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Translational principles of deep brain stimulation

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677	Deep-brain stimulation. 2007 , 2, 633-646		4
676	Comparison Between Infrared and Electrical Nerve Stimualtion. 2007 ,		
675	Deep brain stimulation: indications and evidence. 2007 , 4, 591-603		92
674	Transcranial magnetic stimulation elicits coupled neural and hemodynamic consequences. 2007 , 317, 1918-21		201
673	Affective neuroscience of pleasure: reward in humans and animals. 2008 , 199, 457-80		828
672	Mechanisms and targets of deep brain stimulation in movement disorders. 2008 , 5, 294-308		223
671	Experimental therapeutics for refractory obsessive-compulsive disorder: translational approaches and new somatic developments. 2008 , 75, 174-203		5
670	Effects of posture-related changes in motor cortical output on central oscillatory activity of pathological origin in humans. 2008 , 1223, 65-72		11
669	Pathophysiology of parkinsonism. 2008 , 119, 1459-74		346
668	Deep Brain Stimulation: An Evolving Technology. 2008 , 96, 1129-1141		16
667	The impact of neurotechnology on rehabilitation. 2008 , 1, 157-97		16
666	Subthalamic local field potential oscillations during ongoing deep brain stimulation in Parkinson's disease. 2008 , 76, 512-21		73
665	High-frequency stimulation of the dorsolateral periaqueductal gray and ventromedial hypothalamus fails to inhibit panic-like behaviour. 2008 , 193, 197-203		28
664	Engineering Neural Interfaces for Rehabilitation of Lower Limb Function in Spinal Cord Injured. 2008 , 96, 1152-1166		14
663	The impact of new imaging technologies in neurosurgery. 2008 , 6, 344-9		9
662	Memory enhancement with event-related stimulation of the rostral intralaminar thalamic nuclei. 2008 , 28, 14293-300		61

661	Influence of basal ganglia on upper limb locomotor synergies. Evidence from deep brain stimulation and L-DOPA treatment in Parkinson's disease. 2008 , 131, 3410-20		32
660	Enhanced Ih depresses rat entopeduncular nucleus neuronal activity from high-frequency stimulation or raised Ke+. 2008 , 99, 2203-19		17
659	Deep brain stimulation: Methods, indications, locations, and efficacy. 556-572		
658	Co-Evolution of Human and Machine: Neuroprosthetics in the 21st Century. 2009 ,		1
657	Neural prostheses and brain plasticity. 2009 , 6, 065008		32
656	Stereotactic atlas-based depth electrode localization in the human amygdala. 2009 , 87, 219-28		16
655	Nanomaterials for Neural Interfaces. <i>Advanced Materials</i> , 2009 , 21, 3970-4004	24	422
654	Washout filter aided mean field feedback desynchronization in an ensemble of globally coupled neural oscillators. 2009 , 101, 241-6		39
653	Invasive Hirnstimulationsverfahren in der Epilepsitherapie. 2009 , 22, 80-88		1
652	Deep brain stimulation as a new therapeutic approach in therapy-resistant mental disorders: ethical aspects of investigational treatment. 2009 , 259 Suppl 2, S135-41		63
651	Linking brain dynamics, neural mechanisms, and deep brain stimulation in Parkinson's disease: an integrated perspective. 2009 , 31, 615-23		23
650	The 3R principle and the use of non-human primates in the study of neurodegenerative diseases: the case of Parkinson's disease. 2009 , 33, 33-47		34
649	Deep brain stimulation in obsessive-compulsive disorder. 2009 , 11, 259-60		
648	Computer-assisted automatic localization of the human pedunculo-pontine nucleus in T1-weighted MR images: a preliminary study. 2009 , 5, 309-18		7
647	Neuronal cell replacement in Parkinson's disease. 2009 , 266, 358-71		45
646	PET functional imaging of deep brain stimulation in movement disorders and psychiatry. 2009 , 29, 1743-54		41
645	Effects of stimulation of the centromedian nucleus of the thalamus on the activity of striatal cells in awake rhesus monkeys. 2009 , 29, 588-98		48
644	Toward feedback controlled deep brain stimulation: dynamics of glutamate release in the subthalamic nucleus in rats. 2009 , 180, 278-89		27

643	Investigating the depth electrode-brain interface in deep brain stimulation using finite element models with graded complexity in structure and solution. 2009 , 184, 142-51		35
642	Towards a functional neuroanatomy of pleasure and happiness. 2009 , 13, 479-87		440
641	Framework for Engineering the Collective Behavior of Complex Rhythmic Systems. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9416-9422	3.9	7
640	Neural Basis of Mental Representations of Motivation, Emotion, and Pleasure. 2009 ,		1
639	A cognitive neuroscience hypothesis of mood and depression. 2009 , 13, 456-63		106
638	State-dependent variability of neuronal responses to transcranial magnetic stimulation of the visual cortex. 2009 , 62, 291-303		100
637	The usefulness of psychophysiology in the maintenance of cognitive life. 2009 , 73, 83-7		2
636	Optical deconstruction of parkinsonian neural circuitry. 2009 , 324, 354-9		1149
635	Deciphering the tremor enigma. 2009 , 120, 1766-7		1
634	Implantable Neural Protheses 1. 2009 ,		8
633	Deep brain stimulation: avoiding the errors of psychosurgery. 2009 , 301, 1705-7		29
632	Wireless neural stimulation in freely behaving small animals. 2009 , 102, 598-605		39
631	Neurosurgical treatment of mood disorders: traditional psychosurgery and the advent of deep brain stimulation. 2009 , 22, 25-31		9
630	Chronic pedunclopontine nucleus stimulation restores functional connectivity. 2010 , 21, 1065-8		23
629	Strength-duration relationship for extracellular neural stimulation: numerical and analytical models. 2010 , 104, 2236-48		65
628	Deep brain stimulation does not silence neurons in subthalamic nucleus in Parkinson's patients. 2010 , 103, 962-7		69
627	DEEP BRAIN STIMULATION IN MIDLINE THALAMIC REGION FACILITATES SYNAPTIC TRANSMISSION AND SHORTTERM MEMORY IN A MOUSE MODEL OF ALZHEIMER'S DISEASE. 2010 , 1, 188-194		23
626	Deep brain stimulation facilitates memory in a model of Alzheimer's disease. 2010 , 1,		1

625	Effects of thalamic high-frequency electrical stimulation on whisker-evoked cortical adaptation. 2010 , 200, 239-50	6
624	Implantable brain computer interface: challenges to neurotechnology translation. 2010 , 38, 369-75	34
623	From the cell to the clinic: a comparative review of the partial D ₁ receptor agonist and α -adrenoceptor antagonist, piribedil, in the treatment of Parkinson's disease. 2010 , 128, 229-73	54
622	Effect of pulsing in low-level light therapy. 2010 , 42, 450-66	169
621	Evaluating the impact of the deep brain stimulation induced electric field on subthalamic neurons: a computational modelling study. 2010 , 188, 105-12	25
620	Conducting polymers on hydrogel-coated neural electrode provide sensitive neural recordings in auditory cortex. 2010 , 6, 57-62	162
619	Electrical interfacing between neurons and electronics via vertically integrated sub-4 microm-diameter silicon probe arrays fabricated by vapor-liquid-solid growth. 2010 , 25, 1809-15	27
618	The impact of subthalamic deep brain stimulation on nigral neuroprotection-myth or reality?. 2010 , 13, 160-7	16
617	Causality between local field potentials of the subthalamic nucleus and electromyograms of forearm muscles in Parkinson's disease. 2010 , 31, 491-8	19
616	Deep brain stimulation mechanisms: beyond the concept of local functional inhibition. 2010 , 32, 1080-91	139
615	Sing the mind electric - principles of deep brain stimulation. 2010 , 32, 1070-9	43
614	Ethical brain stimulation - neuroethics of deep brain stimulation in research and clinical practice. 2010 , 32, 1152-62	101
613	Acetylcholine-dopamine balance hypothesis in the striatum: an update. 2010 , 10 Suppl 1, S148-57	167
612	Ultra-low-power implantable medical electronics. 531-578	
611	Detection and Classification of Extracellular Action Potential Recordings. 2010 , 15-74	7
610	Modeling deep brain stimulation: point source approximation versus realistic representation of the electrode. 2010 , 7, 066009	23
609	Direct visualization of deep brain stimulation targets in Parkinson disease with the use of 7-tesla magnetic resonance imaging. 2010 , 113, 639-47	138
608	Recognition and inhibition of dorsal horn nociceptive signals within a closed-loop system. 2010 , 2010, 1535-8	5

607	Application of a null-beamformer to source localisation in MEG data of deep brain stimulation. 2010 , 2010, 4120-3	11
606	Reconstruction of conductivity using the dual-loop method with one injection current in MREIT. 2010 , 55, 7523-39	7
605	Surgical Therapy for Parkinson's Disease. 2010 , 273-286	
604	An analytic solution of the cable equation predicts frequency preference of a passive shunt-end cylindrical cable in response to extracellular oscillating electric fields. 2010 , 98, 524-33	13
603	Surface-modified microelectrode array with flake nanostructure for neural recording and stimulation. 2010 , 21, 85303	65
602	Stem cell transplantation for neurometabolic and neurodegenerative diseases. 2010 , 58, 845-54	41
601	Deep brain stimulation of the nucleus accumbens shell increases impulsive behavior and tissue levels of dopamine and serotonin. 2010 , 225, 302-9	53
600	Applications of conducting polymers and their issues in biomedical engineering. 2010 , 7 Suppl 5, S559-79	260
599	Deep-Brain Stimulation for Neurologic and Psychiatric Disorders. 2010 , 659-681	4
598	Towards model-based control of Parkinson's disease. 2010 , 368, 2269-308	84
597	Achieving electric field steering in deep brain stimulation. 2011 ,	
596	Deep-Brain Stimulation for Basal Ganglia Disorders. 2011 , 1, 65-77	58
595	Spatial steering of deep brain stimulation volumes using a novel lead design. 2011 , 122, 558-566	150
594	New insights into the relationship between dopamine, beta oscillations and motor function. 2011 , 34, 611-8	412
593	The paradox of psychosurgery to treat mental disorders. 301-320	
592	The challenge of integrating devices into the central nervous system. 2011 , 39, 29-44	47
591	Balancing the brain: resting state networks and deep brain stimulation. 2011 , 5, 8	55
590	Deep brain stimulation in the media: over-optimistic portrayals call for a new strategy involving journalists and scientists in ethical debates. 2011 , 5, 16	48

589	Modulating affect, cognition, and behavior - prospects of deep brain stimulation for treatment-resistant psychiatric disorders. 2011 , 5, 29	16
588	Industrial perspective on deep brain stimulation: history, current state, and future developments. 2011 , 5, 46	19
587	The role of inhibition in generating and controlling Parkinson's disease oscillations in the Basal Ganglia. 2011 , 5, 86	84
586	Striatal stimulation nurtures endogenous neurogenesis and angiogenesis in chronic-phase ischemic stroke rats. 2011 , 20, 1049-64	35
585	The use of least squares lattice algorithm in the parameterization and sorting of action potentials signals. 2011 ,	
584	Subthalamic nucleus high-frequency stimulation generates a concomitant synaptic excitation-inhibition in substantia nigra pars reticulata. 2011 , 589, 4189-207	27
583	Effective inhibition of substantia nigra by deep brain stimulation fails to suppress tonic epileptic seizures. 2011 , 43, 725-35	9
582	Neuroethical principles of deep-brain stimulation. 2011 , 76, 518-9	14
581	Building a neuroscience of pleasure and well-being. 2011 , 1, 1-3	108
580	Ultrasonic neuromodulation by brain stimulation with transcranial ultrasound. 2011 , 6, 1453-70	251
579	Deep brain stimulation for movement disorders. Considerations on 276 consecutive patients. 2011 , 118, 1497-510	34
578	Selective GABA release as a mechanistic basis of high-frequency stimulation used for the treatment of neuropsychiatric diseases. 2011 , 384, 1-20	23
577	Characterizing Deep Brain Stimulation effects in computationally efficient neural network models. 2011 , 5, 2	5
576	Effects of DBS on auditory and somatosensory processing in Parkinson's disease. 2011 , 32, 1091-9	40
575	Stimulation of the nucleus accumbens as behavioral reward in awake behaving monkeys. 2011 , 199, 265-72	18
574	Suppression of collective synchronization in a system of neural groups with washout-filter-aided feedback. 2011 , 24, 538-43	10
573	Study on DBS device for small animals. 2011 , 2011, 6773-6	2
572	Effects of periodic stimulation on an overly activated neuronal circuit. 2011 , 84, 021911	6

571	Development of an implantable microstimulation system for chronic DBS in rodents. 2011 , 2011, 660-2	5
570	Combining functional imaging with brain stimulation in Parkinson's disease. 2011 , 23, 467-75	6
569	Brain Gene Transfer and Brain Implants. 2011 , 4,	4
568	Model-based analysis and control of a network of basal ganglia spiking neurons in the normal and parkinsonian states. 2011 , 8, 045002	31
567	Surgical treatment of Parkinson disease and other movement disorders. 2011 , 157-182	1
566	Cognitive activation by central thalamic stimulation: the yerkes-dodson law revisited. 2011 , 9, 313-31	36
565	Stimulation of entorhinal cortex promotes adult neurogenesis and facilitates spatial memory. 2011 , 31, 13469-84	279
564	Clinical effectiveness of unilateral deep brain stimulation in Tourette syndrome. 2011 , 1, e52	18
563	Contact dependent reproducible hypomania induced by deep brain stimulation in Parkinson's disease: clinical, anatomical and functional imaging study. 2011 , 82, 607-14	76
562	Frequency-dependent effects of electrical stimulation in the globus pallidus of dystonia patients. 2012 , 108, 5-17	40
561	Promotion of recovery from thoracic spinal cord contusion in rats by stimulation of medullary raphe or its midbrain input. 2012 , 26, 374-84	21
560	Pain management in victims of conflict. 2012 , 6, 172-6	3
559	Locating Optimal Electrodes Placement via Microelectrode Recording in General Anesthetic Patients During Deep Brain Stimulation. 2012 ,	1
558	. 2012 ,	3
557	Frontal theta cordance predicts 6-month antidepressant response to subcallosal cingulate deep brain stimulation for treatment-resistant depression: a pilot study. 2012 , 37, 1764-72	89
556	A digital wireless system for closed-loop inhibition of nociceptive signals. 2012 , 9, 056010	18
555	What patients with gilles de la tourette syndrome should be treated with deep brain stimulation and what is the best target?. 2012 , 71, 173-92	58
554	Upper threshold of extracellular neural stimulation. 2012 , 108, 3233-8	29

553	Deep brain stimulation. 2013 , 1, 200-12	34
552	How to suppress undesired synchronization. <i>Scientific Reports</i> , 2012 , 2, 658	4-9 51
551	Preoperative functional MRI of motor and sensory cortices: how imaging can save vital functions. 2012 , 4, 77-87	0
550	Emotions are real. 2012 , 12, 413-29	250
549	Opposite effects of ketamine and deep brain stimulation on rat thalamocortical information processing. 2012 , 36, 3407-19	46
548	Neurophysiology of deep brain stimulation. 2012 , 107, 23-55	34
547	Magnetoencephalography and neuromodulation. 2012 , 107, 121-36	
546	The subthalamic nucleus at 7.0 Tesla: evaluation of sequence and orientation for deep-brain stimulation. 2012 , 154, 2051-62	20
545	Targeting the brain: considerations in 332 consecutive patients treated by deep brain stimulation (DBS) for severe neurological diseases. 2012 , 33, 1285-303	25
544	The effect of extreme low frequency external alternating-current field on the adaptability in the Ermentrout model. 2012 ,	
543	Catching the engram: strategies to examine the memory trace. 2012 , 5, 32	26
542	PET functional imaging of deep brain stimulation in Parkinson's disease. 2012 , 25, 133-138	2
541	Periaqueductal gray stimulation suppresses spontaneous pain behavior in rats. 2012 , 514, 42-5	15
540	From heart to brain: the genesis and processing of cardiac pain. 2012 , 28, S7-19	43
539	Pulse propagation and failure in the discrete FitzHugh-Nagumo model subject to high-frequency stimulation. 2012 , 86, 046211	8
538	A closed loop feedback system for automatic detection and inhibition of mechano-nociceptive neural activity. 2012 , 20, 478-87	13
537	Deep brain stimulation of the accumbens increases dopamine, serotonin, and noradrenaline in the prefrontal cortex. 2012 , 123, 897-903	51
536	Deep brain stimulation for intractable psychiatric disorders. 2012 , 63, 511-24	68

535	Smaller magnets for smarter minds?. 2012 , 16, 452-3		3
534	Deep brain stimulation induces BOLD activation in motor and non-motor networks: an fMRI comparison study of STN and EN/GPi DBS in large animals. <i>NeuroImage</i> , 2012 , 63, 1408-20	7.9	77
533	A multi-modal approach to computer-assisted deep brain stimulation trajectory planning. 2012 , 7, 687-704		57
532	A surgeon specific automatic path planning algorithm for deep brain stimulation. 2012 ,		10
531	Pattern classification of deep brain local field potentials for brain computer interfaces. 2012 ,		1
530	Deep brain stimulation reveals a dissociation of consummatory and motivated behaviour in the medial and lateral nucleus accumbens shell of the rat. 2012 , 7, e33455		50
529	MEG can map short and long-term changes in brain activity following deep brain stimulation for chronic pain. 2012 , 7, e37993		23
528	Neuroimaging and neuromodulation: complementary approaches for identifying the neuronal correlates of tinnitus. 2012 , 6, 15		58
527	Does the Cognitive Top-Down Systems Biology Approach, Embodied in Virtual Scanning, Provide Us with a Theoretical Framework to Explain the Function of Most Complementary and Alternative and Most Orthodox Biomedical Techniques?. 2012 ,		
526	Evidence and the Assessment of Causal Relations in the Health Sciences. 2012 , 26, 27-45		17
525	Deep brain stimulation and the role of astrocytes. 2012 , 17, 124-31, 115		75
524	Deep brain stimulation for movement and other neurologic disorders. 2012 , 1265, 1-8		35
523	Modeling extracellular electrical neural stimulation: from basic understanding to MEA-based applications. 2012 , 106, 146-58		55
522	The effect of extreme low frequency external electric field on the adaptability in the Ermentrout model. 2012 , 81, 67-74		2
521	Visualisation of the zona incerta for deep brain stimulation at 3.0 Tesla. 2012 , 22, 55-68		19
520	Effect of high-frequency stimulation on nerve pulse propagation in the FitzHugh-Nagumo model. 2012 , 67, 2899-2908		24
519	Visualization of the internal globus pallidus: sequence and orientation for deep brain stimulation using a standard installation protocol at 3.0 Tesla. 2012 , 154, 481-94		30
518	Inferring evoked brain connectivity through adaptive perturbation. 2013 , 34, 303-18		17

517	Deep brain stimulation modulates nonsense-mediated RNA decay in Parkinson's patients leukocytes. 2013 , 14, 478			11
516	Deep brain stimulation induced effects in a network of ventral intermediate neurons. 2013 , 14,			1
515	Of (Zombie) Mice and Animats. 2013 , 85-106			1
514	Divergent motor projections from the pedunculopontine nucleus are differentially regulated in Parkinsonism. 2014 , 219, 1451-62			20
513	Synchrony suppression in ensembles of coupled oscillators via adaptive vanishing feedback. 2013 , 23, 033122			20
512	Neuropsychiatric deep brain stimulation for translational neuroimaging. <i>NeuroImage</i> , 2013 , 79, 30-41	7.9		15
511	Adaptation controls synchrony and cluster states of coupled threshold-model neurons. 2013 , 88, 042713			20
510	A Hybrid Optimal Design Strategy of Wireless Magnetic-Resonant Charger for Deep Brain Stimulation Devices. 2013 , 49, 2145-2148			10
509	Deep brain stimulation in animal models. 2013 , 116, 19-25			4
508	Involvement of the N-methyl-D-aspartate receptor GluN2D subunit in phencyclidine-induced motor impairment, gene expression, and increased Fos immunoreactivity. 2013 , 6, 56			24
507	Nanoparticles in the brain: a potential therapeutic system targeted to an early defect observed in many neurodegenerative diseases. 2013 , 30, 2459-74			8
506	Flexible charge balanced stimulator with 5.6 fC accuracy for 140 nC injections. 2013 , 7, 266-75			30
505	Channelrhodopsins-Their potential in gene therapy for neurological disorders. 2013 , 75, 6-12			7
504	The impact of chronic blood-brain barrier breach on intracortical electrode function. 2013 , 34, 4703-13			190
503	Limbic Forebrain: The Functional Neuroanatomy of Emotion and Hedonic Processing. 2013 , 1335-1363			
502	Failure of delayed feedback deep brain stimulation for intermittent pathological synchronization in Parkinson's disease. 2013 , 8, e58264			21
501	Wireless wrist-wearable wake/sleep identification device for closed-loop deep brain stimulation. 2013 , 49, 452-453			8
500	A miniaturized system for imaging vascular response to deep brain stimulation. 2013 ,			1

499	A magnetic field projector for deep brain modulation. 2013 ,		1
498	Deep brain stimulation in addiction due to psychoactive substance use. 2013 , 116, 259-69		16
497	Desynchronization of the Chaotic-Bursting Neuronal Ensemble Based on LaSalle Invariant Principle. 2013 , 427-429, 1109-1112		
496	Proteomic analysis of the cerebrospinal fluid of Parkinson's disease patients pre- and post-deep brain stimulation. 2013 , 31, 625-37		23
495	Midbrain raphe stimulation improves behavioral and anatomical recovery from fluid-percussion brain injury. 2013 , 30, 119-30		25
494	Modulation of the mechano-nociceptive neural activities in the ventral posterolateral nucleus in thalamus. 2013 ,		1
493	An active method for tracking connectivity in temporally changing brain networks. 2013 , 2013, 4374-7		2
492	More than meets the eye-myelinated axons crowd the subthalamic nucleus. 2013 , 28, 1811-5		23
491	Proceduralinterventions. 627-648		
490	Long-term potentiation promotes proliferation/survival and neuronal differentiation of neural stem/progenitor cells. 2013 , 8, e76860		18
489	Lateral habenula deep brain stimulation for personalized treatment of drug addiction. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 806	3-3	20
488	Grand Challenges in Bionics. 2013 , 1, 3		4
487	Neural plasticity in human brain connectivity: the effects of long term deep brain stimulation of the subthalamic nucleus in Parkinson's disease. 2014 , 9, e86496		71
486	Disrupting neuronal transmission: mechanism of DBS?. 2014 , 8, 33		64
485	Clinical utility of implantable neurostimulation devices as adjunctive treatment of uncontrolled seizures. 2014 , 10, 2191-200		17
484	Bioelectric Measurements: Magnetoencephalography. 2014 , 47-72		3
483	DESYNCHRONIZATION OF TWO COUPLED LIMIT-CYCLE OSCILLATORS USING AN ASTROCYTE-INSPIRED CONTROLLER. 2014 , 07, 1450001		3
482	Closed loop deep brain stimulation: an evolving technology. 2014 , 37, 619-34		39

481	Electrochemical deposition and characterization of carboxylic acid functionalized PEDOT copolymers. 2014 , 29, 2835-2844	22
480	PEDOT:PSS coated gold nanopillar microelectrodes for neural interfaces. 2014 ,	2
479	Long non-coding RNA and alternative splicing modulations in Parkinson's leukocytes identified by RNA sequencing. 2014 , 10, e1003517	133
478	Variation in deep brain stimulation electrode impedance over years following electrode implantation. 2014 , 92, 94-102	54
477	Deep brain stimulation in persistent vegetative States: ethical issues governing decision making. 2014 , 2014, 641213	9
476	Invasive and non-invasive brain stimulation for treatment of neuropathic pain in patients with spinal cord injury: a review. 2014 , 37, 19-31	44
475	Polarity detection base pulse insertion for active charge balancing in electrical stimulation. 2014 ,	2
474	Control of the lungs via the human brain using neurosurgery. 2014 , 209, 341-66	4
473	Controlling synchrony in oscillatory networks via an act-and-wait algorithm. 2014 , 90, 032914	19
472	Deep brain stimulation and autonomic control. 2014 , 99, 320-5	8
471	Great expectations: using whole-brain computational connectomics for understanding neuropsychiatric disorders. 2014 , 84, 892-905	237
470	A novel digital circuit for astrocyte-inspired stimulator to desynchronize two coupled oscillators. 2014 ,	2
469	Ultra-low-power biomedical circuit design and optimization: Catching the don't cares. 2014 ,	2
468	Optogenetic inactivation of the subthalamic nucleus improves forelimb akinesia in a rat model of Parkinson disease. 2014 , 74, 533-40; discussion 540-1	45
467	The Future Usage and Challenges of Brain Stimulation. 2014 , 523-538	3
466	Tremor dependant nonlinear interaction in deep brain local field potentials of Parkinson's disease. 2014 ,	0
465	Control of abnormal synchronization in neurological disorders. 2014 , 5, 268	41
464	Virtual neurosurgical education for image-guided deep brain stimulation neurosurgery. 2014 ,	4

463	Subthalamic nucleus deep brain stimulation induces motor network BOLD activation: use of a high precision MRI guided stereotactic system for nonhuman primates. 2014 , 7, 603-607		39
462	Functional MRI reveals frequency-dependent responses during deep brain stimulation at the subthalamic nucleus or internal globus pallidus. <i>NeuroImage</i> , 2014 , 84, 11-8	7.9	50
461	Deep brain stimulation and multiple sclerosis: Therapeutic applications. 2014 , 3, 431-9		17
460	Multifunctional wearable devices for diagnosis and therapy of movement disorders. 2014 , 9, 397-404		1037
459	Deep brain stimulation for disorders of memory and cognition. 2014 , 11, 527-34		23
458	Neural Computation, Neural Devices, and Neural Prosthesis. 2014 ,		3
457	An integrative model of auditory phantom perception: tinnitus as a unified percept of interacting separable subnetworks. 2014 , 44, 16-32		246
456	Neuromodulation for treatment-refractory major depressive disorder. 2014 , 186, 33-9		26
455	Affective Neuroscience Strategies for Understanding and Treating Depression: From Preclinical Models to Three Novel Therapeutics. 2014 , 2, 472-494		61
454	Basic neuroscience research with nonhuman primates: a small but indispensable component of biomedical research. 2014 , 82, 1200-4		103
453	Biodegradable electroactive polymers for electrochemically-triggered drug delivery. 2014 , 2, 6809-6822		56
452	Neural Interfaces: from Human Nerves to Electronics. 2014 , 87-113		2
451	High-frequency electrical stimulation suppresses cholinergic accumbens interneurons in acute rat brain slices through GABA(B) receptors. 2014 , 40, 3653-62		17
450	Multisurgeon, multisite validation of a trajectory planning algorithm for deep brain stimulation procedures. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2479-87	5	18
449	Electrical stimuli in the central nervous system microenvironment. 2014 , 16, 397-430		70
448	Brain-computer interface after nervous system injury. 2014 , 20, 639-51		75
447	Hungry for reward: How can neuroscience inform the development of treatment for Anorexia Nervosa?. 2014 , 62, 47-59		57
446	An ephaptic transmission model of CA3 pyramidal cells: an investigation into electric field effects. 2014 , 8, 177-97		5

445	A Fully Self-Contained Logarithmic Closed-Loop Deep Brain Stimulation SoC With Wireless Telemetry and Wireless Power Management. 2014 , 49, 2213-2227		75
444	Technology for chronic pain. 2014 , 24, R930-R935		10
443	Subthalamic deep brain stimulation in Parkinson's disease has no significant effect on perceptual timing in the hundreds of milliseconds range. 2014 , 57, 29-37		6
442	The subthalamic activity and striatal monoamine are modulated by subthalamic stimulation. 2014 , 259, 43-52		7
441	High-frequency electrical stimulation of the subthalamic nucleus excites target structures in a model using c-fos immunohistochemistry. 2014 , 270, 212-25		14
440	Abnormal functional connectivity between motor cortex and pedunclopontine nucleus following chronic dopamine depletion. 2014 , 111, 434-40		19
439	Systems Neuroengineering: Understanding and Interacting with the Brain. 2015 , 1, 292-308		19
438	Frequency-window effects of subthreshold electric fields on neuronal discharges of active neurons. 2015 ,		
437	Magnetic field projector for deep brain stimulation. 2015 ,		
436	Conducting Polymers: Prospects. 2015 , 2024-2038		
435	Agency and intervention. 2015 , 370, 20140215		8
434	Movement decoding using neural synchronization and inter-hemispheric connectivity from deep brain local field potentials. 2015 , 12, 056011		24
433	Effect of electrical vs. chemical deep brain stimulation at midbrain sites on micturition in anaesthetized rats. 2015 , 214, 135-45		17
432	Significant new quantitative EEG patterns in fibromyalgia. 2015 , 29, 277-292		4
431	Power Approaches for Implantable Medical Devices. 2015 , 15, 28889-914		199
430	Reconceptualizing anhedonia: novel perspectives on balancing the pleasure networks in the human brain. <i>Frontiers in Behavioral Neuroscience</i> , 2015 , 9, 49	3-5	112
429	Evidence from a rare case study for Hebbian-like changes in structural connectivity induced by long-term deep brain stimulation. <i>Frontiers in Behavioral Neuroscience</i> , 2015 , 9, 167	3-5	14
428	Interaction of electrically evoked activity with intrinsic dynamics of cultured cortical networks with and without functional fast GABAergic synaptic transmission. 2015 , 9, 272		3

427	Functional connectivity in in vitro neuronal assemblies. 2015 , 9, 57	41
426	Numerical characterization of intraoperative and chronic electrodes in deep brain stimulation. 2015 , 9, 2	11
425	Qualitative assessment of patients' attitudes and expectations toward BCIs and implications for future technology development. 2015 , 9, 64	18
424	Subthalamic Nucleus Deep Brain Stimulation Modulate Catecholamine Levels with Significant Relations to Clinical Outcome after Surgery in Patients with Parkinson's Disease. 2015 , 10, e0138462	6
423	An Overview of Biofield Devices. 2015 , 4, 42-51	13
422	Neuroprosthetics. 2015 , 714-721	2
421	Multiphoton microfabrication of conducting polymer-based biomaterials. 2015 , 3, 5001-5004	15
420	The integrative role of the pedunculopontine nucleus in human gait. 2015 , 138, 1284-96	68
419	The effects of different anesthetic methods on neuronal activity and movement symptoms of Parkinson's disease. 2015 , 16, 573-579	1
418	Optogenetics. 2015 ,	10
417	Magnetolectric 'spin' on stimulating the brain. 2015 , 10, 2051-61	84
416	Are μ Opioid Receptors Involved in Deep Brain Stimulation?. 2015 , 521-581	1
415	Designing a deep brain stimulator to suppress pathological neuronal synchrony. 2015 , 63, 282-92	2
414	Desynchronization in an ensemble of globally coupled chaotic bursting neuronal oscillators by dynamic delayed feedback control. 2015 , 29, 1450235	3
413	A bio-inspired stimulator to desynchronize epileptic cortical population models: A digital implementation framework. 2015 , 67, 74-83	6
412	Toward sophisticated basal ganglia neuromodulation: Review on basal ganglia deep brain stimulation. 2015 , 58, 186-210	42
411	A Miniature, Fiber-Coupled, Wireless, Deep-Brain Optogenetic Stimulator. 2015 , 23, 655-64	39
410	Neurostimulation in Alzheimer's disease: from basic research to clinical applications. 2015 , 36, 689-700	24

409	Novel fingerprinting method characterises the necessary and sufficient structural connectivity from deep brain stimulation electrodes for a successful outcome. 2015 , 17, 015001	20
408	Rethinking segregation and integration: contributions of whole-brain modelling. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 430-9	13,5 291
407	Functional Surgery: From Lesioning to Deep Brain Stimulation and Beyond. 2015 , 955-964	1
406	Behavioral effects of deep brain stimulation of different areas of the Papez circuit on memory- and anxiety-related functions. 2015 , 292, 353-60	20
405	Deep brain stimulation: current status. 2015 , 63, 9-18	10
404	Molecular design, synthesis, and characterization of conjugated polymers for interfacing electronic biomedical devices with living tissue. 2015 , 5, 131-152	52
403	Rapid feedback processing in human nucleus accumbens and motor thalamus. 2015 , 70, 246-54	4
402	An organic electronic biomimetic neuron enables auto-regulated neuromodulation. 2015 , 71, 359-364	36
401	Human and Nonhuman Primate Neurophysiology to Understand the Pathophysiology of Movement Disorders. 2015 , 213-225	
400	Internal structures of the globus pallidus in patients with Parkinson's disease: evaluation with quantitative susceptibility mapping (QSM). 2015 , 25, 710-8	34
399	Neural stimulation and recording with bidirectional, soft carbon nanotube fiber microelectrodes. 2015 , 9, 4465-74	194
398	Role of radiology in central nervous system stimulation. 2015 , 88, 20140507	1
397	Drift in centrality of different brain regions in an anatomical neural network with Parkinson's disease: A view from complex network analysis. 2015 , 299, 107-24	5
396	Parkinson Disease. 2015 , 133-164	1
395	Placebo-controlled vagus nerve stimulation paired with tones in a patient with refractory tinnitus: a case report. 2015 , 36, 575-80	43
394	The quartet theory of human emotions: An integrative and neurofunctional model. 2015 , 13, 1-27	118
393	Wake/Sleep Identification Based on Body Movement for Parkinson's Disease Patients. 2015 , 35, 517-527	
392	Magnetic Field Projector for Deep Brain Stimulation. 2015 , 51, 1-4	3

391	Tightly wrapped semiconductor-axon microtubes for probing hybrid networks: Modeling the capacitive coupling strength. 2015 , 106, 053704	1
390	Magnetogenetics: remote non-invasive magnetic activation of neuronal activity with a magnetoreceptor. 2015 , 60, 2107-2119	61
389	The Behavioral Neuroscience of Motivation: An Overview of Concepts, Measures, and Translational Applications. 2016 , 27, 1-12	29
388	Progressive brain metabolic changes under deep brain stimulation of subthalamic nucleus in parkinsonian rats. 2015 , 132, 703-12	15
387	Neuromodulation for Addiction. 2015 , 247-255	1
386	Zombie Mouse in a Chinese Room. 2015 , 28, 209-223	4
385	Suppression of subthalamic nucleus activity by micromagnetic stimulation. 2015 , 23, 116-27	22
384	Textbook of Neuromodulation. 2015 ,	7
383	Deep-Brain Stimulation for Neurologic and Neuropsychiatric Disorders. 2016 , 24, 971-995	1
382	Deep Brain Stimulation. 2016 , 187-196	1
381	Analysis of Postural Stability in a Female-Patient with Parkinsons Disease Before and After Double-Sided Dbs Implantation-A 2-Year Case-Study. 2016 , 04,	1
380	Electrical Stimulation of the Ear, Head, Cranial Nerve, or Cortex for the Treatment of Tinnitus: A Scoping Review. 2016 , 2016, 5130503	16
379	Computational Modeling and Neuroimaging Techniques for Targeting during Deep Brain Stimulation. 2016 , 10, 71	11
378	Editorial: At Risk for Neuropsychiatric Disorders: An Affective Neuroscience Approach to Understanding the Spectrum. <i>Frontiers in Behavioral Neuroscience</i> , 2016 , 10, 165	3.5 1
377	Can Nanofluidic Chemical Release Enable Fast, High Resolution Neurotransmitter-Based Neurostimulation?. 2016 , 10, 138	3
376	Value and Efficacy of Transcranial Direct Current Stimulation in the Cognitive Rehabilitation: A Critical Review Since 2000. 2016 , 10, 157	52
375	Making Waves in the Brain: What Are Oscillations, and Why Modulating Them Makes Sense for Brain Injury. 2016 , 10, 30	21
374	Effects of high-frequency stimulation of the internal pallidal segment on neuronal activity in the thalamus in parkinsonian monkeys. 2016 , 116, 2869-2881	18

373	Cholinergic mechanisms of high-frequency stimulation in entopeduncular nucleus. 2016 , 115, 60-7	7
372	Functional Magnetic Resonance Imaging of Electrical and Optogenetic Deep Brain Stimulation at the Rat Nucleus Accumbens. <i>Scientific Reports</i> , 2016 , 6, 31613	4-9 23
371	Chapter 4 Neuroimaging in Deep Brain Stimulation. 2016 , 67-84	
370	Chapter 22 Molecular and Cellular Neuromodulation for Central Nervous System Injury and Regeneration. 2016 , 415-454	
369	An overview of brain machine interface research in developing countries: Opportunities and challenges. 2016 ,	4
368	Retinal stimulation strategies to restore vision: Fundamentals and systems. 2016 , 53, 21-47	147
367	Can Carbon Nanotubes Deliver on Their Promise in Biology? Harnessing Unique Properties for Unparalleled Applications. 2016 , 2, 190-200	71
366	Tractography Study of Deep Brain Stimulation of the Anterior Cingulate Cortex in Chronic Pain: Key to Improve the Targeting. 2016 , 86, 361-70.e1-3	18
365	From Nose to Brain: Un-Sensed Electrical Currents Applied in the Nose Alter Activity in Deep Brain Structures. 2016 , 26, 4180-4191	15
364	Dopamine Release in the Nonhuman Primate Caudate and Putamen Depends upon Site of Stimulation in the Subthalamic Nucleus. 2016 , 36, 6022-9	29
363	Linking neuroimaging signals to behavioral responses in single cases: Challenges and opportunities. 2016 , 5, 161-9	1
362	Developing an Implantable Micro Magnetic Stimulation System to Induce Neural Activity in Vivo. 2016 , 372-380	3
361	Use of deep brain stimulation for major affective disorders. 2016 , 12, 2371-2376	4
360	Post-Traumatic Tremor and Thalamic Deep Brain Stimulation: Evidence for Use of Diffusion Tensor Imaging. 2016 , 96, 607.e7-607.e11	4
359	A Synergistic Treatment Strategy for Severe Obsessive Compulsive Disorder. 2016 , 19, 542-4	3
358	Restoring touch. 2016 , 15, 919	2
357	Subcortical contributions to large-scale network communication. 2016 , 71, 313-322	83
356	Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site. 2016 , 113, 9440-5	82

355	. 2016,		0
354	Improved Anatomical Specificity of Non-invasive Neuro-stimulation by High Frequency (5 MHz) Ultrasound. <i>Scientific Reports</i> , 2016 , 6, 24738	4.9	62
353	Chronically monitoring the deep brain rhythms: from stimulation to recording. 2016 , 61, 1522-1524		6
352	Deep brain stimulation in the central nucleus of the amygdala decreases 'wanting' and 'liking' of food rewards. 2016 , 44, 2431-2445		14
351	High frequency self-oscillating current switching for a fully integrated fail-safe stimulator output stage. 2016,		1
350	NANOMEDICINE USING MAGNETO-ELECTRIC NANOPARTICLES. 2016 , 323-357		
349	Multiphoton imaging reveals that nanosecond pulsed electric fields collapse tumor and normal vascular perfusion in human glioblastoma xenografts. <i>Scientific Reports</i> , 2016 , 6, 34443	4.9	17
348	The nanomaterial toolkit for neuroengineering. 2016 , 3, 25		15
347	Neural signal processing for closed-loop neuromodulation. 2016 , 6, 113-122		1
346	High Frequency Electrical Stimulation of Lateral Habenula Reduces Voluntary Ethanol Consumption in Rats. 2016 , 19,		31
345	Multi-modal Learning-based Pre-operative Targeting in Deep Brain Stimulation Procedures. 2016 , 2016, 17-20		2
344	Dual-Band Waveform Generator With Ultra-Wide Low-Frequency Tuning-Range. 2016 , 4, 3169-3181		2
343	Photovoltaic Pixels for Neural Stimulation: Circuit Models and Performance. 2016 , 10, 85-97		41
342	. 2016 , 51, 955-965		40
341	Vibrational Resonance in Monostable Systems. 2016 , 83-117		1
340	Postural instability and falls in Parkinson's disease. 2016 , 27, 549-55		29
339	Psychiatric Neurotherapeutics. 2016,		5
338	CMOS Image Sensor and System for Imaging Hemodynamic Changes in Response to Deep Brain Stimulation. 2016 , 10, 632-42		11

337	Deep Brain Stimulation for Movement Disorders of Basal Ganglia Origin: Restoring Function or Functionality?. 2016 , 13, 264-83	90
336	Electro-optical Neural Platform Integrated with Nanoplasmonic Inhibition Interface. 2016 , 10, 4274-81	52
335	Nano-Bioelectronics. 2016 , 116, 215-57	426
334	Buckling of an elastic fiber with finite length in a soft matrix. 2016 , 12, 2086-94	20
333	Electro-triggering and electrochemical monitoring of dopamine exocytosis from a single cell by using ultrathin electrodes based on Au nanowires. 2016 , 8, 214-8	13
332	An Inductively-Powered Wireless Neural Recording System with a Charge Sampling Analog Front-End. 2016 , 16, 475-484	31
331	Mechanism of Deep Brain Stimulation: Inhibition, Excitation, or Disruption?. 2016 , 22, 313-22	174
330	Cloud based framework for Parkinson's disease diagnosis and monitoring system for remote healthcare applications. 2017 , 66, 36-47	38
329	A Method for Removal of Deep Brain Stimulation Artifact From Local Field Potentials. 2017 , 25, 2217-2226	22
328	A 200-1380-kHz Quadrifrequency Focused Ultrasound Transducer for Neurostimulation in Rodents and Primates: Transcranial In Vitro Calibration and Numerical Study of the Influence of Skull Cavity. 2017 , 64, 717-724	33
327	The role of driver nodes in managing epileptic seizures: Application of Kuramoto model. 2017 , 419, 108-115	5
326	Neuromodulation of Consciousness Disorders. 2017 , 317-346	
325	Parallel radiofrequency transmission at 3 tesla to improve safety in bilateral implanted wires in a heterogeneous model. 2017 , 78, 2406-2415	31
324	Subthalamic nucleus deep brain stimulation affects distractor interference in auditory working memory. 2017 , 97, 66-71	3
323	Direct Brain Stimulation Modulates Encoding States and Memory Performance in Humans. 2017 , 27, 1251-1258	129
322	Ultra-Low-Power Biomedical Circuit Design and Optimization: Catching the Don't Cares. 2017 , 159-173	0
321	Hierarchy of Information Processing in the Brain: A Novel 'Intrinsic Ignition' Framework. 2017 , 94, 961-968	51
320	Entorhinal Cortical Deep Brain Stimulation Rescues Memory Deficits in Both Young and Old Mice Genetically Engineered to Model Alzheimer's Disease. 2017 , 42, 2493-2503	31

319	Noninvasive Deep Brain Stimulation via Temporally Interfering Electric Fields. 2017 , 169, 1029-1041.e16		317
318	Effects of Electrical and Optogenetic Deep Brain Stimulation on Synchronized Oscillatory Activity in Parkinsonian Basal Ganglia. 2017 , 25, 2188-2195		16
317	Neuromodulation interventions for addictive disorders: challenges, promise, and roadmap for future research. 2017 , 140, 1183-1203		40
316	Training Fixed-Point Classifiers for On-Chip Low-Power Implementation. 2017 , 22, 1-18		4
315	Deep brain stimulation of the dorsal raphe inhibits avoidance and escape reactions and activates forebrain regions related to the modulation of anxiety/panic. 2017 , 321, 193-200		9
314	Neural Recording and Modulation Technologies. 2017 , 2,		267
313	Optimizing Electrical Stimulation for Closed-loop Control of Neural Ensembles. 2017 , 439-451		
312	Mitochondrial dynamics in Parkinson's disease: a role for α -Synuclein?. 2017 , 10, 1075-1087		86
311	Uncovering the underlying mechanisms and whole-brain dynamics of deep brain stimulation for Parkinson's disease. <i>Scientific Reports</i> , 2017 , 7, 9882	4-9	55
310	Exploring the brain through posterior hypothalamus surgery for aggressive behavior. 2017 , 43, E14		6
309	Freezing response-independent facilitation of fear extinction memory in the prefrontal cortex. <i>Scientific Reports</i> , 2017 , 7, 5363	4-9	6
308	Advanced CerMet ceramic composites for medical applications. 2017 , 75, 206-211		5
307	Multiplexed Optogenetic Stimulation of Neurons with Spectrum-Selective Upconversion Nanoparticles. 2017 , 6, 1700446		36
306	Subthalamic nucleus deep brain stimulation for Parkinson's disease in a patient with severe haemophilia A. 2017 , 23, e246-e248		2
305	Neuromodulation in multiple sclerosis. 2017 , 23, 1663-1676		27
304	Intelligent biohybrid systems for functional brain repair. 2017 , 3, 162		5
303	Functional circuit mapping of striatal output nuclei using simultaneous deep brain stimulation and fMRI. <i>NeuroImage</i> , 2017 , 146, 1050-1061	7-9	17
302	Deep brain stimulation of the periaqueductal gray releases endogenous opioids in humans. <i>NeuroImage</i> , 2017 , 146, 833-842	7-9	32

301	Identification of medaka magnetoreceptor and cryptochromes. 2017 , 60, 271-278	6
300	Neural Plasticity in Human Brain Connectivity. 2017 , 527-546	
299	Engineering solutions for cancer. 2017 , 3, 010201	
298	Advanced research on deep brain stimulation in treating mental disorders. 2018 , 15, 3-12	1
297	Distributed open-loop optogenetic control of cortical epileptiform activity in a Wilson-Cowan network. 2017 ,	0
296	An active charge balancing method based on anodic current variation monitoring. 2017 ,	2
295	microRNAs in Parkinson's Disease: From Pathogenesis to Novel Diagnostic and Therapeutic Approaches. 2017 , 18,	129
294	Cyborgs and Enhancement Technology. 2017 , 2, 4	13
293	Wireless closed-loop stimulation systems for symptom management. 2017 , 151-189	1
292	A Neurophysiological Perspective on a Preventive Treatment against Schizophrenia Using Transcranial Electric Stimulation of the Corticothalamic Pathway. 2017 , 7,	10
291	MagR Alone Is Insufficient to Confer Cellular Calcium Responses to Magnetic Stimulation. 2017 , 11, 11	18
290	Dynamiceuticals: The Next Stage in Personalized Medicine. 2017 , 11, 329	3
289	The Controller Design of the Epilepsy Therapy Apparatus. 2017 , 2017, 1-8	2
288	Decoding of Human Movements Based on Deep Brain Local Field Potentials Using Ensemble Neural Networks. 2017 , 2017, 5151895	2
287	Internal Structures of the Globus Pallidus in Patients with Parkinson's Disease: Evaluation with Phase Difference-enhanced Imaging. 2017 , 16, 304-310	9
286	Subthalamic Nucleus Deep Brain Stimulation: Basic Concepts and Novel Perspectives. 2017 , 4,	69
285	Global network modulation during thalamic stimulation for Tourette syndrome. 2018 , 18, 502-509	14
284	Intrinsic optical imaging study on cortical responses to electrical stimulation in ventral posterior medial nucleus of thalamus. 2018 , 1684, 40-49	3

283	1024-Pixel CMOS Multimodality Joint Cellular Sensor/Stimulator Array for Real-Time Holistic Cellular Characterization and Cell-Based Drug Screening. 2018 , 12, 80-94		27
282	Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues. 2018 , 51, 309-318		57
281	Activation of the subthalamic nucleus suppressed by high frequency stimulation: A c-Fos immunohistochemical study. 2018 , 1685, 42-50		2
280	Retinal Prosthesis. 2018 ,		5
279	Retinal Prostheses: A Brief History. 2018 , 1-22		1
278	Core-Shell-Shell Upconversion Nanoparticles with Enhanced Emission for Wireless Optogenetic Inhibition. 2018 , 18, 948-956		95
277	Extracellular Total Electrolyte Concentration Imaging for Electrical Brain Stimulation (EBS). <i>Scientific Reports</i> , 2018 , 8, 290	4.9	10
276	Neuronal inhibition and synaptic plasticity of basal ganglia neurons in Parkinson's disease. 2018 , 141, 177-190		52
275	Miniaturized-electroneurostimulators and self-powered/rechargeable implanted devices for electrical-stimulation therapy. 2018 , 41, 255-263		10
274	Instabilities and pattern formations in 3D-printed deformable fiber composites. 2018 , 148, 114-122		20
273	Toward adaptive deep brain stimulation in Parkinson's disease: a review. 2018 , 8, 115-136		7
272	Tissue-like Neural Probes for Understanding and Modulating the Brain. 2018 , 57, 3995-4004		24
271	Pleasure: The missing link in the regulation of sleep. 2018 , 88, 141-154		4
270	DIY tDCS: a need for an empirical look. 2018 , 5, 103-108		1
269	Pedunculopontine nucleus deep brain stimulation in Parkinson's disease: A clinical review. 2018 , 33, 10-20		98
268	Micromagnetic Stimulation of the Mouse Auditory Cortex In Vivo Using an Implantable Solenoid System. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1301-1310	5	14
267	Perturbation of whole-brain dynamics in silico reveals mechanistic differences between brain states. <i>NeuroImage</i> , 2018 , 169, 46-56	7.9	41
266	Differential release of dopamine in the nucleus accumbens evoked by low-versus high-frequency medial prefrontal cortex stimulation. 2018 , 11, 426-434		11

265	EKG-based detection of deep brain stimulation in fMRI studies. 2018 , 79, 2432-2439	8
264	A Wavelet-Based Correlation Analysis Framework to Study Cerebromuscular Activity in Essential Tremor. 2018 , 2018, 1-15	1
263	Approximate Computing Methods for Embedded Machine Learning. 2018 ,	13
262	Deep brain stimulation: An overview of history, methods, and future developments. 2018 , 2, 2398212818816017	17
261	Brain stimulation methods for pain treatment. 2018 , 37, 477-494	
260	Invasive Brain-Computer Interfaces and Neural Recordings From Humans. 2018 , 28, 527-539	4
259	Neural Prosthetics:A Review of Empirical vs. Systems Engineering Strategies. 2018 , 2018, 1435030	18
258	The Impact of Deep Brain Stimulation on a Simulated Neuron: Inhibition, Excitation, and Partial Recovery. 2018 ,	1
257	Realtime phase-amplitude coupling analysis of micro electrode recorded brain signals. 2018 , 13, e0204260	2
256	Deep Brain Stimulation for Alcoholism. 2018 , 1081-1087	
255	Theoretical Principles of Multiscale Spatiotemporal Control of Neuronal Networks: A Complex Systems Perspective. 2018 , 12, 81	1
254	Optimal waveform for entrainment of a spiking neuron with minimum stimulating charge. 2018 , 98,	9
253	Long-Lasting Electrophysiological After-Effects of High-Frequency Stimulation in the Globus Pallidus: Human and Rodent Slice Studies. 2018 , 38, 10734-10746	8
252	Buckling and post-buckling of an elastic rod embedded in a bilayer matrix. 2018 , 25, 1-6	2
251	A guide towards long-term functional electrodes interfacing neuronal tissue. 2018 , 15, 061001	22
250	Multi-parametric cell profiling with a CMOS quad-modality cellular interfacing array for label-free fully automated drug screening. 2018 , 18, 3037-3050	18
249	Striatal dopamine regulates systemic glucose metabolism in humans and mice. 2018 , 10,	50
248	Recent Advances in Materials, Devices, and Systems for Neural Interfaces. <i>Advanced Materials</i> , 2018 , 30, e1800534	24 104

247	Functional Connectivity-Based Modelling Simulates Subject-Specific Network Spreading Effects of Focal Brain Stimulation. 2018 , 34, 921-938		6
246	Anatomical Correlates of Uncontrollable Laughter With Unilateral Subthalamic Deep Brain Stimulation in Parkinson's Disease. 2018 , 9, 341		3
245	Neurofeedback and the Neural Representation of Self: Lessons From Awake State and Sleep. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 142	3-3	9
244	The Relationship Between Dopamine Neurotransmitter Dynamics and the Blood-Oxygen-Level-Dependent (BOLD) Signal: A Review of Pharmacological Functional Magnetic Resonance Imaging. 2018 , 12, 238		13
243	A minimally invasive neurostimulation method for controlling abnormal synchronisation in the neuronal activity. 2018 , 14, e1006296		5
242	Dosing of Electrical Parameters in Deep Brain Stimulation (DBS) for Intractable Depression: A Review of Clinical Studies. 2018 , 9, 302		36
241	Removing deep brain stimulation artifacts from the electroencephalogram: Issues, recommendations and an open-source toolbox. 2018 , 129, 2170-2185		18
240	Deep Brain Stimulation of the Memory Circuit: Improving Cognition in Alzheimer's Disease. 2018 , 64, 337-347		7
239	Preventing morphine reinforcement with high-frequency deep brain stimulation of the lateral hypothalamic area. 2019 , 24, 685-695		4
238	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. 2019 , 293, 174-183		33
237	Toward a closed-loop deep brain stimulation in Parkinson's disease using local field potential in parkinsonian rat model. 2019 , 132, 109360		6
236	Stimulation of the Posterior Cingulate Cortex Impairs Episodic Memory Encoding. 2019 , 39, 7173-7182		23
235	Electrophysiological-mechanical coupling in the neuronal membrane and its role in ultrasound neuromodulation and general anaesthesia. 2019 , 97, 116-140		25
234	Elastic buckling analysis of an embedded infinitely long rod under combined axial and torsional loads. 2019 , 24, 3779-3794		
233	In Vivo Brain Sampling Using a Microextraction Probe Reveals Metabolic Changes in Rodents after Deep Brain Stimulation. 2019 , 91, 9875-9884		30
232	Lesion Studies in Contemporary Neuroscience. 2019 , 23, 653-671		62
231	Computational analysis of non-invasive deep brain stimulation based on interfering electric fields. 2019 , 64, 235010		7
230	Multifactorial motor behavior assessment for real-time evaluation of emerging therapeutics to treat neurologic impairments. <i>Scientific Reports</i> , 2019 , 9, 16503	4-9	7

229	The Effect of Sertoli Cells on Xenotransplantation and Allotransplantation of Ventral Mesencephalic Tissue in a Rat Model of Parkinson's Disease. 2019 , 8,	1
228	Cryogel-Based Electronic Tissue Interfaces with Soft, Highly Compressible, and Tunable Mechanics. 2019 , 304, 1900367	5
227	A low power FPGA based control unit for an implantable neuromodulation circuit. 2019 ,	
226	Awakening: Predicting external stimulation to force transitions between different brain states. 2019 , 116, 18088-18097	65
225	Precision electronic medicine in the brain. 2019 , 37, 1007-1012	32
224	Size and shape matter: The impact of voxel geometry on the identification of small nuclei. 2019 , 14, e0215382	22
223	Controllability and Its Applications to Biological Networks. 2019 , 34, 16-34	15
222	Deep Brain Stimulation for the Treatment of Resistant Depression: Systematic Review of the Literature. 2019 , 38, 183-198	
221	Consensus Paper: Experimental Neurostimulation of the Cerebellum. 2019 , 18, 1064-1097	60
220	The Insula: A Brain Stimulation Target for the Treatment of Addiction. 2019 , 10, 720	26
219	Investigation of Low-Current Direct Stimulation for Rehabilitation Treatment Related to Muscle Function Loss Using Self-Powered TENG System. 2019 , 6, 1900149	58
218	A design methodology for charge-balanced stimulators based on anodic current variation monitoring. 2019 , 101, 341-350	1
217	Protocol for suppression of phase synchronization in Hodgkin-Huxley-type networks. 2019 , 528, 121388	1
216	Regulating the Use of Cognitive Enhancement: an Analytic Framework. 2019 , 12, 293-309	6
215	Deep Brain Stimulation for Obesity: A Review and Future Directions. 2019 , 13, 323	22
214	Soft High-Resolution Neural Interfacing Probes: Materials and Design Approaches. 2019 , 19, 2741-2749	35
213	Suppression of Phase Synchronization in Scale-Free Neural Networks Using External Pulsed Current Protocols. 2019 , 24, 46	1
212	Registration-based image enhancement improves multi-atlas segmentation of the thalamic nuclei and hippocampal subfields. 2019 , 59, 143-152	9

211	The physics of brain network structure, function and control. 2019 , 1, 318-332		84
210	Cellular, molecular, and clinical mechanisms of action of deep brain stimulation-a systematic review on established indications and outlook on future developments. 2019 , 11,		61
209	Electroceutical Residue-Free Graphene Device for Dopamine Monitoring and Neural Stimulation. 2019 , 5, 2013-2020		4
208	Bioresorbable Electronic Implants: History, Materials, Fabrication, Devices, and Clinical Applications. 2019 , 8, e1801660		53
207	Nongenetic optical neuromodulation with silicon-based materials. 2019 , 14, 1339-1376		35
206	Energy Cost of Action Potential Generation and Propagation in Thalamocortical Relay Neurons During Deep Brain Stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 3457-3471	5	2
205	Adaptive long-term control of biological neural networks with Deep Reinforcement Learning. 2019 , 342, 66-74		2
204	Processing and patterning of conducting polymers for flexible, stretchable, and biomedical electronics. 2019 , 817-842		6
203	On the (Non-)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. 2019 , 49, 1736-1749		32
202	Entorhinal cortex stimulation induces dentate gyrus neurogenesis through insulin receptor signaling. 2019 , 144, 75-84		11
201	Intelligent cyber-physical system for an efficient detection of Parkinson disease using fog computing. 2019 , 78, 32695-32719		19
200	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. 2019 , 3, 58-68		284
199	Eternal sunshine of the neuromodulated mind: Altering fear memories through neuromodulation. 2019 , 314, 9-19		13
198	Near-Infrared Manipulation of Membrane Ion Channels via Upconversion Optogenetics. 2019 , 3, e1800233		25
197	Advances in Neural Recording and Stimulation Devices. 2019 , 335-363		2
196	Fornix deep brain stimulation induces reduction of hippocampal synaptophysin levels. 2019 , 96, 34-40		3
195	Effects of deep brain stimulation on the primary motor cortex: Insights from transcranial magnetic stimulation studies. 2019 , 130, 558-567		6
194	Technobiology's Enabler: The Magnetoelectric Nanoparticle. 2019 , 9,		7

193	Deep brain stimulation of the orbitofrontal cortex prevents the development and reinstatement of morphine place preference. 2020 , 25, e12780	7
192	Electrical high frequency stimulation of the nucleus accumbens shell does not modulate depressive-like behavior in rats. 2020 , 378, 112277	4
191	Stimulation-induced side effects after deep brain stimulation - a systematic review. 2020 , 32, 57-64	14
190	Deep brain stimulation for major depression: A prototype of a personalized treatment in psychiatry. 2020 , 83-89	
189	3D printed nanomaterial-based electronic, biomedical, and bioelectronic devices. 2020 , 31, 172001	22
188	Non-invasive ultrasonic modulation of visual evoked response by GABA delivery through the blood brain barrier. 2020 , 318, 223-231	12
187	A charge balancing technique for neurostimulators. 2020 , 105, 483-496	2
186	Complex regional pain syndrome: An updated comprehensive review. 2020 , 47, 253-264	7
185	Bioinspired Materials for Bioelectronic Neural Interfaces. 2020 , 3, 1087-1113	20
184	Entrainment of a network of interacting neurons with minimum stimulating charge. 2020 , 102, 012221	1
183	Effects of Subthalamic Nucleus Deep Brain Stimulation on Facial Emotion Recognition in Parkinson's Disease: A Critical Literature Review. 2020 , 2020, 4329297	3
182	Organic Photovoltaic Pseudocapacitors for Neurostimulation. 2020 , 12, 42997-43008	18
181	Development of Magnetic Torque Stimulation (MTS) Utilizing Rotating Uniform Magnetic Field for Mechanical Activation of Cardiac Cells. 2020 , 10,	3
180	Using Deep Brain Stimulation to Unravel the Mysteries of Cardiorespiratory Control. 2020 , 10, 1085-1104	4
179	Bioelectronics with graphene nanostructures. 2020 , 8, 100906	7
178	Neurolight: A Deep Learning Neural Interface for Cortical Visual Prostheses. 2020 , 30, 2050045	18
177	Multivariate pattern classification on BOLD activation pattern induced by deep brain stimulation in motor, associative, and limbic brain networks. <i>Scientific Reports</i> , 2020 , 10, 7528	4-9 2
176	Activity pattern analysis of the subthalamopallidal network under ChannelRhodopsin-2 and Halorhodopsin photocurrent control. 2020 , 138, 109963	2

175	Optimal Parameters of Deep Brain Stimulation in Essential Tremor: A Meta-Analysis and Novel Programming Strategy. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
174	Conducting Polymer Mediated Electrical Stimulation Induces Multilineage Differentiation with Robust Neuronal Fate Determination of Human Induced Pluripotent Stem Cells. 2020 , 9,		12
173	Neuronal Degeneration Impairs Rhythms Between Connected Microcircuits. 2020 , 14, 18		6
172	Emerging Modalities and Implantable Technologies for Neuromodulation. 2020 , 181, 115-135		64
171	Neural oscillations and brain stimulation in Alzheimer's disease. 2020 , 194, 101878		19
170	Electrical stimulation of cranial nerves in cognition and disease. 2020 , 13, 717-750		31
169	Flexible potentiometric pH sensors for wearable systems.. 2020 , 10, 8594-8617		70
168	Biointegrated and Wirelessly Powered Implantable Brain Devices: A Review. 2020 , 14, 343-358		39
167	The Paradoxical Effect of Deep Brain Stimulation on Memory. 2020 , 11, 179-190		8
166	Oscillotherapeutics - Time-targeted interventions in epilepsy and beyond. 2020 , 152, 87-107		14
165	. 2020 , 14, 23-29		4
164	Rodent models for psychiatric disorders: problems and promises. 2020 , 36, 9		7
163	Electronic neural interfaces. 2020 , 3, 191-200		43
162	Spherical Array System for High-Precision Transcranial Ultrasound Stimulation and Optoacoustic Imaging in Rodents. 2021 , 68, 107-115		6
161	Optimizing Deep Brain Stimulation Parameters in Obsessive-Compulsive Disorder. 2021 , 24, 307-315		10
160	Neuromodulation in Psychiatric disorders: Experimental and Clinical evidence for reward and motivation network Deep Brain Stimulation: Focus on the medial forebrain bundle. 2021 , 53, 89-113		10
159	Recent advances in three-dimensional microelectrode array technologies for in vitro and in vivo cardiac and neuronal interfaces. 2021 , 171, 112687		22
158	The use of passive cable theory to increase the threshold of nociceptors in people with chronic pain. 2021 , 26, 53-63		1

157	Double Split Rings as Extremely Small and Tuneable Antennas for Brain Implantable Wireless Medical Microsystems. 2021 , 69, 760-768		9
156	The rostro-caudal gradient in the prefrontal cortex and its modulation by subthalamic deep brain stimulation in Parkinson's disease. <i>Scientific Reports</i> , 2021 , 11, 2138	4.9	1
155	Deep Brain Stimulation of the Lateral Hypothalamus Facilitates Extinction and Prevents Reinstatement of Morphine Place Preference in Rats. 2021 , 24, 240-247		0
154	Increased sensitivity to strong perturbations in a whole-brain model of LSD.		
153	Realistic Means of Enhancing Morality and Why Compulsory MBE is Ineffective. 2021 , 49-60		
152	Powering Implantable and Ingestible Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2009289	15.6	18
151	Role of the Anterior Cingulate Cortex in Translational Pain Research. 2021 , 37, 405-422		4
150	Long-term stimulation of the anteromedial thalamus increases hippocampal neurogenesis and spatial reference memory in adult rats. 2021 , 402, 113114		1
149	Green Fabrication of (6,5)Carbon Nanotube/Protein Transistor Endowed with Specific Recognition. 2021 , 7, 2001114		2
148	Deep Brain Stimulation for Alzheimer's Disease: Stimulation Parameters and Potential Mechanisms of Action. 2021 , 13, 619543		10
147	Deep-learning based fully automatic segmentation of the globus pallidus interna and externa using ultra-high 7 Tesla MRI. 2021 , 42, 2862-2879		5
146	Experimental investigation into the role of the subthalamic nucleus (STN) in motor control using optogenetics in mice. 2021 , 1755, 147226		1
145	The Future of Neuroscience: Flexible and Wireless Implantable Neural Electronics. 2021 , 8, 2002693		12
144	Pupil Dilation and the Slow Wave ERP Reflect Surprise about Choice Outcome Resulting from Intrinsic Variability in Decision Confidence. 2021 , 31, 3565-3578		0
143	Increased sensitivity to strong perturbations in a whole-brain model of LSD. <i>NeuroImage</i> , 2021 , 230, 117809		4
142	Device profile of the percept PC deep brain stimulation system for the treatment of Parkinson's disease and related disorders. 2021 , 18, 319-332		12
141	Deep brain stimulation of the "medial forebrain bundle": a strategy to modulate the reward system and manage treatment-resistant depression. 2021 ,		4
140	PEDOT:PSS-Based Bioelectronic Devices for Recording and Modulation of Electrophysiological and Biochemical Cell Signals. 2021 , 10, e2100061		26

139	Predicting optimal deep brain stimulation parameters for Parkinson's disease using functional MRI and machine learning. 2021 , 12, 3043		29
138	Gateway reflexes, neuronal circuits that regulate the gateways for autoreactive T cells in organs that have blood barriers. 2021 ,		1
137	High-Frequency Deep Brain Stimulation of the Substantia Nigra Pars Reticulata Facilitates Extinction and Prevents Reinstatement of Methamphetamine-Induced Conditioned Place Preference. 2021 , 12, 705813		3
136	Functional analysis of distinct populations of subthalamic nucleus neurons on Parkinson's disease and OCD-like behaviors in mice. 2021 ,		1
135	Nano- and Microscale Optical and Electrical Biointerfaces and Their Relevance to Energy Research. <i>Small</i> , 2021 , 17, e2100165	11	4
134	Brain signaling dynamics after vagus nerve stimulation.		0
133	Driving Oscillatory Dynamics: Neuromodulation for Recovery After Stroke. 2021 , 15, 712664		0
132	Suppression of synchronous spiking in two interacting populations of excitatory and inhibitory quadratic integrate-and-fire neurons. 2021 , 104, 014203		2
131	Binary mixtures of locally coupled mobile oscillators. 2021 , 104, 014204		0
130	Deep Brain Stimulation for Pediatric Dystonia. 2021 , 38, 100896		4
129	The Medial Septum as a Potential Target for Treating Brain Disorders Associated With Oscillopathies. 2021 , 15, 701080		3
128	The Rules of Pulsatile Neurostimulation.		0
127	On the edge of criticality: strength-dependent perturbation unveils delicate balance between fluctuation and oscillation in brain dynamics.		1
126	Magnetothermal nanoparticle technology alleviates parkinsonian-like symptoms in mice. 2021 , 12, 5569		5
125	Full-field MRI measurements of in-vivo positional brain shift reveal the significance of intra-cranial geometry and head orientation for stereotactic surgery. <i>Scientific Reports</i> , 2021 , 11, 17684	4.9	2
124	Combined neuromodulatory approaches in the central nervous system for treatment of spinal cord injury. 2021 , 34, 804-811		0
123	Electrical Characterization of the Tongue and the Soft Palate Using Lumped-Element Model for Intraoral Neuromodulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 3151-3160	5	2
122	Electrical stimulation in animal models of epilepsy: A review on cellular and electrophysiological aspects. 2021 , 285, 119972		0

121	Surgical treatment of Parkinson disease and other movement disorders. 2021 , 204-233.e18	
120	Parkinson Disease. 2021 , 109-133	
119	Upconversion Nanoparticle-Mediated Optogenetics. 2021 , 1293, 641-657	2
118	A Guide to Fluorescence Lifetime Microscopy and Förster's Resonance Energy Transfer in Neuroscience. 2020 , 94, e108	4
117	Flexible Electrode for Implantable Neural Devices. 2014 , 121-156	4
116	Deep Brain Stimulation for Obsessive-Compulsive Disorder and Major Depressive Disorder. 2016 , 141-163	4
115	Mechanisms of Deep Brain Stimulation. 2020 , 29-37	1
114	Deep brain stimulation for psychiatric disorders--state of the art. 2009 , 34, 37-57	32
113	Mechanism of DBS: Inhibition, Excitation, or Disruption?. 2015 , 13-20	3
112	When Photons Meet Protons: Optogenetics, Calcium Signal Detection, and fMRI in Small Animals. 2017 , 773-791	2
111	Stimulation Physiology in Functional Neurosurgery. 2009 , 1383-1399	3
110	On Representing Evidence. 2014 , 101-118	1
109	Deep Brain Stimulation. 2011 , 975-986	2
108	Mesh electronics: a new paradigm for tissue-like brain probes. 2018 , 50, 33-41	85
107	Pupil dilation and the slow wave ERP reflect surprise about choice outcome resulting from intrinsic variability in decision confidence.	1
106	Non-invasive ultrasonic modulation of visual evoked response by GABA delivery through the blood brain barrier.	1
105	Update on Neuromodulation for Treatment-Resistant Depression. 2015 , 4,	25
104	A multiscale cerebral neurochemical connectome of the rat brain. 2017 , 15, e2002612	29

103	Autonomous Optimization of Targeted Stimulation of Neuronal Networks. 2016 , 12, e1005054	10
102	Interactive responses of a thalamic neuron to formalin induced lasting pain in behaving mice. 2012 , 7, e30699	22
101	Artificial theta stimulation impairs encoding of contextual fear memory. 2012 , 7, e48506	10
100	Discrete pattern of burst stimulation in the ventrobasal thalamus for anti-nociception. 2013 , 8, e67655	18
99	High frequency stimulation of the subthalamic nucleus leads to presynaptic GABA(B)-dependent depression of subthalamo-nigral afferents. 2013 , 8, e82191	11
98	Deep Brain Stimulation of the Pedunclopontine Tegmental Nucleus (PPN) Influences Visual Contrast Sensitivity in Human Observers. 2016 , 11, e0155206	7
97	Electric Field Application Regulates Neural Precursor Cell Behavior in the Adult Mammalian Forebrain. 2020 , 7,	5
96	Tinnitus: Is there a place for brain stimulation?. 2016 , 7, S125-9	8
95	Magnetolectric effect: principles and applications in biology and medicine- a review. 2021 , 12, 100149	9
94	A Neuroscience Primer for Integrating Geroscience with the Neurobiology of Aging. 2021 ,	1
93	Structure-function similarities in deep brain stimulation targets cross-species. 2021 , 131, 1127-1135	
92	Unifying turbulent dynamics framework distinguishes different brain states.	2
91	Neurotechnology. 2009 , 187-198	
90	Microelectrode Technologies for Deep Brain Stimulation. 2009 , 195-219	
89	Deep Brain Stimulation. 2011 , 301-307	
88	Encyclopedia of Computational Neuroscience. 2014 , 1-4	
87	Biomarkers and Neurodegenerative Diseases: Promising Inroads Toward a Distant Goal. 2014 , 433-459	
86	Activity Regulation in the Study of Neural Plasticity. 2015 , 291-304	

85 DBS in historisch perspectief. **2016**, 1-9

84 Motivational Deficits in Parkinson Disease: Role of the Dopaminergic System and Deep-Brain Stimulation of the Subthalamic Nucleus. **2016**, 363-388

83 Theoretical principles of multiscale spatiotemporal control of neuronal networks: a complex systems perspective.

82 Biofield Devices. **2017**, 317-362

81 A Meta-analysis of the Effectiveness of Acupuncture for the Treatment of Essential Tremors. **2017**, 38, 419-432 2

80 Resting-state connectivity predicts patient-specific effects of deep brain stimulation for Parkinson disease.

79 Invasive Therapies in Multiple Sclerosis. **2018**, 55, S21-S25

78 Basal Forebrain Deep Brain Stimulation Impacts the Regulation of Extracellular Vesicle Related Proteins in the Rat Brain.

77 ? Principles of Magnetic Resonance Imaging. **2018**, 142-165

76 ? New Horizons in Biomagnetics and Bioimaging. **2018**, 326-341

75 Effects of Regular and Irregular Deep Brain Stimulation on the Basal Ganglia Dynamics: A Computational Approach. *The Neuroscience Journal of Shefaye Khatam*, **2019**, 7, 1-12 0.1 1

74 Multivariate pattern classification on BOLD activation pattern induced by deep brain stimulation in motor, associative, and limbic brain networks.

73 Multifactorial motor behavior assessment for real-time evaluation of emerging therapeutics to treat neurologic impairments.

72 [Tourette syndrome: Research challenges to improve clinical practice]. *L'Encephale*, **2020**, 46, 146-152 2.9

71 Functional Analysis of Distinct Populations of Subthalamic Nucleus Neurons on Parkinson Disease and OCD-like Behaviors in Mice. 1

70 Optogenetic investigation into the role of the subthalamic nucleus in motor control. 1

69 Excitatory Deep Brain Stimulation Quenches Parkinsonian Signs in the Basal Ganglia and Thalamus.

68 Non-resective Epilepsy Surgery. **2020**, 265-330

67	The History of Deep Brain Stimulation. 2020 , 3-13		0
66	Fine Temporal Structure of Synchronization of Neural Oscillations in the Basal Ganglia in Parkinson's Disease. 2020 , 1-7		
65	Brain signaling dynamics after vagus nerve stimulation. <i>NeuroImage</i> , 2021 , 245, 118679	7.9	1
64	Deep-learning based fully automatic segmentation of the globus pallidus interna and externa using ultra-high 7 Tesla MRI.		
63	A Framework for Engineering the Collective Behavior of Complex Rhythmic Systems. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9416	3.9	2
62	Neural stimulation technologies. 2022 , 235-254		1
61	Stimulationsverfahren und Neurofeedback: neue Möglichkeiten zur Therapie und Rehabilitation?. <i>PID - Psychotherapie Im Dialog</i> , 2021 , 22, 39-44	0.2	
60	Deep Brain Stimulation of the Forel's Field for Dystonia: Preliminary Results.. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 768057	3.3	0
59	Using diffusion tensor imaging to effectively target TMS to deep brain structures.. <i>NeuroImage</i> , 2021 , 118863	7.9	0
58	A new frontier in switchable bioelectronics and bionanotechnology interfaces. 2022 , 25-42		
57	Multiferroic, magnetic, and magnetoelectric nanomaterials for medical applications. 2022 , 469-484		
56	Review of Noninvasive or Minimally Invasive Deep Brain Stimulation.. <i>Frontiers in Behavioral Neuroscience</i> , 2021 , 15, 820017	3.5	1
55	Methodological Considerations for Setting Up Deep Brain Stimulation Studies for New Indications.. <i>Journal of Clinical Medicine</i> , 2022 , 11,	5.1	0
54	Hetero-Integration of Silicon Nanomembranes with 2D Materials for Bioresorbable, Wireless Neurochemical System.. <i>Advanced Materials</i> , 2022 , e2108203	24	3
53	SMART on FHIR. 2022 , 293-325		0
52	Piezoelectric nanogenerators for personalized healthcare.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	23
51	Bifurcations in the firing of neuronal population caused by a small difference in pulse parameters during sustained stimulations in rat hippocampus in vivo.. <i>IEEE Transactions on Biomedical Engineering</i> , 2022 , PP,	5	0
50	Nanostructured Carbons: towards Soft-Bioelectronics, Biosensing and Therapeutic Applications.. <i>Chemical Record</i> , 2022 , e202100319	6.6	1

49	A remote diagnosis of Parkinson's ailment using artificial intelligence based BPNN framework and cloud based storage architecture for securing data in cloud environment for the application of telecommunication technologies. <i>Computational Intelligence</i> ,	2.5	
48	Flexible Electronics and Devices as Human-Machine Interfaces for Medical Robotics.. <i>Advanced Materials</i> , 2021 , e2107902	24	26
47	Highly Conducting and Stretchable Double Network Hydrogel for Soft Bioelectronics.. <i>Advanced Materials</i> , 2022 , e2200261	24	19
46	Focal Non-invasive Deep-brain Stimulation with Temporal Interference for the Suppression of Epileptic Biomarkers.		0
45	Low-Noise Amplifier for Deep-Brain Stimulation (DBS). <i>Electronics (Switzerland)</i> , 2022 , 11, 939	2.6	0
44	Gentle Patterning Approaches toward Compatibility with Bio-Organic Materials and Their Environmental Aspects.. <i>Small</i> , 2022 , e2200476	11	2
43	The Convergence Model of Brain Reward Circuitry: Implications for Relief of Treatment-Resistant Depression by Deep-Brain Stimulation of the Medial Forebrain Bundle.. <i>Frontiers in Behavioral Neuroscience</i> , 2022 , 16, 851067	3.5	0
42	Diving into the Subcortex: The Potential of Chronic Subcortical Sensing for Unravelling Basal Ganglia Function and Optimization of Deep Brain STIMULATION.. <i>NeuroImage</i> , 2022 , 119147	7.9	0
41	Charge-Pump Circuit in 65nm CMOS for Neural Stimulation on Deep-Brain Stimulation. 2021 ,		
40	Wearable Bioelectronics for Chronic Wound Management. <i>Advanced Functional Materials</i> , 2111022	15.6	19
39	Brain pathological changes during neurodegenerative diseases and their identification methods: How does QSM perform in detecting this process?. <i>Insights Into Imaging</i> , 2022 , 13, 74	5.6	0
38	Data_Sheet_1.docx. 2020 ,		
37	Deep brain stimulation of the thalamus restores signatures of consciousness in a nonhuman primate model.. <i>Science Advances</i> , 2022 , 8, eabl5547	14.3	2
36	Excitatory deep brain stimulation quenches beta oscillations arising in a computational model of the subthalamo-pallidal loop.. <i>Scientific Reports</i> , 2022 , 12, 7845	4.9	0
35	State-dependent effects of neural stimulation on brain function and cognition.. <i>Nature Reviews Neuroscience</i> , 2022 ,	13.5	0
34	Things you wanted to know (but might have been afraid to ask) about how and why to explore and modulate brain plasticity with non-invasive neurostimulation technologies. <i>Revue Neurologique</i> , 2022 ,	3	0
33	Fine Temporal Structure of Synchronization of Neural Oscillations in the Basal Ganglia in Parkinson Disease. 2022 , 1417-1423		
32	Computational Models Supporting Parameter Finding for Deep Brain Stimulation. 2022 , 935-938		

31	Unifying turbulent dynamics framework distinguishes different brain states. <i>Communications Biology</i> , 2022 , 5,	6.7	1
30	Advances in human intracranial electroencephalography research, guidelines and good practices. <i>NeuroImage</i> , 2022 , 119438	7.9	1
29	Functional electrospun polymeric materials for bioelectronic devices: a review.		2
28	Implantable acousto-optic window for monitoring ultrasound-mediated neuromodulation in vivo. 2022 , 9,		
27	Organic Neuro-Electronics: From Neural Interface to Neuroprosthetics. 2201864		1
26	Multitasking smart hydrogels based on the combination of alginate and poly(3,4-ethylenedioxythiophene) properties: A review. 2022 , 219, 312-332		0
25	A PVT-Robust AFE-Embedded Error-Feedback Noise-Shaping SAR ADC with Chopper-Based Passive High-Pass IIR Filtering for Direct Neural Recording. 2022 , 1-13		0
24	Preclinical study of Therapeutic application of Sertoli Cells transplantation for treatment of Neurodegenerative Diseases: A Systematic Review.		0
23	Nanomedicine and nanobiotechnology applications of magnetoelectric nanoparticles.		0
22	Hybrid graphene electrode for diagnosis and treatment of epilepsy in free-moving animal models.		0
21	Intracranial direct electrical mapping reveals the functional architecture of the human basal ganglia. 2022 , 5,		0
20	Strength-dependent perturbation of whole-brain model working in different regimes reveals the role of fluctuations in brain dynamics. 2022 , 18, e1010662		0
19	Deep brain stimulation of the lateral hypothalamus to block morphine reward: Does the intensity of stimulation matter?. 2023 , 437, 114159		0
18	Accelerated testing of electrode degradation for validation of new implantable neural interfaces. 2022 ,		0
17	Galvanic vestibular stimulation down-regulated NMDA receptors in vestibular nucleus of PD model. 2022 , 12,		0
16	Radio-frequency induced heating of intra-cranial EEG electrodes: The more the colder?. 2022 , 264, 119691		0
15	Dynamic sensitivity analysis: Defining personalised strategies to drive brain state transitions via whole brain modelling. 2023 , 21, 335-345		0
14	Applications of Microwaves in Medicine. 2022 , 1-36		1

- | | | |
|----|--|---|
| 13 | Deep brain stimulation by bloodBrain-barrier-crossing piezoelectric nanoparticles generating current and nitric oxide under focused ultrasound. | 1 |
| 12 | Fornix degeneration in risk factors of Alzheimer's disease, possible trigger of cognitive decline.. 2023 , 100158 | 0 |
| 11 | Commonly Overlooked Factors in Biocompatibility Studies of Neural Implants. 2205095 | 0 |
| 10 | A Case Report of Acupotomy and Herbal Medicine Treatment for Patient with Essential Head Tremor. 2022 , 6, 109-116 | 0 |
| 9 | Water-soluble conjugated polymers for bioelectronic systems. | 0 |
| 8 | From disabled tourists to impaired cyborg tourists: What would it take to transform?. | 0 |
| 7 | Cell class-specific electric field entrainment of neural activity. | 0 |
| 6 | Hybrid graphene electrode for the diagnosis and treatment of epilepsy in free-moving animal models. 2023 , 15, | 0 |
| 5 | Low-intensity ultrasound stimulation modulates time-frequency patterns of cerebral blood oxygenation and neurovascular coupling of mouse under peripheral sensory stimulation state. 2023 , 270, 119979 | 0 |
| 4 | An Optimal Data-Driven Method for Controlling Epileptic Seizures. 2022 , | 0 |
| 3 | Flexible and smart electronics for single-cell resolved brainMachine interfaces. 2023 , 10, 011314 | 0 |
| 2 | A systematic review of the effects of transcranial photobiomodulation on brain activity in humans. 2023 , | 0 |
| 1 | Optical neuromodulation at all scales: from nanomaterials to wireless optoelectronics and integrated systems. | 0 |