Jaimie M Henderson

List of Publications by Year
in descending order

129	13,606	41344 49	24258 110
papers	citations	h-index	g-index

144	144	144	11520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrical stimulation of the anterior nucleus of thalamus for treatment of refractory epilepsy. Epilepsia, 2010, 51, 899-908.	5.1	1,494
2	Optical Deconstruction of Parkinsonian Neural Circuitry. Science, 2009, 324, 354-359.	12.6	1,385
3	Deep Brain Stimulation for Parkinson Disease. Archives of Neurology, 2011, 68, 165.	4.5	776
4	Long-term efficacy and safety of thalamic stimulation for drug-resistant partial epilepsy. Neurology, 2015, 84, 1017-1025.	1.1	594
5	AAV2-GAD gene therapy for advanced Parkinson's disease: a double-blind, sham-surgery controlled, randomised trial. Lancet Neurology, The, 2011, 10, 309-319.	10.2	582
6	Patient-specific analysis of the volume of tissue activated during deep brain stimulation. NeuroImage, 2007, 34, 661-670.	4.2	438
7	High-performance brain-to-text communication via handwriting. Nature, 2021, 593, 249-254.	27.8	409
8	Inferring single-trial neural population dynamics using sequential auto-encoders. Nature Methods, 2018, 15, 805-815.	19.0	388
9	Subcallosal cingulate deep brain stimulation for treatment-resistant depression: a multisite, randomised, sham-controlled trial. Lancet Psychiatry,the, 2017, 4, 839-849.	7.4	382
10	High performance communication by people with paralysis using an intracortical brain-computer interface. ELife, 2017, 6, .	6.0	367
11	Clinical translation of a high-performance neural prosthesis. Nature Medicine, 2015, 21, 1142-1145.	30.7	269
12	Advanced Neurotechnologies for Chronic Neural Interfaces: New Horizons and Clinical Opportunities. Journal of Neuroscience, 2008, 28, 11830-11838.	3.6	256
13	The STN beta-band profile in Parkinson's disease is stationary and shows prolonged attenuation after deep brain stimulation. Experimental Neurology, 2009, 215, 20-28.	4.1	256
14	Permanent Neurological Deficit Related to Magnetic Resonance Imaging in a Patient with Implanted Deep Brain Stimulation Electrodes for Parkinson's Disease: Case Report. Neurosurgery, 2005, 57, E1063-E1063.	1.1	253
15	Virtual typing by people with tetraplegia using a self-calibrating intracortical brain-computer interface. Science Translational Medicine, 2015, 7, 313ra179.	12.4	249
16	Gene delivery of neurturin to putamen and substantia nigra in <scp>P</scp>arkinson disease: A doubleâ€blind, randomized, controlled trial. Annals of Neurology, 2015, 78, 248-257.	5.3	224
17	Beta oscillations in freely moving Parkinson's subjects are attenuated during deep brain stimulation. Movement Disorders, 2015, 30, 1750-1758.	3.9	208
18	High frequency deep brain stimulation attenuates subthalamic and cortical rhythms in Parkinson's disease. Frontiers in Human Neuroscience, 2012, 6, 155.	2.0	205

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19	Frameless stereotaxy using bone fiducial markers for deep brain stimulation. Journal of Neurosurgery, 2005, 103, 404-413.	1.6	180
20	Neurostimulation System Used for Deep Brain Stimulation (DBS). Investigative Radiology, 2004, 39, 300-303.	6.2	177
21	Transcranial MRI-Guided Focused Ultrasound: A Review of the Technologic and Neurologic Applications. American Journal of Roentgenology, 2015, 205, 150-159.	2.2	175
22	Probabilistic analysis of activation volumes generated during deep brain stimulation. NeuroImage, 2011, 54, 2096-2104.	4.2	155
23	Deep posteromedial cortical rhythm in dissociation. Nature, 2020, 586, 87-94.	27.8	145
24	Î±-Synuclein Suppression by Targeted Small Interfering RNA in the Primate Substantia Nigra. PLoS ONE, 2010, 5, e12122.	2.5	138
25	Challenges and Opportunities for Next-Generation Intracortically Based Neural Prostheses. IEEE Transactions on Biomedical Engineering, 2011, 58, 1891-1899.	4.2	137
26	A prospective trial of magnetic resonanceâ€“guided focused ultrasound thalamotomy for essential tremor: Results at the 2â€year followâ€up. Annals of Neurology, 2018, 83, 107-114.	5.3	120
27	Failure modes of spinal cord stimulation hardware. Journal of Neurosurgery: Spine, 2006, 5, 183-190.	1.7	115
28	Incidence and Avoidance of Neurologic Complications with Paddle Type Spinal Cord Stimulation Leads. Neuromodulation, 2011, 14, 412-422.	0.8	113
29	Hand posture classification using electrocorticography signals in the gamma band over human sensorimotor brain areas. Journal of Neural Engineering, 2013, 10, 026002.	3.5	113
30	Cortical control of a tablet computer by people with paralysis. PLoS ONE, 2018, 13, e0204566.	2.5	108
31	Long-Term Outcomes of Spinal Cord Stimulation With Paddle Leads in the Treatment of Complex Regional Pain Syndrome and Failed Back Surgery Syndrome. Neuromodulation, 2011, 14, 312-318.	0.8	104
32	Hand Knob Area of Premotor Cortex Represents the Whole Body in a Compositional Way. Cell, 2020, 181, 396-409.e26.	28.9	101
33	Is Magnetic Resonance Imaging Safe for Patients with Neurostimulation Systems Used for Deep Brain Stimulation?. Neurosurgery, 2005, 57, 1056-1062.	1.1	96
34	Assessment of brainâ€“machine interfaces from the perspective of people with paralysis. Journal of Neural Engineering, 2015, 12, 043002.	3.5	96
35	Awake versus asleep deep brain stimulation for Parkinsonâ€™s disease: a critical comparison and meta-analysis. Journal of Neurology, Neurosurgery and Psychiatry, 2018, 89, 687-691.	1.9	96
36	Rapid calibration of an intracortical brainâ€“computer interface for people with tetraplegia. Journal of Neural Engineering, 2018, 15, 026007.	3.5	95

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37	â€œConnectomic surgeryâ€: diffusion tensor imaging (DTI) tractography as a targeting modality for surgical modulation of neural networks. Frontiers in Integrative Neuroscience, 2012, 6, 15.	2.1	94
38	Stable long-term BCI-enabled communication in ALS and locked-in syndrome using LFP signals. Journal of Neurophysiology, 2018, 120, 343-360.	1.8	91
39	Bilateral symmetry and coherence of subthalamic nuclei beta band activity in Parkinson's disease. Experimental Neurology, 2010, 221, 260-266.	4.1	85
40	Home Use of a Percutaneous Wireless Intracortical Brain-Computer Interface by Individuals With Tetraplegia. IEEE Transactions on Biomedical Engineering, 2021, 68, 2313-2325.	4.2	83
41	Spinal Cord Stimulation Versus Re-operation in Patients With Failed Back Surgery Syndrome: An International Multicenter Randomized Controlled Trial (EVIDENCE Study). Neuromodulation, 2011, 14, 330-336.	0.8	81
42	Prevention of Mechanical Failures in Implanted Spinal Cord Stimulation Systems. Neuromodulation, 2006, 9, 183-191.	0.8	77
43	Long-term follow-up of a randomized AAV2-GAD gene therapy trial for Parkinsonâ€™s disease. JCI Insight, 2017, 2, e90133.	5.0	74
44	Power-saving design opportunities for wireless intracortical brainâ€“computer interfaces. Nature Biomedical Engineering, 2020, 4, 984-996.	22.5	66
45	Diffusion MRI tractography for improved transcranial MRI-guided focused ultrasound thalamotomy targeting for essential tremor. NeuroImage: Clinical, 2018, 19, 572-580.	2.7	64
46	Neural ensemble dynamics in dorsal motor cortex during speech in people with paralysis. ELife, 2019, 8, .	6.0	64
47	Laser interstitial thermal therapy (LITT): Seizure outcomes for refractory mesial temporal lobe epilepsy. Epilepsy and Behavior, 2018, 89, 37-41.	1.7	63
48	Recovery of Pain Control by Intensive Reprogramming after Loss of Benefit from Motor Cortex Stimulation for Neuropathic Pain. Stereotactic and Functional Neurosurgery, 2004, 82, 207-213.	1.5	61
49	Neural population dynamics in human motor cortex during movements in people with ALS. ELife, 2015, 4, e07436.	6.0	60
50	Subthalamic oscillations and phase amplitude coupling are greater in the more affected hemisphere in Parkinsonâ€™s disease. Clinical Neurophysiology, 2017, 128, 128-137.	1.5	57
51	Decoding spoken English from intracortical electrode arrays in dorsal precentral gyrus. Journal of Neural Engineering, 2020, 17, 066007.	3.5	52
52	Clinical Motor Outcome of Bilateral Subthalamic Nucleus Deep-Brain Stimulation for Parkinson's Disease Using Image-Guided Frameless Stereotaxy. Neurosurgery, 2010, 67, 1088-1093.	1.1	51
53	Impact of skull density ratio on efficacy and safety of magnetic resonanceâ€“guided focused ultrasound treatment of essential tremor. Journal of Neurosurgery, 2020, 132, 1392-1397.	1.6	50
54	The application accuracy of a skull-mounted trajectory guide system for image-guided functional neurosurgery. Computer Aided Surgery, 2004, 9, 155-160.	1.8	49

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55	An accurate and ergonomic method of registration for image-guided neurosurgery. Computerized Medical Imaging and Graphics, 1994, 18, 273-277.	5.8	44
56	Venous Air Embolism during Deep Brain Stimulation Surgery in an Awake Supine Patient. Stereotactic and Functional Neurosurgery, 2005, 83, 32-35.	1.5	44
57	Lack of Efficacy of Motor Cortex Stimulation for the Treatment of Neuropathic Pain in 14 Patients. Neuromodulation, 2014, 17, 303-311.	0.8	43
58	Transcranial MRIâ€guided highâ€intensity focused ultrasound for treatment of essential tremor: A pilot study on the correlation between lesion size, lesion location, thermal dose, and clinical outcome. Journal of Magnetic Resonance Imaging, 2018, 48, 58-65.	3.4	43
59	Feedback control policies employed by people using intracortical brainâ€“computer interfaces. Journal of Neural Engineering, 2017, 14, 016001.	3.5	41
60	Motor cortex stimulation and neuropathic facial pain. Neurosurgical Focus, 2006, 21, 1-4.	2.3	37
61	Frameless Localization for Functional Neurosurgical Procedures: A Preliminary Accuracy Study. Stereotactic and Functional Neurosurgery, 2004, 82, 135-141.	1.5	36
62	A Preliminary Study of Transient Confusional States following Bilateral Subthalamic Stimulation for Parkinsonâ€™s Disease. Stereotactic and Functional Neurosurgery, 2005, 83, 67-70.	1.5	35
63	CYBERKNIFE TARGETING THE PTERYGOPALATINE GANGLION FOR THE TREATMENT OF CHRONIC CLUSTER HEADACHES. Neurosurgery, 2007, 60, E580-E581.	1.1	34
64	Human Subthalamic Neuron Spiking Exhibits Subtle Responses to Sedatives. Anesthesiology, 2011, 115, 254-264.	2.5	33
65	Robot-assisted versus manual navigated stereoelectroencephalography in adult medically-refractory epilepsy patients. Epilepsy Research, 2020, 159, 106253.	1.6	33
66	A 12-Month Prospective Study of Gasserian Ganglion Stimulation for Trigeminal Neuropathic Pain. Stereotactic and Functional Neurosurgery, 2007, 85, 216-224.	1.5	31
67	A New Spinal Cord Stimulation System Effectively Relieves Chronic, Intractable Pain: A Multicenter Prospective Clinical Study. Neuromodulation, 2007, 10, 262-278.	0.8	30
68	NANS Training Requirements for Spinal Cord Stimulation Devices: Selection, Implantation, and Follow-up. Neuromodulation, 2009, 12, 171-174.	0.8	30
69	Deep brain stimulation surgical techniques. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2013, 116, 27-37.	1.8	30
70	Novel application of virtual reality in patient engagement for deep brainÂstimulation: A pilot study. Brain Stimulation, 2018, 11, 935-937.	1.6	29
71	Altered sense of self during seizures in the posteromedial cortex. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
72	Image-guided surgery. Current Problems in Surgery, 2015, 52, 476-520.	1.1	28

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73	Principled BCI Decoder Design and Parameter Selection Using a Feedback Control Model. Scientific Reports, 2019, 9, 8881.	3.3	28
74	Peripheral nerve stimulation for chronic pain. Current Pain and Headache Reports, 2008, 12, 28-31.	2.9	27
75	OPTOGENETIC NEUROMODULATION. Neurosurgery, 2009, 64, 796-804.	1.1	25
76	Optogenetic Neuromodulation. International Review of Neurobiology, 2012, 107, 185-205.	2.0	23
77	Improved Vim targeting for focused ultrasound ablation treatment of essential tremor: A probabilistic and patientâ€specific approach. Human Brain Mapping, 2020, 41, 4769-4788.	3.6	22
78	Maximal subthalamic beta hypersynchrony of the local field potential in Parkinson's disease is located in the central region of the nucleus. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 1387-1389.	1.9	21
79	Speech-related dorsal motor cortex activity does not interfere with iBCI cursor control. Journal of Neural Engineering, 2020, 17, 016049.	3.5	21
80	Combined stereotactic thalamotomy and posteroventral pallidotomy for Parkinson's disease. Journal of Image Guided Surgery, 1995, 1, 133-140.	0.3	21
81	OPTOGENETICS: BACKGROUND AND CONCEPTS FOR NEUROSURGERY. Neurosurgery, 2011, 69, 1-3.	1.1	20
82	The application accuracy of a skull-mounted trajectory guide system for image-guided functional neurosurgery. Computer Aided Surgery, 2004, 9, 155-160.	1.8	20
83	Sixty Hertz Neurostimulation Amplifies Subthalamic Neural Synchrony in Parkinsonâ€™s Disease. PLoS ONE, 2015, 10, e0121067.	2.5	20
84	‹title›Intraoperative localization using a three-dimensional optical digitizer‹/title›. , 1993, , .		19
85	A Socioeconomic Survey of Spinal Cord Stimulation (SCS) Surgery. Neuromodulation, 2010, 13, 265-269.	0.8	19
86	A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brainâ€“Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2018, 65, 2066-2078.	4.2	19
87	Socioeconomic Trends in Deep Brain Stimulation (DBS) Surgery. Neuromodulation, 2010, 13, 182-186.	0.8	18
88	Anatomy and physiology of chronic pain. Neurosurgery Clinics of North America, 2003, 14, 445-462.	1.7	17
89	Decoding Speech from Intracortical Multielectrode Arrays in Dorsal â€œArm/Hand Areasâ€•of Human Motor Cortex. , 2018, 2018, 93-97.		16
90	Neural Representation of Observed, Imagined, and Attempted Grasping Force in Motor Cortex of Individuals with Chronic Tetraplegia. Scientific Reports, 2020, 10, 1429.	3.3	16

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91	Lack of progression of beta dynamics after longâ€term subthalamic neurostimulation. Annals of Clinical and Translational Neurology, 2021, 8, 2110-2120.	3.7	15
92	Experience and consensus on stimulation of the anterior nucleus of thalamus for epilepsy. Epilepsia, 2021, 62, 2883-2898.	5.1	15
93	Predicting the Effects of Deep Brain Stimulation with Diffusion Tensor Based Electric Field Models. Lecture Notes in Computer Science, 2006, 9, 429-437.	1.3	14
94	Achieving Optimal Accuracy in Frameless Functional Neurosurgical Procedures. Stereotactic and Functional Neurosurgery, 2008, 86, 332-333.	1.5	13
95	Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brainâ€“Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2018, 65, 1771-1784.	4.2	12
96	Volitional control of single-electrode high gamma local field potentials by people with paralysis. Journal of Neurophysiology, 2019, 121, 1428-1450.	1.8	12
97	Vagal nerve stimulation versus deep brain stimulation for treatment-resistant depression: show me the data. Clinical Neurosurgery, 2007, 54, 88-90.	0.2	12
98	Epidural Hematoma Producing Brownâ€Sequard Syndrome: A Case Due to Ruptured Hemangioma with Magnetic Resonance Imaging Findings. Journal of Neuroimaging, 1996, 6, 62-63.	2.0	11
99	Recurrent Seizures Related to Motor Cortex Stimulator Programming. Neuromodulation, 2010, 13, 37-43.	0.8	11
100	Intracranial Hypotension from Intrathecal Baclofen Pump Insertion. Stereotactic and Functional Neurosurgery, 2008, 86, 75-79.	1.5	10
101	Signal-independent noise in intracortical brainâ€“computer interfaces causes movement time properties inconsistent with Fittsâ€™ law. Journal of Neural Engineering, 2017, 14, 026010.	3.5	9
102	The Neural Representation of Force across Grasp Types in Motor Cortex of Humans with Tetraplegia. ENeuro, 2021, 8, ENEURO.0231-20.2020.	1.9	9
103	Brain-machine interface cursor position only weakly affects monkey and human motor cortical activity in the absence of arm movements. Scientific Reports, 2018, 8, 16357.	3.3	8
104	Spinal Cord Stimulation Has Comparable Efficacy in Common Pain Etiologies. Neuromodulation, 2008, 11, 171-181.	0.8	7
105	Fluoroscopic Registration and Localization for Image-Guided Cranial Neurosurgical Procedures: A Feasibility Study. Stereotactic and Functional Neurosurgery, 2008, 86, 271-277.	1.5	7
106	Empiricism and Rights Justify the Allocation of Health Care Resources to Persons with Disorders of Consciousness. AJOB Neuroscience, 2021, 12, 169-171.	1.1	7
107	The Clinical and Research Ethics of Neuromodulation. Neuromodulation, 2006, 9, 250-252.	0.8	6
108	Does Ganglionectomy Still Have a Role in the Era of Neuromodulation?. World Neurosurgery, 2012, 77, 280-282.	1.3	5

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109	Anatomic and Thermometric Analysis of Cranial Nerve Palsy after Laser Amygdalohippocampotomy for Mesial Temporal Lobe Epilepsy. Operative Neurosurgery, 2020, 18, 684-691.	0.8	5
110	Effects of Peripheral Haptic Feedback on Intracortical Brain-Computer Interface Control and Associated Sensory Responses in Motor Cortex. IEEE Transactions on Haptics, 2021, 14, 762-775.	2.7	5
111	An internet-connected, patient-specific, deformable brain atlas integrated into a surgical navigation system. Journal of Digital Imaging, 1997, 10, 231-237.	2.9	4
112	Functional neurosurgical intervention: neuroethics in the operating room. , 2004, , 213-228.		4
113	Changes in the Cerebello-Thalamo-Cortical Network After Magnetic Resonance-Guided Focused Ultrasound Thalamotomy. Brain Connectivity, 2023, 13, 28-38.	1.7	4
114	The Role of Computer-Assisted Image-Guided Techniques. Seminars in Neurosurgery, 2001, 12, 175-182.	0.0	3
115	Motor Cortex Stimulation. , 2011, , 1831-1834.		2
116	Deep Brain Stimulation in â€œOnâ€•State Parkinson Hyperpyrexia. Neurology, 2011, 76, S69-71.	1.1	1
117	194â€ƒHigh Performance Computer Cursor Control Using Neuronal Ensemble Recordings From the Motor Cortex of a Person With ALS. Neurosurgery, 2013, 60, 184.	1.1	1
118	Instantaneous interactions between brain sites can distinguish movement from rest but are relatively poor at resolving different movement types. , 2014, 2014, 5200-3.		1
119	In Pursuit of Agency Ex Machina: Expanding the Map in Severe Brain Injury. AJOB Neuroscience, 2021, 12, 200-202.	1.1	1
120	Next-generation BCIs: Brain-to-text Communication via Attempted Handwriting. , 2022, , .		1
121	A Retrospective Cohort Study of Implantable Pulse Generator Surgical Site Infections After Deep Brain Stimulation Surgery With an Antibacterial Envelope. Neuromodulation, 2023, 26, 435-442.	0.8	1
122	Chronic access to endoneurial space using an arterial autograft. Journal of Neuroscience Methods, 1989, 27, 133-142.	2.5	0
123	Combined Stereotactic Thalamotomy and Posteroventral Pallidotomy for Parkinson's Disease. Computer Aided Surgery, 1995, 1, 133-140.	1.8	0
124	Growing with the Web: the Transition from theJournal of Image Guided Surgery to Computer Aided Surgery. Computer Aided Surgery, 1997, 2, 151-152.	1.8	0
125	Neuroaugmentation for chronic pain. Neurosurgery Clinics of North America, 2003, 14, ix-x.	1.7	0
126	National Survey of Outpatient Trials for Spinal Cord Stimulation (SCS). Neurosurgery, 2010, 67, 538.	1.1	0

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127	Commentary: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Deep Brain Stimulations for Obsessive Compulsive Disorder: Update of the 2014 Guidelines. Neurosurgery, 2021, 88, E550-E551.	1.1	0
128	Motor Cortex Stimulation for Pain Management. , 2007, , .		0
129	Image-Guided Brain Stimulation. , 2013, , 212-220.		0