Article	IF	Citations
190	Characterization of pallidocortical motor network in Parkinsonâ€™s disease through complex network analysis. Journal of Neural Engineering, 2019, 16, 066034.	1.8	5
191	A simulated environment for early development stages of reinforcement learning algorithms for closed-loop deep brain stimulation. , 2019, 2019, 2900-2904.		3
192	Precision electronic medicine in the brain. Nature Biotechnology, 2019, 37, 1007-1012.	9.4	62
193	Recent Advances in Neurosurgery. Medical Journal of Shree Birendra Hospital, 2019, 18, 69-72.	0.0	0
194	Deep Brain Stimulation for Epilepsy: Biomarkers for Optimization. Current Treatment Options in Neurology, 2019, 21, 47.	0.7	26
195	3T MRI Whole-Brain Microscopy Discrimination of Subcortical Anatomy, Part 2: Basal Forebrain. American Journal of Neuroradiology, 2019, 40, 1095-1105.	1.2	18
196	Neuroimaging Technological Advancements for Targeting in Functional Neurosurgery. Current Neurology and Neuroscience Reports, 2019, 19, 42.	2.0	29
197	Quantitatively validating the efficacy of artifact suppression techniques to study the cortical consequences of deep brain stimulation with magnetoencephalography. NeuroImage, 2019, 199, 366-374.	2.1	12
198	Microelectrode array electrical impedance tomography for fast functional imaging in the thalamus. NeuroImage, 2019, 198, 44-52.	2.1	9
199	Transcranial Magneto-Acoustic Stimulation Improves Neuroplasticity in Hippocampus of Parkinson's Disease Model Mice. Neurotherapeutics, 2019, 16, 1210-1224.	2.1	14
200	Deep Brain Stimulation for Obesity: A Review and Future Directions. Frontiers in Neuroscience, 2019, 13, 323.	1.4	35
201	Deep Brain Stimulation for the Treatment of Movement Disorder Regarding Parkinsonâ€™s Disease and Essential Tremor with Device Characterization. Smart Sensors, Measurement and Instrumentation, 2019, , 37-51.	0.4	4
202	Novel electrode technologies for neural recordings. Nature Reviews Neuroscience, 2019, 20, 330-345.	4.9	436
203	Electrode Reconstruction Assists Postoperative Contact Selection in Deep Brain Stimulation. World Neurosurgery, 2019, 125, e442-e447.	0.7	7
204	Wearable and Wireless Systems for Healthcare II. Smart Sensors, Measurement and Instrumentation, 2019, , .	0.4	6
205	Electromagnetic Brain Stimulation in Patients With Disorders of Consciousness. Frontiers in Neuroscience, 2019, 13, 223.	1.4	44
206	Leaky Optoelectrical Fiber for Optogenetic Stimulation and Electrochemical Detection of Dopamine Exocytosis from Human Dopaminergic Neurons. Advanced Science, 2019, 6, 1902011.	5.6	23
207	Sinusoidal stimulation on afferent fibers can selectively activate different types of neurons in rat hippocampus. , 2019, 2019, 6880-6883.		0

#	Article	IF	Citations
208	Brain Structure and Connectivity Mapping for Deep Brain Stimulation Using Ultrahigh Field (7 T) MRI. , 2019, , 437-461.		0
209	Closed-Loop Neuromodulation: Listen to the Body. World Neurosurgery, 2019, 122, 415-416.	0.7	7
210	Long-term outcomes following deep brain stimulation for Parkinsonâ€™s disease. Journal of Neurosurgery, 2020, 132, 205-210.	0.9	37
211	Investigating Risk Factors and Predicting Complications in Deep Brain Stimulation Surgery with Machine Learning Algorithms. World Neurosurgery, 2020, 134, e325-e338.	0.7	38
212	Clinical Efficacy of Bilateral Deep Brain Stimulation Does Not Change After Implantable Pulse Generator Replacement but the Impedances Do: A Prospective Study. Neuromodulation, 2020, 23, 530-536.	0.4	2
213	Stimulation-induced side effects after deep brain stimulation â€“ a systematic review. Acta Neuropsychiatrica, 2020, 32, 57-64.	1.0	42
214	Surgical Tone Reduction in Cerebral Palsy. Physical Medicine and Rehabilitation Clinics of North America, 2020, 31, 91-105.	0.7	6
215	Parametric evaluation of deep brain stimulation parameter configurations for Parkinsonâ€™s disease using a conformal wearable and wireless inertial sensor system and machine learning. , 2020, 2020, 3606-3611.		13
216	Effectiveness and safety of neuroablation for severe and treatment-resistant obsessiveâ€“compulsive disorder: a systematic review and meta-analysis. Journal of Psychiatry and Neuroscience, 2020, 45, 356-369.	1.4	17
217	Advanced Electrical and Optical Microsystems for Biointerfacing. Advanced Intelligent Systems, 2020, 2, 2000091.	3.3	16
218	Deep Brain Stimulation Surgery for Essential Tremor in a Patient with Type A Hemophilia. World Neurosurgery, 2020, 139, 158-162.	0.7	3
219	Neurons under genetic control: What are the next steps towards the treatment of movement disorders?. Computational and Structural Biotechnology Journal, 2020, 18, 3577-3589.	1.9	2
220	Development of a Non-invasive Deep Brain Stimulator With Precise Positioning and Real-Time Monitoring of Bioimpedance. Frontiers in Neuroinformatics, 2020, 14, 574189.	1.3	11
221	Targeting neuroplasticity in patients with neurodegenerative diseases using brain stimulation techniques. Translational Neurodegeneration, 2020, 9, 44.	3.6	14
222	Recent advances in neural interfacesâ€”Materials chemistry to clinical translation. MRS Bulletin, 2020, 45, 655-668.	1.7	29
223	Acute effects of adaptive Deep Brain Stimulation in Parkinsonâ€™s disease. Brain Stimulation, 2020, 13, 1507-1516.	0.7	45
224	Surgical Treatment of Parkinson's Disease: Devices and Lesion Approaches. Neurotherapeutics, 2020, 17, 1525-1538.	2.1	24
225	Evoked potentials reveal neural circuits engaged by human deep brain stimulation. Brain Stimulation, 2020, 13, 1706-1718.	0.7	39

#	Article	IF	Citations
226	Deep Brain Stimulation Is Effective for Treatment-Resistant Depression: A Meta-Analysis and Meta-Regression. Journal of Clinical Medicine, 2020, 9, 2796.	1.0	25
227	Neural Network-Based Closed-Loop Deep Brain Stimulation for Modulation of Pathological Oscillation in Parkinsonâ€™s Disease. IEEE Access, 2020, 8, 161067-161079.	2.6	15
228	On the Right Track to Treat Movement Disorders: Promising Therapeutic Approaches for Parkinsonâ€™s and Huntingtonâ€™s Disease. Frontiers in Aging Neuroscience, 2020, 12, 571185.	1.7	17
229	Neuromodulation in the Treatment of Alzheimerâ€™s Disease: Current and Emerging Approaches. Journal of Alzheimer's Disease, 2020, 78, 1299-1313.	1.2	7
230	Stem Cell-Based Therapies for Parkinson Disease. International Journal of Molecular Sciences, 2020, 21, 8060.	1.8	41
231	Deep brain stimulation in dystonia: State of art and future directions. Journal of Neuroscience Methods, 2020, 340, 108750.	1.3	11
232	Deep Brain Stimulation in Epilepsy: A Role for Modulation of the Mammillothalamic Tract in Seizure Control?. Neurosurgery, 2020, 87, 602-610.	0.6	53
233	Advanced MRI techniques for transcranial high intensity focused ultrasound targeting. Brain, 2020, 143, 2664-2672.	3.7	26
234	Emerging treatments for progressive myoclonus epilepsies. Expert Review of Neurotherapeutics, 2020, 20, 341-350.	1.4	11
235	Transcranial Magnetic Resonance Imaging-Guided Focused Ultrasound Treatment at 1.5 T: A Retrospective Study on Treatment- and Patient-Related Parameters Obtained From 52 Procedures. Frontiers in Physics, 2020, 7, .	1.0	9
236	Natural Killer Cell Alloreactivity Against Human Induced Pluripotent Stem Cells and Their Neuronal Derivatives into Dopaminergic Neurons. Stem Cells and Development, 2020, 29, 853-862.	1.1	5
237	Randomized cortical stimulation could ameliorate locomotive inability in Parkinsonian rats: a pilot study. Biomedical Physics and Engineering Express, 2020, 6, 027002.	0.6	1
238	Brain connectivity markers for the identification of effective contacts in subthalamic nucleus deep brain stimulation. Human Brain Mapping, 2020, 41, 2028-2036.	1.9	12
239	Deep Brain Stimulation of the Medial Forebrain Bundle in a Rodent Model of Depression: Exploring Dopaminergic Mechanisms with Raclopride and Micro-PET. Stereotactic and Functional Neurosurgery, 2020, 98, 8-20.	0.8	15
240	Deep brain stimulation of hypothalamus for narcolepsy-cataplexy in mice. Brain Stimulation, 2020, 13, 1305-1316.	0.7	6
241	Mapping tracts in the human subthalamic area by 11.7T ex vivo diffusion tensor imaging. Brain Structure and Function, 2020, 225, 1293-1312.	1.2	17
242	Secure medical treatment with deep learning on embedded board. , 2020, , 131-151.		5
243	Neurovascular coupling during deep brain stimulation. Brain Stimulation, 2020, 13, 916-927.	0.7	11

#	Article	IF	Citations
244	Reversal of hyperactive subthalamic circuits differentially mitigates pain hypersensitivity phenotypes in parkinsonian mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10045-10054.	3.3	31
245	Parkinsonâ€™s disease dystonia as a cause of respiratory distress and stridor. Canadian Journal of Respiratory, Critical Care, and Sleep Medicine, 2021, 5, 69-71.	0.2	1
246	Indication-based analysis of patient outcomes following deep brain stimulation surgery. Clinical Neurology and Neurosurgery, 2021, 200, 106372.	0.6	4
247	O-Arm Stereotactic Imaging in Deep Brain Stimulation Surgery Workflow: A Utility and Cost-Effectiveness Analysis. Stereotactic and Functional Neurosurgery, 2021, 99, 93-106.	0.8	14
248	The Child & Youth CompreHensIve Longitudinal Database for Deep Brain Stimulation (CHILD-DBS). Child's Nervous System, 2021, 37, 607-615.	0.6	10
249	Stimulationâ€Induced Dyskinesia After Subthalamic Nucleus Deep Brain Stimulation in Patients With Meige Syndrome. Neuromodulation, 2021, 24, 286-292.	0.4	8
250	Modern approaches of signal processing for bidirectional neural interfaces. , 2021, , 631-659.		0
251	Investigation of Artifacts and Optimization in Proton Resonance Frequency Thermometry Towards Heating Risk Monitoring of Implantable Medical Devices in Magnetic Resonance Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 3638-3646.	2.5	5
252	Anesthesia for Deep Brain Stimulation. , 2021, , 369-378.		0
253	Ambulatory surface electromyography with accelerometry for evaluating daily motor fluctuations in Parkinsonâ€™s disease. Clinical Neurophysiology, 2021, 132, 469-479.	0.7	4
254	Effects of Deep Brain Stimulation on Sleep-Wake Disturbances in Patients with Parkinson's Disease: A Narrative Review. Current Neuropharmacology, 2021, 19, 1716-1727.	1.4	4
255	Long term follow-up in advanced Parkinsonâ€™s disease treated with DBS of the subthalamic nucleus. Journal of Neurology, 2021, 268, 2821-2830.	1.8	15
256	Thalamic projections to the subthalamic nucleus contribute to movement initiation and rescue of parkinsonian symptoms. Science Advances, 2021, 7, .	4.7	40
257	Deep Brain Stimulation of the Subthalamic Nucleus in Parkinsonâ€™s Disease: A Meta-Analysis of Mood Effects. Neuropsychology Review, 2021, 31, 385-401.	2.5	19
258	Electroceutically induced subthalamic high-frequency oscillations and evoked compound activity may explain the mechanism of therapeutic stimulation in Parkinsonâ€™s disease. Communications Biology, 2021, 4, 393.	2.0	13
259	Deep Brain Stimulation for Alzheimer's Disease: Stimulation Parameters and Potential Mechanisms of Action. Frontiers in Aging Neuroscience, 2021, 13, 619543.	1.7	39
260	The Inhibitory Thermal Effects of Focused Ultrasound on an Identified, Single Motoneuron. ENeuro, 2021, 8, ENEURO.0514-20.2021.	0.9	10
261	Neuromodulation-Based Stem Cell Therapy in Brain Repair: Recent Advances and Future Perspectives. Neuroscience Bulletin, 2021, 37, 735-745.	1.5	12

#	Article	IF	Citations
262	Device profile of the percept PC deep brain stimulation system for the treatment of Parkinsonâ€™s disease and related disorders. Expert Review of Medical Devices, 2021, 18, 319-332.	1.4	64
265	Using cortical non-invasive neuromodulation as a potential preventive treatment in schizophrenia - A review. Brain Stimulation, 2021, 14, 643-651.	0.7	5
266	Multi-objective data-driven optimization for improving deep brain stimulation in Parkinsonâ€™s disease. Journal of Neural Engineering, 2021, 18, 046046.	1.8	20
267	Surgically treatable adult epilepsy: a changing patient population. Experience from a level 4 epilepsy center. Journal of Neurosurgery, 2021, 135, 1765-1770.	0.9	0
268	High-Frequency Deep Brain Stimulation of the Substantia Nigra Pars Reticulata Facilitates Extinction and Prevents Reinstatement of Methamphetamine-Induced Conditioned Place Preference. Frontiers in Pharmacology, 2021, 12, 705813.	1.6	8
269	Directions of Deep Brain Stimulation for Epilepsy and Parkinsonâ€™s Disease. Frontiers in Neuroscience, 2021, 15, 680938.	1.4	18
270	Dimensions of the Threat to the Self Posed by Deep Brain Stimulation: Personal Identity, Authenticity, and Autonomy. Diametros, 0, , 1-28.	0.3	2
271	Closing the loop of DBS using the beta oscillations in cortex. Cognitive Neurodynamics, 2021, 15, 1157-1167.	2.3	7
272	Deep Brain Stimulation Complications in Patients With Parkinsonâ€™s Disease and Surgical Modifications: A Single-Center Retrospective Analysis. Frontiers in Human Neuroscience, 2021, 15, 684895.	1.0	5
273	Charge injection capacity of ferroelectric microelectrodes for bioelectronic applications. AIP Advances, 2021, 11, .	0.6	6
274	Bilirubin: A Promising Therapy for Parkinsonâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 6223.	1.8	7
275	Head-mounted microendoscopic calcium imaging in dorsal premotor cortex of behaving rhesus macaque. Cell Reports, 2021, 35, 109239.	2.9	35
276	Managing Advanced Parkinson Disease. Journal of Geriatric Psychiatry and Neurology, 2021, 34, 289-300.	1.2	3
277	Altered Spontaneous Neural Activity and Functional Connectivity in Parkinsonâ€™s Disease With Subthalamic Microlesion. Frontiers in Neuroscience, 2021, 15, 699010.	1.4	9
278	Deep Brain Stimulation for Pediatric Dystonia. Seminars in Pediatric Neurology, 2021, 38, 100896.	1.0	13
279	Microfluidics embedded with microelectrodes for electrostimulation of neural stem cells proliferation. Chinese Chemical Letters, 2022, 33, 1308-1312.	4.8	2
280	Non-invasive and invasive brain stimulation in alcohol use disorders: A critical review of selected human evidence and methodological considerations to guide future research. Comprehensive Psychiatry, 2021, 109, 152257.	1.5	5
281	Brain MRI-guided focused ultrasound conceptualised as a tool for brain network intervention. Journal of Clinical Neuroscience, 2021, 90, 370-379.	0.8	3

#	Article	IF	Citations
282	Impact of deep brain stimulation surgery on speech and swallowing in patients with essential tremor. Clinical Archives of Communication Disorders, 2021, 6, 71-79.	0.3	0
283	High Frequency of Low-Virulent Microorganisms Detected by Sonication of Implanted Pulse Generators: So What?. Stereotactic and Functional Neurosurgery, 2022, 100, 8-13.	0.8	4
284	Î± and Î¸ oscillations in the subthalamic nucleus are potential biomarkers for Parkinson's disease with depressive symptoms. Parkinsonism and Related Disorders, 2021, 90, 98-104.	1.1	11
285	How neuropsychiatric comorbidity, modulatory indication, demographics, and other factors impact deep brain stimulation inpatient outcomes in the United States: A population-based study of 27,956 patients. Clinical Neurology and Neurosurgery, 2021, 208, 106842.	0.6	1
286	Stimulation and transient inactivation of ventral tegmental area modify reinstatement of acquisition phase of morphine-induced conditioned place preference in male rats. Brain Research Bulletin, 2021, 176, 130-141.	1.4	5
287	Investigating network effects of DBS with fMRI. , 2022, , 275-301.		4
288	Ethical Considerations in the Implantation of Neuromodulatory Devices. Neuromodulation, 2022, 25, 222-231.	0.4	16
289	Surgical treatment of Parkinson disease and other movement disorders. , 2021, , 204-233.e18.		0
290	Deep Brain Stimulation for Obsessive-Compulsive Disorder and Major Depressive Disorder. , 2016, , 141-163.		5
291	Modulation of CNS Functions by Deep Brain Stimulation: Insights Provided byÂMolecular Imaging. , 2021, , 1177-1244.		3
292	Neuroelectric Correlates of Human Sexuality: A Review and Meta-Analysis. Archives of Sexual Behavior, 2023, 52, 497-596.	1.2	15
293	Neuronal Network Involvement in Stimulation Therapies for CNS Disorders. , 2014, , 429-442.		1
294	Deep brain stimulation of the nucleus accumbens for treatment-refractory anorexia nervosa: A long-term follow-up study. Brain Stimulation, 2020, 13, 643-649.	0.7	35
295	Neurostimulation Devices for the Treatment of Neurologic Disorders. Mayo Clinic Proceedings, 2017, 92, 1427-1444.	1.4	136
296	Deep brain stimulation: a review of the open neural engineering challenges. Journal of Neural Engineering, 2020, 17, 051002.	1.8	50
298	Regularizing firing patterns of rat subthalamic neurons ameliorates parkinsonian motor deficits. Journal of Clinical Investigation, 2018, 128, 5413-5427.	3.9	33
299	Assessment of Potential Targets for Deep Brain Stimulation in Patients With Alzheimerâ€™s Disease. Journal of Clinical Medicine Research, 2015, 7, 501-505.	0.6	16
300	Epitranscriptome of the ventral tegmental area in a deep brain-stimulated chronic unpredictable mild stress mouse model. Translational Neuroscience, 2020, 11, 402-418.	0.7	8

#	Article	IF	Citations
301	Target-specific deep brain stimulation of the ventral capsule/ventral striatum for the treatment of neuropsychiatric disease. Annals of Translational Medicine, 2017, 5, 402-402.	0.7	8
303	Deep Brain Stimulation for Tremor and Dystonia. Neurology India, 2020, 68, 187.	0.2	7
304	Comparing deep brain stimulation in the ventral intermediate nucleus versus the posterior subthalamic area in essential tremor patients. , 2018, 9, 244.		8
305	Preliminary Network Centric Therapy for Machine Learning Classification of Deep Brain Stimulation Status for the Treatment of Parkinsonâ€™s Disease with a Conformal Wearable and Wireless Inertial Sensor. Advances in Parkinson S Disease, 2019, 08, 75-91.	0.2	4
306	Distinction of an Assortment of Deep Brain Stimulation Parameter Configurations for Treating Parkinsonâ€™s Disease Using Machine Learning with Quantification of Tremor Response through a Conformal Wearable and Wireless Inertial Sensor. Advances in Parkinson S Disease, 2020, 09, 21-39.	0.2	3
307	Structure-function similarities in deep brain stimulation targets cross-species. Neuroscience and Biobehavioral Reviews, 2021, 131, 1127-1135.	2.9	0
308	Parkinsonâ€™s Disease and Deep Brain Stimulation. , 2013, , 1-10.		0
310	Parkinsonâ€™s Disease: Deep Brain Stimulation. , 2014, , 1-10.		0
311	Neuroradiology, Anesthesia, Bioengineering, and Hardware Programming in the Clinical Applications of Deep Brain Stimulation. Cureus, 2014, , .	0.2	0
312	Deep Brain Stimulation for Essential Tremor. , 2015, , 135-155.		1
313	Deep Brain Stimulation for Parkinsonâ€™s Disease: Historical and Neuroethical Aspects. , 2015, , 561-587.		4
315	Diepe hersenstimulatie bij dystonie. , 2016, , 103-110.		0
316	A Miniaturized Optical System for Monitoring Cerebrovascular Perfusion during Deep Brain Stimulation. , 2016, , .		0
317	Biotechnologies Inside the Self: New Challenges in Clinical Ontology. Ius Gentium, 2016, , 123-140.	0.1	3
319	A Lightweight, Head-Mounted Optical System for Monitoring Cerebrovascular Perfusion during Deep Brain Stimulation. , 2017, , .		1
320	TCI and TIVA for Neurosurgery: Considerations and Techniques. , 2017, , 561-569.		0
323	Parkinsonâ€™s Disease: Deep Brain Stimulation. , 2018, , 1-12.		0
324	Hemodynamic monitoring in different cortical layers with a single fiber optical system. , 2018, , .		2

#	Article	IF	Citations
325	Model-based correction for brain shift in deep brain stimulation burr hole procedures: a comparison using interventional magnetic resonance imaging. , 2018, , .		1
326	Gupta and Gelb's Essentials of Neuroanesthesia and Neurointensive Care. , 2018, , .		1
328	Globus Pallidus Interna Deep Brain Stimulation: Practical Guide to Placement with Microelectrode Recording. , 2019, , 47-53.		0
329	Analysis and Usefulness of Microelectrode Recording during Deep Brain Stimulation Surgery in Movement Disorders. Korean Journal of Clinical Laboratory Science, 2019, 51, 468-474.	0.1	0
330	Anaesthesia for Deep Brain Stimulation Surgery. , 2020, , 77-91.		0
331	Deep Brain Stimulation: Emerging Technologies and Applications. , 2020, , 223-243.		1
332	ROLE OF REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION IN TREATMENT OF COGNITIVE MANIFESTATIONS IN PARKINSON'S DISEASE. Ain Shams Medical Journal, 2020, 71, 281-292.	0.0	0
333	Distributed Neural Interfaces: Challenges and Trends in Scaling Implantable Technology. , 2021, , 1-37.		2
334	A machine learning approach to support deep brain stimulation programming. Revista Facultad De IngenierÃa, 2019, , 20-33.	0.5	1
335	Small steps and larger strides in understanding the neural bases of crawling in the medicinal leech. , 2020, , 31-55.		1
336	Management of Patient with Parkinsonâ€™s Disease (DBS). , 2020, , 351-358.		0
338	Controlling Alzheimerâ€™s Disease Through the Deep Brain Stimulation to Thalamic Relay Cells. Frontiers in Computational Neuroscience, 2021, 15, 636770.	1.2	1
339	Therapeutic maps for a sensor-based evaluation of deep brain stimulation programming. Biomedizinische Technik, 2021, 66, 603-611.	0.9	0
342	Dual Pallidal and Thalamic Deep Brain Stimulation for Complex Ipsilateral Dystonia. Yonsei Medical Journal, 2022, 63, 166.	0.9	1
343	Ultrasound Neurostimulation in Mice: Impact of Ultrasound Settings and Beam Properties. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1053-1063.	1.7	3
344	Methodological Considerations for Setting Up Deep Brain Stimulation Studies for New Indications. Journal of Clinical Medicine, 2022, 11, 696.	1.0	1
345	Bilateral Anterior Capsulotomy for the Treatment of Refractory Somatic Symptom Disorder: A Case Report. Frontiers in Integrative Neuroscience, 2021, 15, 721833.	1.0	1
346	An open-label prospective pilot trial of nucleus accumbens deep brain stimulation for children with autism spectrum disorder and severe, refractory self-injurious behavior: study protocol. Pilot and Feasibility Studies, 2022, 8, 24.	0.5	5

#	Article	IF	Citations
348	Device Assisted and Neuromodulatory Therapies for Parkinson's Disease: A Network Meta-Analysis of Outcomes. SSRN Electronic Journal, 0, , .	0.4	0
349	Psychopathological and neuropsychological outcomes of deep brain stimulation for severe-treatment-resistant obsessive-compulsive disorder: An open-label case series. Journal of Clinical Neuroscience, 2022, 98, 229-234.	0.8	2
350	Deep Brain Stimulation in Drug Addiction Treatment: Research Progress and Perspective. Frontiers in Psychiatry, 2022, 13, 858638.	1.3	11
351	Computational intelligence in subthalamic nucleus deep brain stimulation: A case study in Parkinson`s disease using machine learning supervised techniques. IP Indian Journal of Neurosciences, 2021, 7, 156-163.	0.0	1
353	Hypothalamic deep brain stimulation as a strategy to manage anxiety disorders. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113518119.	3.3	6
360	Awake Deep Brain Stimulation Surgery Without Intraoperative Imaging Is Accurate and Effective: A Case Series. Operative Neurosurgery, 2022, 23, 133-138.	0.4	3
361	Evaluation of DBS Timeline in Movement Disorders: A Comparison Between Genders. World Neurosurgery, 2022, 164, e256-e262.	0.7	4
362	An Argument in Favor of Deep Brain Stimulation for Uncommon Movement Disorders: The Case for N-of-1 Trials in Holmes Tremor. Frontiers in Human Neuroscience, 0, 16, .	1.0	0
363	Parkinsonâ€™s Disease: Deep Brain Stimulation. , 2022, , 2599-2611.		0
364	Long Term Performance of a Bi-Directional Neural Interface for Deep Brain Stimulation and Recording. Frontiers in Human Neuroscience, 0, 16, .	1.0	2
365	MRI-Visible Anatomy of the Brainstem. Neuroimaging Clinics of North America, 2022, 32, 553-564.	0.5	0
366	MRI-Visible Anatomy of the Basal Ganglia and Thalamus. Neuroimaging Clinics of North America, 2022, 32, 529-541.	0.5	2
367	Deviceâ€Assisted and Neuromodulatory Therapies for Parkinson's Disease: A Network Metaâ€Analysis. Movement Disorders, 2022, 37, 1785-1797.	2.2	2
368	Changes of regional cerebral blood flow after deep brain stimulation in cervical dystonia. EJNMMI Research, 2022, 12, .	1.1	1
369	A preclinical study of deep brain stimulation in the ventral tegmental area for alleviating positive psychotic-like behaviors in mice. Frontiers in Human Neuroscience, 0, 16, .	1.0	2
370	Surgical Site Infections Associated With Implanted Pulse Generators for Deep Brain Stimulation: Meta-Analysis and Systematic Review. Neuromodulation, 2023, 26, 280-291.	0.4	1
371	Post-trial access in implanted neural device research: Device maintenance, abandonment, and cost. Brain Stimulation, 2022, 15, 1029-1036.	0.7	7
372	Monitoring stimulusâ€evoked hemodynamic response during deep brain stimulation with single fiber spectroscopy. Journal of Biophotonics, 0, , .	1.1	0

#	Article	IF	Citations
373	Effects of central nervous system electrical stimulation on non-neuronal cells. Frontiers in Neuroscience, 0, 16, .	1.4	1
374	Neuromodulation in drugâ€resistant epilepsy: A review of current knowledge. Acta Neurologica Scandinavica, 2022, 146, 786-797.	1.0	9
375	Deep brain stimulation and spinal cord stimulation for orthostatic tremor: A systematic review. Parkinsonism and Related Disorders, 2022, 104, 115-120.	1.1	1
376	Deep brain stimulation on the external segment of the globus pallidus improves the electrical activity of internal segment of globus pallidus in a rat model of Parkinson's disease. Brain Research, 2022, 1797, 148115.	1.1	1
377	Developments in the mechanistic understanding and clinical application of deep brain stimulation for Parkinsonâ€™s disease. Expert Review of Neurotherapeutics, 2022, 22, 789-803.	1.4	5
378	A review of the bioeffects of low-intensity focused ultrasound and the benefits of a cellular approach. Frontiers in Physiology, 0, 13, .	1.3	4
379	Engineering graphene-based electrodes for optical neural stimulation. Nanoscale, 2023, 15, 687-706.	2.8	2
380	Pathogenesis of Î±-Synuclein in Parkinsonâ€™s Disease: From a Neuron-Glia Crosstalk Perspective. International Journal of Molecular Sciences, 2022, 23, 14753.	1.8	14
381	Current state of knowledge concerning experimental applications for deep brain stimulation in specific neurologic and psychiatric disorders. Journal of Education, Health and Sport, 2022, 12, 277-285.	0.0	0
383	Management of Lennox-Gastaut syndrome with deep brain stimulation: A systematic literature review. Journal of King Abdulaziz University, Islamic Economics, 2022, 27, 216-220.	0.5	0
384	Distributed Neural Interfaces: Challenges and Trends in Scaling Implantable Technology. , 2023, , 381-417.		0
385	Design Considerations for Implantable Neural Circuits and Systems. , 2023, , 695-719.		0
386	Optimal and Adaptive Stimulation Design. , 2023, , 1993-2056.		0
388	Electroceutical and Bioelectric Therapy: Its Advantages and Limitations. Clinical Psychopharmacology and Neuroscience, 2023, 21, 19-31.	0.9	1
389	Preoperative frailty risk in deep brain stimulation patients: Risk analysis index predicts Clavien-Dindo IV complications. Clinical Neurology and Neurosurgery, 2023, 226, 107616.	0.6	9
390	A wide range of Deep Brain Stimulation of the nucleus accumbens shell time independently reduces the extinction period and prevents the reinstatement of methamphetamine-seeking behavior in rats. Life Sciences, 2023, 319, 121503.	2.0	6
391	Deep Brain Stimulation for Parkinsonâ€™s Disease. Juntendo Medical Journal, 2023, 69, 21-29.	0.1	0
392	Neuromodulation for treatment-resistant depression: Functional network targets contributing to antidepressive outcomes. Frontiers in Human Neuroscience, 0, 17, .	1.0	5

#	Article	IF	Citations
393	From neuromorphic to neurohybrid: transition from the emulation to the integration of neuronal networks. Neuromorphic Computing and Engineering, 2023, 3, 023002.	2.8	4
394	Next-generation brain sensing, stimulation, and adaptive control devices for epilepsy. , 2023, , 215-227.		1
401	Deep Brain Stimulation of the Interposed Cerebellar Nuclei in a Conditional Genetic Mouse Model with Dystonia. Advances in Neurobiology, 2023, , 93-117.	1.3	0
406	MRI-guided robot interventionâ€"current state-of-the-art and new challenges. , 2023, 1, .		2
416	Small-scale robotic devices for medical interventions in the brain. MRS Bulletin, 2024, 49, 125-135.	1.7	1