Mojgan Hodaie

List of Publications by Year
in descending order

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122	4,168	101384	143772
papers	citations	36 h-index	57 g-index

127	127	127	4109
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in diagnosis, classification, pathophysiology, and management of trigeminal neuralgia. Lancet Neurology, The, 2020, 19, 784-796.	4.9	210
2	Tractographyâ€Based Ventral Intermediate Nucleus Targeting: Novel Methodology and Intraoperative Validation. Movement Disorders, 2016, 31, 1217-1225.	2.2	146
3	Outcomes from stereotactic surgery for essential tremor. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 474-482.	0.9	141
4	Abnormal trigeminal nerve microstructure and brain white matter in idiopathic trigeminal neuralgia. Pain, 2014, 155, 37-44.	2.0	136
5	Predicting optimal deep brain stimulation parameters for Parkinsonâ€™s disease using functional MRI and machine learning. Nature Communications, 2021, 12, 3043.	5.8	130
6	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. Brain, 2018, 141, 3405-3414.	3.7	129
7	The Nature and Time Course of Cortical Activation Following Subthalamic Stimulation in Parkinson's Disease. Cerebral Cortex, 2010, 20, 1926-1936.	1.6	125
8	Systematic review of hardware-related complications of Deep Brain Stimulation: Do new indications pose an increased risk?. Brain Stimulation, 2017, 10, 967-976.	0.7	118
9	Sensorimotor and Pain Modulation Brain Abnormalities in Trigeminal Neuralgia: A Paroxysmal, Sensory-Triggered Neuropathic Pain. PLoS ONE, 2013, 8, e66340.	1.1	105
10	Physiological mechanisms of thalamic ventral intermediate nucleus stimulation for tremor suppression. Brain, 2018, 141, 2142-2155.	3.7	96
11	Reversal of insular and microstructural nerve abnormalities following effective surgical treatment for trigeminal neuralgia. Pain, 2015, 156, 1112-1123.	2.0	92
12	Neuronal inhibition and synaptic plasticity of basal ganglia neurons in Parkinson's disease. Brain, 2018, 141, 177-190.	3.7	91
13	Stop-related subthalamic beta activity indexes global motor suppression in Parkinson's disease. Movement Disorders, 2016, 31, 1846-1853.	2.2	81
14	Deep brain stimulation for Parkinsonâ€™s disease: meta-analysis of results of randomized trials at varying lengths of follow-up. Journal of Neurosurgery, 2018, 128, 1199-1213.	0.9	81
15	Idiopathic intracranial hypertension. Neurology, 2018, 91, 515-522.	1.5	80
16	Gamma Knife Thalamotomy for Disabling Tremor. Archives of Neurology, 2010, 67, 584-8.	4.9	78
17	In Vivo Visualization of Cranial Nerve Pathways in Humans Using Diffusion-Based Tractography. Neurosurgery, 2010, 66, 788-796.	0.6	77
18	Negative childhood experiences alter a prefrontalâ€insularâ€motor cortical network in healthy adults: A preliminary multimodal rsfMRIâ€fMRIâ€MRSâ€dMRI study. Human Brain Mapping, 2015, 36, 4622-4637.	1.9	70

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19	Probabilistic Mapping of Deep Brain Stimulation: Insights from 15â€‰Years of Therapy. Annals of Neurology, 2021, 89, 426-443.	2.8	68
20	Enhanced synchronization of thalamic theta band local field potentials in patients with essential tremor. Experimental Neurology, 2009, 217, 171-176.	2.0	67
21	Predicting pain relief: Use of pre-surgical trigeminal nerve diffusion metrics in trigeminal neuralgia. NeuroImage: Clinical, 2017, 15, 710-718.	1.4	67
22	High-frequency microstimulation in human globus pallidus and substantia nigra. Experimental Brain Research, 2010, 205, 251-261.	0.7	63
23	Tractography Delineates Microstructural Changes in the Trigeminal Nerve after Focal Radiosurgery for Trigeminal Neuralgia. PLoS ONE, 2012, 7, e32745.	1.1	60
24	Frequency-dependent effects of electrical stimulation in the globus pallidus of dystonia patients. Journal of Neurophysiology, 2012, 108, 5-17.	0.9	59
25	Structural Magnetic Resonance Imaging Can Identify Trigeminal System Abnormalities in Classical Trigeminal Neuralgia. Frontiers in Neuroanatomy, 2016, 10, 95.	0.9	59
26	Diffusivity signatures characterize trigeminal neuralgia associated with multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 51-63.	1.4	58
27	THE DOPAMINERGIC NIGROSTRIATAL SYSTEMAND PARKINSON'S DISEASE. Neurosurgery, 2007, 60, 17-30.	0.6	57
28	Deep Brain Stimulator Electrodes Used for Lesioning: Proof of Principle. Neurosurgery, 2001, 49, 363-369.	0.6	51
29	Pallidal deep brain stimulation modulates cortical excitability and plasticity. Annals of Neurology, 2018, 83, 352-362.	2.8	51
30	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. Radiology, 2019, 293, 174-183.	3.6	51
31	Bilateral Focused Ultrasound Thalamotomy for Essential Tremor (<scp>BESTâ€FUS</scp> Phase 2 Trial). Movement Disorders, 2021, 36, 2653-2662.	2.2	51
32	Beta oscillatory neurons in the motor thalamus of movement disorder and pain patients. Experimental Neurology, 2014, 261, 782-790.	2.0	49
33	Microelectrode recording findings within the tractography-defined ventral intermediate nucleus. Journal of Neurosurgery, 2017, 126, 1669-1675.	0.9	45
34	Structured Online Neurosurgical Education as a Novel Method of Education Delivery in the Developing World. World Neurosurgery, 2011, 76, 224-230.	0.7	42
35	On the (Nonâ€)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. Journal of Magnetic Resonance Imaging, 2019, 49, 1736-1749.	1.9	40
36	Effects of subthalamic nucleus stimulation on motor cortex plasticity in Parkinson disease. Neurology, 2015, 85, 425-432.	1.5	39

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37	Deep Brain Stimulation in Rare Inherited Dystonias. Brain Stimulation, 2016, 9, 905-910.	0.7	39
38	Subcallosal Cingulate Connectivity in Anorexia Nervosa Patients Differs From Healthy Controls: A Multi-tensor Tractography Study. Brain Stimulation, 2015, 8, 758-768.	0.7	38
39	Affective Circuitry Alterations in Patients with Trigeminal Neuralgia. Frontiers in Neuroanatomy, 2017, 11, 73.	0.9	36
40	The effect of dexmedetomidine on the firing properties of <scp>STN</scp> neurons in Parkinson's disease. European Journal of Neuroscience, 2015, 42, 2070-2077.	1.2	35
41	Barriers to Neurosurgical Training in Sub-Saharan Africa: The Need for a Phased Approach to Global Surgery Efforts to Improve Neurosurgical Care. World Neurosurgery, 2017, 98, 397-402.	0.7	35
42	Multimodal MRI for MRgFUS in essential tremor: post-treatment radiological markers of clinical outcome. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 921-927.	0.9	34
43	The Dominant-STN phenomenon in bilateral STN DBS for Parkinson's disease. Neurobiology of Disease, 2011, 41, 131-137.	2.1	33
44	Multivariate pattern classification of brain white matter connectivity predicts classic trigeminal neuralgia. Pain, 2018, 159, 2076-2087.	2.0	32
45	Expert consensus on the management of brain arteriovenous malformations. Journal of Innovative Optical Health Sciences, 2019, 14, 1074-1081.	0.5	31
46	Global neurosurgery: models for international surgical education and collaboration at one university. Neurosurgical Focus, 2018, 45, E5.	1.0	30
47	Letter: The Risk of COVID-19 Infection During Neurosurgical Procedures: A Review of Severe Acute Respiratory Distress Syndrome Coronavirus 2 (SARS-CoV-2) Modes of Transmission and Proposed Neurosurgery-Specific Measures for Mitigation. Neurosurgery, 2020, 87, E178-E185.	0.6	30
48	Implantable Pulse Generators for Deep Brain Stimulation: Challenges, Complications, and Strategies for Practicality and Longevity. Frontiers in Human Neuroscience, 2021, 15, 708481.	1.0	30
49	Selective hippocampal subfield volume reductions in classic trigeminal neuralgia. NeuroImage: Clinical, 2019, 23, 101911.	1.4	29
50	Comparison of Diffusion-Weighted MRI Reconstruction Methods for Visualization of Cranial Nerves in Posterior Fossa Surgery. Frontiers in Neuroscience, 2017, 11, 554.	1.4	28
51	Deep brain stimulation for pantothenate kinaseâ€associated neurodegeneration: A metaâ€analysis. Movement Disorders, 2019, 34, 264-273.	2.2	27
52	Combined structural and functional patterns discriminating upper limb motor disability in multiple sclerosis using multivariate approaches. Brain Imaging and Behavior, 2017, 11, 754-768.	1.1	26
53	Assessing Barriers to Neurosurgical Care in Sub-Saharan Africa: The Role of Resources and Infrastructure. World Neurosurgery, 2017, 98, 682-688.e3.	0.7	26
54	Modulation of inhibitory plasticity in basal ganglia output nuclei of patients with Parkinson's disease. Neurobiology of Disease, 2019, 124, 46-56.	2.1	26

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55	Early postsurgical diffusivity metrics for prognostication of long-term pain relief after Gamma Knife radiosurgery for trigeminal neuralgia. Journal of Neurosurgery, 2019, 131, 539-548.	0.9	24
56	A theoretical framework for the site-specific and frequency-dependent neuronal effects of deep brain stimulation. Brain Stimulation, 2021, 14, 807-821.	0.7	24
57	Trigeminal neuralgia associated with a solitary pontine lesion: clinical and neuroimaging definition of a new syndrome. Pain, 2020, 161, 916-925.	2.0	23
58	Age-Related Changes in Diffusion Tensor Imaging Metrics of Fornix Subregions in Healthy Humans. Stereotactic and Functional Neurosurgery, 2015, 93, 151-159.	0.8	21
59	Long-term neuropsychiatric outcomes after pallidal stimulation in primary and secondary dystonia. Neurology, 2015, 85, 433-440.	1.5	21
60	Preliminary evidence for human globus pallidus pars interna neurons signaling reward and sensory stimuli. Neuroscience, 2016, 328, 30-39.	1.1	21
61	Sequence of electrode implantation and outcome of deep brain stimulation for Parkinson's disease. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, 859-863.	0.9	20
62	Anatomic Targeting of the Optimal Location for Thalamic Deep Brain Stimulation in Patients with Essential Tremor. World Neurosurgery, 2017, 107, 168-174.	0.7	20
63	Sign-specific stimulation â€˜hotâ€™ and â€˜coldâ€™ spots in Parkinsonâ€™s disease validated with machine learning. Brain Communications, 2021, 3, fcab027.	1.5	20
64	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. Journal of Neurosurgery, 2020, 133, 1002-1009.	0.9	20
65	Dystonia as complication of thalamic neurosurgery. Parkinsonism and Related Disorders, 2019, 66, 232-236.	1.1	19
66	Trigeminal nerve and white matter brain abnormalities in chronic orofacial pain disorders. Pain Reports, 2019, 4, e755.	1.4	19
67	Adoption of focused ultrasound thalamotomy for essential tremor: why so much fuss about FUS?. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 549-554.	0.9	19
68	Subthalamic suppression defines therapeutic threshold of deep brain stimulation in Parkinsonâ€™s disease. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 1105-1108.	0.9	16
69	Differential expression of a brain aging biomarker across discrete chronic pain disorders. Pain, 2022, 163, 1468-1478.	2.0	15
70	Merged Group Tractography Evaluation with Selective Automated Group Integrated Tractography. Frontiers in Neuroanatomy, 2016, 10, 96.	0.9	14
71	Patient-adjusted deep-brain stimulation programming is time saving in dystonia patients. Journal of Neurology, 2019, 266, 2423-2429.	1.8	13
72	Pain Relief Reverses Hippocampal Abnormalities in Trigeminal Neuralgia. Journal of Pain, 2022, 23, 141-155.	0.7	13

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73	Blood oxygen level-dependent (BOLD) response patterns with thalamic deep brain stimulation in patients with medically refractory epilepsy. Epilepsy and Behavior, 2021, 122, 108153.	0.9	13
74	Younger age predicts greater effectiveness of spinal cord stimulation for chronic pain. Acta Neurochirurgica, 2016, 158, 999-1003.	0.9	12
75	Ultraâ€highâ€frequency deep brain stimulation at 10,000 Hz improves motor function. Movement Disorders, 2019, 34, 146-148.	2.2	12
76	Acute low frequency dorsal subthalamic nucleus stimulation improves verbal fluency in Parkinson's disease. Brain Stimulation, 2021, 14, 754-760.	0.7	12
77	Fronto-subthalamic phase synchronization and cross-frequency coupling during conflict processing. NeuroImage, 2021, 238, 118205.	2.1	12
78	Temporal disconnection between pain relief and trigeminal nerve microstructural changes after Gamma Knife radiosurgery for trigeminal neuralgia. Journal of Neurosurgery, 2020, 133, 727-735.	0.9	12
79	Stopping and slowing manual and spoken responses: Similar oscillatory signatures recorded from the subthalamic nucleus. Brain and Language, 2018, 176, 1-10.	0.8	10
80	Acute MR-Guided High-Intensity Focused Ultrasound Lesion Assessment Using Diffusion-Weighted Imaging and Histological Analysis. Frontiers in Neurology, 2019, 10, 1069.	1.1	10
81	Cross-sectional analysis of women in neurosurgery: a Canadian perspective. Neurosurgical Focus, 2021, 50, E13.	1.0	10
82	Importance of Cobalt-60 Dose Rate and Biologically Effective Dose on Local Control for Intracranial Meningiomas Treated With Stereotactic Radiosurgery. Neurosurgery, 2022, 90, 140-147.	0.6	10
83	Trigeminal neuralgia associated with multiple sclerosis: A multimodal assessment of brainstem plaques and response to Gamma Knife radiosurgery. Multiple Sclerosis Journal, 2020, 26, 1877-1888.	1.4	9
84	Regional brain morphology predicts pain relief in trigeminal neuralgia. NeuroImage: Clinical, 2021, 31, 102706.	1.4	9
85	Brainstem trigeminal fiber microstructural abnormalities are associated with treatment response across subtypes of trigeminal neuralgia. Pain, 2021, 162, 1790-1799.	2.0	9
86	Comparison of oncometabolite 2-hydroxyglutarate (2HG) levels in mutant isocitrate dehydrogenase (IDH) versus wild-type (WT) glioma tissues.. Journal of Clinical Oncology, 2016, 34, 2028-2028.	0.8	9
87	Diffusion Tensor Imaging of the Basal Ganglia for Functional Neurosurgery Applications. Progress in Neurological Surgery, 2018, 33, 62-79.	1.3	8
88	Programming Directional Deep Brain Stimulation in Parkinsonâ€™s Disease: A Randomized Prospective Trial Comparing Early versus Delayed Stimulation Steering. Stereotactic and Functional Neurosurgery, 2021, 99, 484-490.	0.8	8
89	Radiation Dose Rate, Biologically Effective Dose, and Tumor Characteristics on Local Control and Toxicity After Radiosurgery for Acoustic Neuromas. World Neurosurgery, 2021, 152, e512-e522.	0.7	8
90	Neural Correlates of Optimal Deep Brain Stimulation for Cervical Dystonia. Annals of Neurology, 2022, 92, 418-424.	2.8	8

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91	SCA 35 presenting as isolated treatment-resistant dystonic hand tremor. Parkinsonism and Related Disorders, 2017, 37, 118-119.	1.1	7
92	Neurophysiological responses of globus pallidus internus during the auditory oddball task in Parkinson's disease. Neurobiology of Disease, 2021, 159, 105490.	2.1	7
93	Histopathological effects of radiosurgery on a human trigeminal nerve. , 2013, 4, 462.		7
94	An In vivo Multi-Modal Structural Template for Neonatal Piglets Using High Angular Resolution and Population-Based Whole-Brain Tractography. Frontiers in Neuroanatomy, 2016, 10, 92.	0.9	6
95	Prediction of Laterality in Temporal Lobe Epilepsy Using White Matter Diffusion Metrics. World Neurosurgery, 2019, 128, e700-e708.	0.7	6
96	Flexible vs. standard subthalamic stimulation in Parkinson disease: A double-blind proof-of-concept cross-over trial. Parkinsonism and Related Disorders, 2021, 89, 93-97.	1.1	6
97	The Utility of Diffusion Tensor Imaging in Neuromodulation: Moving Beyond Conventional Magnetic Resonance Imaging. Neuromodulation, 2020, 23, 427-435.	0.4	5
98	Standardizing T1-w/T2-w ratio images in trigeminal neuralgia to estimate the degree of demyelination in vivo. NeuroImage: Clinical, 2021, 32, 102798.	1.4	5
99	Neuromodulation for Pain: A Comprehensive Survey and Systematic Review of Clinical Trials and Connectomic Analysis of Brain Targets. Stereotactic and Functional Neurosurgery, 2022, 100, 14-25.	0.8	5
100	Axial Impairment Following Deep Brain Stimulation in Parkinsonâ€™s Disease: A Surgicogenomic Approach. Journal of Parkinson's Disease, 2022, 12, 117-128.	1.5	5
101	Lateralized Subthalamic Stimulation for Axial Dysfunction in Parkinson's Disease: A Randomized Trial. Movement Disorders, 2022, , .	2.2	5
102	Acute ex vivo changes in brain white matter diffusion tensor metrics. PLoS ONE, 2019, 14, e0223211.	1.1	4
103	Neuroimaging of psychiatric disorders. Progress in Brain Research, 2022, 270, 149-169.	0.9	4
104	Long-term relief of intractable hiccups with vagal nerve stimulation. Brain Stimulation, 2018, 11, 1385-1387.	0.7	3
105	Peripheral Nerve Focused Ultrasound Lesioningâ€”Visualization and Assessment Using Diffusion Weighted Imaging. Frontiers in Neurology, 2021, 12, 673060.	1.1	3
106	Magnetically Guided Catheters, Micro- and Nanorobots for Spinal Cord Stimulation. Frontiers in Neurorobotics, 2021, 15, 749024.	1.6	3
107	The Association of Dexmedetomidine with Firing Properties in Pallidal Neurons. Canadian Journal of Neurological Sciences, 2021, 48, 525-533.	0.3	3
108	Trigeminal nerve integrated dose and pain outcome after gamma knife radiosurgery for trigeminal neuralgia. Journal of Radiosurgery and SBRT, 2012, 1, 295-301.	0.2	3

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109	A Functional Connectome of Parkinson's Disease Patients Prior to Deep Brain Stimulation: A Tool for Disease-Specific Connectivity Analyses. Frontiers in Neuroscience, 0, 16, .	1.4	3
110	Diffusion tensor imaging and deep brain stimulation. Expert Review of Medical Devices, 2016, 13, 615-617.	1.4	2
111	Hybrid isocenter technique for Gamma-Knife Perfexion treatment of trigeminal neuralgia. Medical Dosimetry, 2016, 41, 271-276.	0.4	2
112	Trigeminal neuralgia diffusivities using Gaussian process classification and merged group tractography. Pain, 2021, 162, 361-371.	2.0	2
113	Multicenter Validation of Individual Preoperative Motor Outcome Prediction for Deep Brain Stimulation in Parkinsonâ€™s Disease. Stereotactic and Functional Neurosurgery, 2022, 100, 121-129.	0.8	2
114	Clinical outcomes and complications of peripheral nerve field stimulation in the management of refractory trigeminal pain: a systematic review and meta-analysis. Journal of Neurosurgery, 2022, , 1-9.	0.9	2
115	Subdural Collection as Initial Presentation of Granulomatosis With Polyangiitis. JAMA Neurology, 2016, 73, 602.	4.5	1
116	Not aÂString, not aÂTangle, not an Aneurysm. Clinical Neuroradiology, 2021, 31, 653-659.	1.0	1
117	Cryptogenic cervical intramedullary abscess with rapidly progressive myelopathy: illustrative case. Journal of Neurosurgery Case Lessons, 2021, 1, .	0.1	1
118	Probabilistic characterisation of deep brain stimulation in patients with tardive syndromes. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 909-911.	0.9	1
119	An unusual case of deep brain stimulation-induced insomnia. Sleep Medicine, 2022, 89, 156-158.	0.8	1
120	Bing-Neel Syndrome. Neurology, 2021, 97, 1033-1034.	1.5	0
121	Cortical Neuroplasticity after Focused Peripheral Radiation: Longitudinal Effects of Gamma Knife Radiosurgery for Classic Trigeminal Neuralgia. Canadian Journal of Pain, 0, , .	0.6	0
122	Correlation between Cranial Nerve Microstructural Characteristics and Vestibular Schwannoma Tumor Volume. American Journal of Neuroradiology, 2021, 42, 1853-1858.	1.2	0