

Mojgan Hodaie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/611797/publications.pdf>

Version: 2024-02-01

122
papers

4,168
citations

101543

36
h-index

144013

57
g-index

127
all docs

127
docs citations

127
times ranked

4109
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in diagnosis, classification, pathophysiology, and management of trigeminal neuralgia. <i>Lancet Neurology</i> , The, 2020, 19, 784-796.	10.2	210
2	Tractographyâ€Based Ventral Intermediate Nucleus Targeting: Novel Methodology and Intraoperative Validation. <i>Movement Disorders</i> , 2016, 31, 1217-1225.	3.9	146
3	Outcomes from stereotactic surgery for essential tremor. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 474-482.	1.9	141
4	Abnormal trigeminal nerve microstructure and brain white matter in idiopathic trigeminal neuralgia. <i>Pain</i> , 2014, 155, 37-44.	4.2	136
5	Predicting optimal deep brain stimulation parameters for Parkinsonâ€™s disease using functional MRI and machine learning. <i>Nature Communications</i> , 2021, 12, 3043.	12.8	130
6	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , 2018, 141, 3405-3414.	7.6	129
7	The Nature and Time Course of Cortical Activation Following Subthalamic Stimulation in Parkinson's Disease. <i>Cerebral Cortex</i> , 2010, 20, 1926-1936.	2.9	125
8	Systematic review of hardware-related complications of Deep Brain Stimulation: Do new indications pose an increased risk?. <i>Brain Stimulation</i> , 2017, 10, 967-976.	1.6	118
9	Sensorimotor and Pain Modulation Brain Abnormalities in Trigeminal Neuralgia: A Paroxysmal, Sensory-Triggered Neuropathic Pain. <i>PLoS ONE</i> , 2013, 8, e66340.	2.5	105
10	Physiological mechanisms of thalamic ventral intermediate nucleus stimulation for tremor suppression. <i>Brain</i> , 2018, 141, 2142-2155.	7.6	96
11	Reversal of insular and microstructural nerve abnormalities following effective surgical treatment for trigeminal neuralgia. <i>Pain</i> , 2015, 156, 1112-1123.	4.2	92
12	Neuronal inhibition and synaptic plasticity of basal ganglia neurons in Parkinson's disease. <i>Brain</i> , 2018, 141, 177-190.	7.6	91
13	Stop-related subthalamic beta activity indexes global motor suppression in Parkinson's disease. <i>Movement Disorders</i> , 2016, 31, 1846-1853.	3.9	81
14	Deep brain stimulation for Parkinsonâ€™s disease: meta-analysis of results of randomized trials at varying lengths of follow-up. <i>Journal of Neurosurgery</i> , 2018, 128, 1199-1213.	1.6	81
15	Idiopathic intracranial hypertension. <i>Neurology</i> , 2018, 91, 515-522.	1.1	80
16	Gamma Knife Thalamotomy for Disabling Tremor. <i>Archives of Neurology</i> , 2010, 67, 584-8.	4.5	78
17	In Vivo Visualization of Cranial Nerve Pathways in Humans Using Diffusion-Based Tractography. <i>Neurosurgery</i> , 2010, 66, 788-796.	1.1	77
18	Negative childhood experiences alter a prefrontalâ€insularâ€motor cortical network in healthy adults: A preliminary multimodal rsfMRIâ€fMRIâ€MRSâ€dMRI study. <i>Human Brain Mapping</i> , 2015, 36, 4622-4637.	3.6	70

#	ARTICLE	IF	CITATIONS
19	Probabilistic Mapping of Deep Brain Stimulation: Insights from 15â€™Years of Therapy. <i>Annals of Neurology</i> , 2021, 89, 426-443.	5.3	68
20	Enhanced synchronization of thalamic theta band local field potentials in patients with essential tremor. <i>Experimental Neurology</i> , 2009, 217, 171-176.	4.1	67
21	Predicting pain relief: Use of pre-surgical trigeminal nerve diffusion metrics in trigeminal neuralgia. <i>NeuroImage: Clinical</i> , 2017, 15, 710-718.	2.7	67
22	High-frequency microstimulation in human globus pallidus and substantia nigra. <i>Experimental Brain Research</i> , 2010, 205, 251-261.	1.5	63
23	Tractography Delineates Microstructural Changes in the Trigeminal Nerve after Focal Radiosurgery for Trigeminal Neuralgia. <i>PLoS ONE</i> , 2012, 7, e32745.	2.5	60
24	Frequency-dependent effects of electrical stimulation in the globus pallidus of dystonia patients. <i>Journal of Neurophysiology</i> , 2012, 108, 5-17.	1.8	59
25	Structural Magnetic Resonance Imaging Can Identify Trigeminal System Abnormalities in Classical Trigeminal Neuralgia. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 95.	1.7	59
26	Diffusivity signatures characterize trigeminal neuralgia associated with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 51-63.	3.0	58
27	THE DOPAMINERGIC NIGROSTRIATAL SYSTEM AND PARKINSON'S DISEASE. <i>Neurosurgery</i> , 2007, 60, 17-30.	1.1	57
28	Deep Brain Stimulator Electrodes Used for Lesioning: Proof of Principle. <i>Neurosurgery</i> , 2001, 49, 363-369.	1.1	51
29	Pallidal deep brain stimulation modulates cortical excitability and plasticity. <i>Annals of Neurology</i> , 2018, 83, 352-362.	5.3	51
30	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. <i>Radiology</i> , 2019, 293, 174-183.	7.3	51
31	Bilateral Focused Ultrasound Thalamotomy for Essential Tremor (<sc>BESTâ€™FUS</sc> Phase 2 Trial). <i>Movement Disorders</i> , 2021, 36, 2653-2662.	3.9	51
32	Beta oscillatory neurons in the motor thalamus of movement disorder and pain patients. <i>Experimental Neurology</i> , 2014, 261, 782-790.	4.1	49
33	Microelectrode recording findings within the tractography-defined ventral intermediate nucleus. <i>Journal of Neurosurgery</i> , 2017, 126, 1669-1675.	1.6	45
34	Structured Online Neurosurgical Education as a Novel Method of Education Delivery in the Developing World. <i>World Neurosurgery</i> , 2011, 76, 224-230.	1.3	42
35	On the (Nonâ€™)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1736-1749.	3.4	40
36	Effects of subthalamic nucleus stimulation on motor cortex plasticity in Parkinson disease. <i>Neurology</i> , 2015, 85, 425-432.	1.1	39

#	ARTICLE	IF	CITATIONS
37	Deep Brain Stimulation in Rare Inherited Dystonias. <i>Brain Stimulation</i> , 2016, 9, 905-910.	1.6	39
38	Subcallosal Cingulate Connectivity in Anorexia Nervosa Patients Differs From Healthy Controls: A Multi-tensor Tractography Study. <i>Brain Stimulation</i> , 2015, 8, 758-768.	1.6	38
39	Affective Circuitry Alterations in Patients with Trigeminal Neuralgia. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 73.	1.7	36
40	The effect of dexmedetomidine on the firing properties of <scp>STN</scp> neurons in Parkinson's disease. <i>European Journal of Neuroscience</i> , 2015, 42, 2070-2077.	2.6	35
41	Barriers to Neurosurgical Training in Sub-Saharan Africa: The Need for a Phased Approach to Global Surgery Efforts to Improve Neurosurgical Care. <i>World Neurosurgery</i> , 2017, 98, 397-402.	1.3	35
42	Multimodal MRI for MRgFUS in essential tremor: post-treatment radiological markers of clinical outcome. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 921-927.	1.9	34
43	The Dominant-STN phenomenon in bilateral STN DBS for Parkinson's disease. <i>Neurobiology of Disease</i> , 2011, 41, 131-137.	4.4	33
44	Multivariate pattern classification of brain white matter connectivity predicts classic trigeminal neuralgia. <i>Pain</i> , 2018, 159, 2076-2087.	4.2	32
45	Expert consensus on the management of brain arteriovenous malformations. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 14, 1074-1081.	1.0	31
46	Global neurosurgery: models for international surgical education and collaboration at one university. <i>Neurosurgical Focus</i> , 2018, 45, E5.	2.3	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. <i>Neurosurgery</i> , 2020, 87, E178-E185.	1.1	30
48	Implantable Pulse Generators for Deep Brain Stimulation: Challenges, Complications, and Strategies for Practicality and Longevity. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 708481.	2.0	30
49	Selective hippocampal subfield volume reductions in classic trigeminal neuralgia. <i>NeuroImage: Clinical</i> , 2019, 23, 101911.	2.7	29
50	Comparison of Diffusion-Weighted MRI Reconstruction Methods for Visualization of Cranial Nerves in Posterior Fossa Surgery. <i>Frontiers in Neuroscience</i> , 2017, 11, 554.	2.8	28
51	Deep brain stimulation for pantothenate kinase-associated neurodegeneration: A meta-analysis. <i>Movement Disorders</i> , 2019, 34, 264-273.	3.9	27
52	Combined structural and functional patterns discriminating upper limb motor disability in multiple sclerosis using multivariate approaches. <i>Brain Imaging and Behavior</i> , 2017, 11, 754-768.	2.1	26
53	Assessing Barriers to Neurosurgical Care in Sub-Saharan Africa: The Role of Resources and Infrastructure. <i>World Neurosurgery</i> , 2017, 98, 682-688.e3.	1.3	26
54	Modulation of inhibitory plasticity in basal ganglia output nuclei of patients with Parkinson's disease. <i>Neurobiology of Disease</i> , 2019, 124, 46-56.	4.4	26

#	ARTICLE	IF	CITATIONS
55	Early postsurgical diffusivity metrics for prognostication of long-term pain relief after Gamma Knife radiosurgery for trigeminal neuralgia. <i>Journal of Neurosurgery</i> , 2019, 131, 539-548.	1.6	24
56	A theoretical framework for the site-specific and frequency-dependent neuronal effects of deep brain stimulation. <i>Brain Stimulation</i> , 2021, 14, 807-821.	1.6	24
57	Trigeminal neuralgia associated with a solitary pontine lesion: clinical and neuroimaging definition of a new syndrome. <i>Pain</i> , 2020, 161, 916-925.	4.2	23
58	Age-Related Changes in Diffusion Tensor Imaging Metrics of Fornix Subregions in Healthy Humans. <i>Stereotactic and Functional Neurosurgery</i> , 2015, 93, 151-159.	1.5	21
59	Long-term neuropsychiatric outcomes after pallidal stimulation in primary and secondary dystonia. <i>Neurology</i> , 2015, 85, 433-440.	1.1	21
60	Preliminary evidence for human globus pallidus pars interna neurons signaling reward and sensory stimuli. <i>Neuroscience</i> , 2016, 328, 30-39.	2.3	21
61	Sequence of electrode implantation and outcome of deep brain stimulation for Parkinson's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 859-863.	1.9	20
62	Anatomic Targeting of the Optimal Location for Thalamic Deep Brain Stimulation in Patients with Essential Tremor. <i>World Neurosurgery</i> , 2017, 107, 168-174.	1.3	20
63	Sign-specific stimulation "hot" and "cold" spots in Parkinson's disease validated with machine learning. <i>Brain Communications</i> , 2021, 3, fcab027.	3.8	20
64	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , 2020, 133, 1002-1009.	1.6	20
65	Dystonia as complication of thalamic neurosurgery. <i>Parkinsonism and Related Disorders</i> , 2019, 66, 232-236.	2.2	19
66	Trigeminal nerve and white matter brain abnormalities in chronic orofacial pain disorders. <i>Pain Reports</i> , 2019, 4, e755.	2.7	19
67	Adoption of focused ultrasound thalamotomy for essential tremor: why so much fuss about FUS?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 549-554.	1.9	19
68	Subthalamic suppression defines therapeutic threshold of deep brain stimulation in Parkinson's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 1105-1108.	1.9	16
69	Differential expression of a brain aging biomarker across discrete chronic pain disorders. <i>Pain</i> , 2022, 163, 1468-1478.	4.2	15
70	Merged Group Tractography Evaluation with Selective Automated Group Integrated Tractography. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 96.	1.7	14
71	Patient-adjusted deep-brain stimulation programming is time saving in dystonia patients. <i>Journal of Neurology</i> , 2019, 266, 2423-2429.	3.6	13
72	Pain Relief Reverses Hippocampal Abnormalities in Trigeminal Neuralgia. <i>Journal of Pain</i> , 2022, 23, 141-155.	1.4	13

#	ARTICLE	IF	CITATIONS
73	Blood oxygen level-dependent (BOLD) response patterns with thalamic deep brain stimulation in patients with medically refractory epilepsy. <i>Epilepsy and Behavior</i> , 2021, 122, 108153.	1.7	13
74	Younger age predicts greater effectiveness of spinal cord stimulation for chronic pain. <i>Acta Neurochirurgica</i> , 2016, 158, 999-1003.	1.7	12
75	Ultra-high-frequency deep brain stimulation at 10,000 Hz improves motor function. <i>Movement Disorders</i> , 2019, 34, 146-148.	3.9	12
76	Acute low frequency dorsal subthalamic nucleus stimulation improves verbal fluency in Parkinson's disease. <i>Brain Stimulation</i> , 2021, 14, 754-760.	1.6	12
77	Fronto-subthalamic phase synchronization and cross-frequency coupling during conflict processing. <i>NeuroImage</i> , 2021, 238, 118205.	4.2	12
78	Temporal disconnection between pain relief and trigeminal nerve microstructural changes after Gamma Knife radiosurgery for trigeminal neuralgia. <i>Journal of Neurosurgery</i> , 2020, 133, 727-735.	1.6	12
79	Stopping and slowing manual and spoken responses: Similar oscillatory signatures recorded from the subthalamic nucleus. <i>Brain and Language</i> , 2018, 176, 1-10.	1.6	10
80	Acute MR-Guided High-Intensity Focused Ultrasound Lesion Assessment Using Diffusion-Weighted Imaging and Histological Analysis. <i>Frontiers in Neurology</i> , 2019, 10, 1069.	2.4	10
81	Cross-sectional analysis of women in neurosurgery: a Canadian perspective. <i>Neurosurgical Focus</i> , 2021, 50, E13.	2.3	10
82	Importance of Cobalt-60 Dose Rate and Biologically Effective Dose on Local Control for Intracranial Meningiomas Treated With Stereotactic Radiosurgery. <i>Neurosurgery</i> , 2022, 90, 140-147.	1.1	10
83	Trigeminal neuralgia associated with multiple sclerosis: A multimodal assessment of brainstem plaques and response to Gamma Knife radiosurgery. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1877-1888.	3.0	9
84	Regional brain morphology predicts pain relief in trigeminal neuralgia. <i>NeuroImage: Clinical</i> , 2021, 31, 102706.	2.7	9
85	Brainstem trigeminal fiber microstructural abnormalities are associated with treatment response across subtypes of trigeminal neuralgia. <i>Pain</i> , 2021, 162, 1790-1799.	4.2	9
86	Comparison of oncometabolite 2-hydroxyglutarate (2HG) levels in mutant isocitrate dehydrogenase (IDH) versus wild-type (WT) glioma tissues. <i>Journal of Clinical Oncology</i> , 2016, 34, 2028-2028.	1.6	9
87	Diffusion Tensor Imaging of the Basal Ganglia for Functional Neurosurgery Applications. <i>Progress in Neurological Surgery</i> , 2018, 33, 62-79.	1.3	8
88	Programming Directional Deep Brain Stimulation in Parkinson's Disease: A Randomized Prospective Trial Comparing Early versus Delayed Stimulation Steering. <i>Stereotactic and Functional Neurosurgery</i> , 2021, 99, 484-490.	1.5	8
89	Radiation Dose Rate, Biologically Effective Dose, and Tumor Characteristics on Local Control and Toxicity After Radiosurgery for Acoustic Neuromas. <i>World Neurosurgery</i> , 2021, 152, e512-e522.	1.3	8
90	Neural Correlates of Optimal Deep Brain Stimulation for Cervical Dystonia. <i>Annals of Neurology</i> , 2022, 92, 418-424.	5.3	8

#	ARTICLE	IF	CITATIONS
91	SCA 35 presenting as isolated treatment-resistant dystonic hand tremor. <i>Parkinsonism and Related Disorders</i> , 2017, 37, 118-119.	2.2	7
92	Neurophysiological responses of globus pallidus internus during the auditory oddball task in Parkinson's disease. <i>Neurobiology of Disease</i> , 2021, 159, 105490.	4.4	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. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 92.	1.7	6
95	Prediction of Laterality in Temporal Lobe Epilepsy Using White Matter Diffusion Metrics. <i>World Neurosurgery</i> , 2019, 128, e700-e708.	1.3	6
96	Flexible vs. standard subthalamic stimulation in Parkinson disease: A double-blind proof-of-concept cross-over trial. <i>Parkinsonism and Related Disorders</i> , 2021, 89, 93-97.	2.2	6
97	The Utility of Diffusion Tensor Imaging in Neuromodulation: Moving Beyond Conventional Magnetic Resonance Imaging. <i>Neuromodulation</i> , 2020, 23, 427-435.	0.8	5
98	Standardizing T1-w/T2-w ratio images in trigeminal neuralgia to estimate the degree of demyelination in vivo. <i>NeuroImage: Clinical</i> , 2021, 32, 102798.	2.7	5
99	Neuromodulation for Pain: A Comprehensive Survey and Systematic Review of Clinical Trials and Connectomic Analysis of Brain Targets. <i>Stereotactic and Functional Neurosurgery</i> , 2022, 100, 14-25.	1.5	5
100	Axial Impairment Following Deep Brain Stimulation in Parkinson's Disease: A Surgicogenomic Approach. <i>Journal of Parkinson's Disease</i> , 2022, 12, 117-128.	2.8	5
101	Lateralized Subthalamic Stimulation for Axial Dysfunction in Parkinson's Disease: A Randomized Trial. <i>Movement Disorders</i> , 2022, , .	3.9	5
102	Acute ex vivo changes in brain white matter diffusion tensor metrics. <i>PLoS ONE</i> , 2019, 14, e0223211.	2.5	4
103	Neuroimaging of psychiatric disorders. <i>Progress in Brain Research</i> , 2022, 270, 149-169.	1.4	4
104	Long-term relief of intractable hiccups with vagal nerve stimulation. <i>Brain Stimulation</i> , 2018, 11, 1385-1387.	1.6	3
105	Peripheral Nerve Focused Ultrasound Lesioning's Visualization and Assessment Using Diffusion Weighted Imaging. <i>Frontiers in Neurology</i> , 2021, 12, 673060.	2.4	3
106	Magnetically Guided Catheters, Micro- and Nanorobots for Spinal Cord Stimulation. <i>Frontiers in Neurobotics</i> , 2021, 15, 749024.	2.8	3
107	The Association of Dexmedetomidine with Firing Properties in Pallidal Neurons. <i>Canadian Journal of Neurological Sciences</i> , 2021, 48, 525-533.	0.5	3
108	Trigeminal nerve integrated dose and pain outcome after gamma knife radiosurgery for trigeminal neuralgia. <i>Journal of Radiosurgery and SBRT</i> , 2012, 1, 295-301.	0.2	3

#	ARTICLE	IF	CITATIONS
109	A Functional Connectome of Parkinson's Disease Patients Prior to Deep Brain Stimulation: A Tool for Disease-Specific Connectivity Analyses. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	3
110	Diffusion tensor imaging and deep brain stimulation. <i>Expert Review of Medical Devices</i> , 2016, 13, 615-617.	2.8	2
111	Hybrid isocenter technique for Gamma-Knife Perfexion treatment of trigeminal neuralgia. <i>Medical Dosimetry</i> , 2016, 41, 271-276.	0.9	2
112	Trigeminal neuralgia diffusivities using Gaussian process classification and merged group tractography. <i>Pain</i> , 2021, 162, 361-371.	4.2	2
113	Multicenter Validation of Individual Preoperative Motor Outcome Prediction for Deep Brain Stimulation in Parkinson's Disease. <i>Stereotactic and Functional Neurosurgery</i> , 2022, 100, 121-129.	1.5	2
114	Clinical outcomes and complications of peripheral nerve field stimulation in the management of refractory trigeminal pain: a systematic review and meta-analysis. <i>Journal of Neurosurgery</i> , 2022, , 1-9.	1.6	2
115	Subdural Collection as Initial Presentation of Granulomatosis With Polyangiitis. <i>JAMA Neurology</i> , 2016, 73, 602.	9.0	1
116	Not a String, not a Tangle, not an Aneurysm. <i>Clinical Neuroradiology</i> , 2021, 31, 653-659.	1.9	1
117	Cryptogenic cervical intramedullary abscess with rapidly progressive myelopathy: illustrative case. <i>Journal of Neurosurgery Case Lessons</i> , 2021, 1, .	0.3	1
118	Probabilistic characterisation of deep brain stimulation in patients with tardive syndromes. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 909-911.	1.9	1
119	An unusual case of deep brain stimulation-induced insomnia. <i>Sleep Medicine</i> , 2022, 89, 156-158.	1.6	1
120	Bing-Neel Syndrome. <i>Neurology</i> , 2021, 97, 1033-1034.	1.1	0
121	Cortical Neuroplasticity after Focused Peripheral Radiation: Longitudinal Effects of Gamma Knife Radiosurgery for Classic Trigeminal Neuralgia. <i>Canadian Journal of Pain</i> , 0, , .	1.7	0
122	Correlation between Cranial Nerve Microstructural Characteristics and Vestibular Schwannoma Tumor Volume. <i>American Journal of Neuroradiology</i> , 2021, 42, 1853-1858.	2.4	0