

Iahn Cajigas

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,041
citations

516710

16
h-index

477307

29
g-index

72
all docs

72
docs citations

72
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser thermal ablation for mesiotemporal epilepsy: Analysis of ablation volumes and trajectories. <i>Epilepsia</i> , 2017, 58, 801-810.	5.1	136
2	Effects of surgical targeting in laser interstitial thermal therapy for mesial temporal lobe epilepsy: A multicenter study of 234 patients. <i>Epilepsia</i> , 2019, 60, 1171-1183.	5.1	132
3	Presurgical thalamocortical connectivity is associated with response to vagus nerve stimulation in children with intractable epilepsy. <i>NeuroImage: Clinical</i> , 2017, 16, 634-642.	2.7	62
4	Neural fragility as an EEG marker of the seizure onset zone. <i>Nature Neuroscience</i> , 2021, 24, 1465-1474.	14.8	61
5	Robotic Gait Rehabilitation Trainer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 490-499.	5.8	58
6	Robot-induced perturbations of human walking reveal a selective generation of motor adaptation. <i>Science Robotics</i> , 2017, 2, .	17.6	40
7	nSTAT: Open-source neural spike train analysis toolbox for Matlab. <i>Journal of Neuroscience Methods</i> , 2012, 211, 245-264.	2.5	37
8	Visual Deficit From Laser Interstitial Thermal Therapy for Temporal Lobe Epilepsy: Anatomical Considerations. <i>Operative Neurosurgery</i> , 2017, 13, 627-633.	0.8	31
9	Gender Disparities in Deep Brain Stimulation for Parkinsonâ€™s Disease. <i>Neuromodulation</i> , 2019, 22, 484-488.	0.8	28
10	Deep learning for robust detection of interictal epileptiform discharges. <i>Journal of Neural Engineering</i> , 2021, 18, 056015.	3.5	28
11	Dissecting Brainstem Locomotor Circuits: Converging Evidence for Cuneiform Nucleus Stimulation. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 64.	2.5	26
12	Gait Rehabilitation therapy using robot generated force fields applied at the pelvis. , 2010, , .		21
13	Accuracy of frame-based and frameless systems for deep brain stimulation: A meta-analysis. <i>Journal of Clinical Neuroscience</i> , 2018, 57, 1-5.	1.5	21
14	Freezing of Gait in Parkinsonâ€™s Disease: Invasive and Noninvasive Neuromodulation. <i>Neuromodulation</i> , 2021, 24, 829-842.	0.8	21
15	Ablation dynamics during laser interstitial thermal therapy for mesiotemporal epilepsy. <i>PLoS ONE</i> , 2018, 13, e0199190.	2.5	20
16	Magnetic Resonanceâ€‘Guided Laser Interstitial Thermal Therapy for Mesial Temporal Epilepsy: A Case Series Analysis of Outcomes and Complications at 2-Year Follow-Up. <i>World Neurosurgery</i> , 2019, 126, e1121-e1129.	1.3	20
17	The Risk of Peripheral Nerve Tumor Biopsy in Suspected Benign Etiologies. <i>Neurosurgery</i> , 2020, 86, E326-E332.	1.1	18
18	Robot-Driven Locomotor Perturbations Reveal Synergy-Mediated, Context-Dependent Feedforward and Feedback Mechanisms of Adaptation. <i>Scientific Reports</i> , 2020, 10, 5104.	3.3	18

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19	Implantable brain-computer interface for neuroprosthetic-enabled volitional hand grasp restoration in spinal cord injury. <i>Brain Communications</i> , 2021, 3, fcab248.	3.3	18
20	Presurgical hyperconnectivity of the ablation volume is associated with seizure-freedom after magnetic resonance-guided laser interstitial thermal therapy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2018, 61, 89-93.	2.0	14
21	Prolonged tracheal extubation time after glioma surgery was associated with lack of familiarity between the anesthesia provider and the operating neurosurgeon. A retrospective, observational study. <i>Journal of Clinical Anesthesia</i> , 2020, 60, 118-124.	1.6	14
22	Surgical Treatment of Intramedullary Spinal Metastasis in Medulloblastoma: Case Report and Review of the Literature. <i>World Neurosurgery</i> , 2018, 118, 42-46.	1.3	13
23	Long-term seizure and psychiatric outcomes following laser ablation of mesial temporal structures. <i>Epilepsia</i> , 2022, 63, 812-823.	5.1	13
24	MR Tractography-Based Targeting and Physiological Identification of the Cuneiform Nucleus for Directional DBS in a Parkinson's Disease Patient With Levodopa-Resistant Freezing of Gait. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 676755.	2.0	11
25	One-donor, two-recipient extracranial-intracranial bypass series for moyamoya and cerebral occlusive disease: rationale, clinical and angiographic outcomes, and intraoperative blood flow analysis. <i>Journal of Neurosurgery</i> , 2022, 136, 627-636.	1.6	11
26	Predictive modeling of brain tumor laser ablation dynamics. <i>Journal of Neuro-Oncology</i> , 2019, 144, 193-203.	2.9	10
27	Clinically Significant Visual Deficits after Laser Interstitial Thermal Therapy for Mesiotemporal Epilepsy. <i>Stereotactic and Functional Neurosurgery</i> , 2019, 97, 347-355.	1.5	10
28	Cognitive outcomes following laser interstitial therapy for mesiotemporal epilepsies. <i>Neurology: Clinical Practice</i> , 2020, 10, 314-323.	1.6	10
29	Closed-Loop Cognitive Stress Regulation Using Fuzzy Control in Wearable-Machine Interface Architectures. <i>IEEE Access</i> , 2021, 9, 106202-106219.	4.2	10
30	Assessment of lower extremity motor adaptation via an extension of the Force Field Adaptation Paradigm. , 2010, 2010, 4522-5.		9
31	Robotically generated force fields for stroke patient pelvic obliquity gait rehabilitation. , 2010, , .		9
32	Deep brain stimulation of the Cuneiform nucleus for levodopa-resistant freezing of gait in Parkinson's disease: study protocol for a prospective, pilot trial. <i>Pilot and Feasibility Studies</i> , 2021, 7, 117.	1.2	9
33	Analysis of intra-operative variables as predictors of 30-day readmission in patients undergoing glioma surgery at a single center. <i>Journal of Neuro-Oncology</i> , 2019, 145, 509-518.	2.9	8
34	Pituitary Apoplexy and Cerebral Infarction: Case Report and Literature Review. <i>World Neurosurgery</i> , 2020, 141, 73-80.	1.3	8
35	Intraoperative Imaging in Traumatic Peripheral Nerve Lesions: Correlating Histologic Cross-Sections with High-Resolution Ultrasound. <i>Operative Neurosurgery</i> , 2017, 13, 196-203.	0.8	7
36	Individualized Anatomy-Based Targeting for VIM-cZI DBS in Essential Tremor. <i>World Neurosurgery</i> , 2020, 140, e225-e233.	1.3	7

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37	Synovial Sarcoma of the Nerve—Clinical and Pathological Features: Case Series and Systematic Review. <i>Neurosurgery</i> , 2019, 85, E975-E991.	1.1	6
38	Endoscopic third ventriculostomy with choroid plexus cauterization for the treatment of infantile hydrocephalus in Haiti. <i>Journal of Neurosurgery: Pediatrics</i> , 2020, 25, 411-416.	1.3	6
39	Adaptation to elastic loads and BMI robot controls during rat locomotion examined with point-process GLMs. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 62.	2.5	5
40	Subthalamic nucleus deep brain stimulation for the treatment of secondary dystonia: A case series and review of literature. <i>Brain Stimulation</i> , 2017, 10, 870-872.	1.6	5
41	Interlaminar stabilization and decompression for the treatment of bilateral juxtafacet cysts: Case report and literature review. <i>International Journal of Surgery Case Reports</i> , 2019, 57, 155-159.	0.6	5
42	Design-development of an at-home modular brain-computer interface (BCI) platform in a case study of cervical spinal cord injury. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2022, 19, .	4.6	5
43	Allergy to Prolene Sutures in a Dural Graft for Chiari Decompression. <i>Case Reports in Medicine</i> , 2015, 2015, 1-3.	0.7	4
44	Design of human Machine interface and altering of pelvic obliquity with RGR Trainer. , 2011, 2011, 5975496.		3
45	Design of a Gait Training device for control of pelvic obliquity. , 2012, 2012, 3620-3.		3
46	Guest Editorial: From neuroscience to neuro-rehabilitation: transferring basic neuroscientific principles from laboratory to bedside. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 6.	4.6	3
47	Prospective Study of Nonbeneficial Care in Neurocritical Care Unit. <i>World Neurosurgery</i> , 2018, 119, e60-e63.	1.3	3
48	Brain-Computer Interface, Neuromodulation, and Neurorehabilitation Strategies for Spinal Cord Injury. <i>Neurosurgery Clinics of North America</i> , 2021, 32, 407-417.	1.7	3
49	Ventriculostomy supply cart decreases time-to-external ventricular drain placement in the emergency department. , 2021, 12, 362.		3
50	Intracranial Hypertension After Primary Decompressive Craniectomy for Head Trauma. <i>World Neurosurgery</i> , 2022, 157, e351-e356.	1.3	3
51	Effects of menopausal state on lumbar decompression and fusion surgery. <i>Journal of Clinical Neuroscience</i> , 2020, 77, 157-162.	1.5	2
52	Erratum (—A State-Space Analysis for Reconstruction of Goal-Directed Movements Using Neural) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> 1106-1107.	2.2	1
53	Postoperative Sexual Activity Recommendations: Survey of Neurosurgeons/Spine Surgeons. <i>World Neurosurgery</i> , 2020, 141, e70-e75.	1.3	1
54	Commentary: A Novel Intraoperative Brain Mapping Integrated Task-Presentation Platform. <i>Operative Neurosurgery</i> , 2021, 20, E340-E341.	0.8	1

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55	Healthy Subject Testing with the Robotic Gait Rehabilitation (RGR) Trainer. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 341-348.	0.6	1
56	Effects of an external ventricular drain alert protocol on venticulostomy placement time in the emergency department. Neurosurgical Focus, 2021, 51, E4.	2.3	1
57	Machine learning to predict passenger mortality and hospital length of stay following motor vehicle collision. Neurosurgical Focus, 2022, 52, E12.	2.3	1
58	Individualized Formative Assessment In Online Module Improves Learning Of Glomerular Filtration. , 0, , .		1
59	215 Laser Thermal Ablation for Mesiotemporal Epilepsy. Neurosurgery, 2017, 64, 258.	1.1	0
60	Preoperative Magnetic Resonance Imaging Based Predictive Modeling of Brain Tumor Laser Ablation. Neurosurgery, 2019, 66, 310-808.	1.1	0
61	A Fully Implantable Brain Machine Interface for Volitional Hand Grasp Restoration in Cervical Quadriplegia. Neurosurgery, 2019, 66, 310-148.	1.1	0
62	Bridging the Divide. Academic Medicine, 2020, 95, 548-552.	1.6	0
63	Deep Brain Stimulation for Parkinsonâ€™s Disease: Clinical Efficacy and Future Directions for Enhancing Motor Function. Contemporary Clinical Neuroscience, 2021, , 463-483.	0.3	0
64	Lateral retroperitoneal approach for surgical treatment of lumbar diskitis/osteomyelitis with post-infectious spinal deformity. Seminars in Spine Surgery, 2021, 33, 100853.	0.2	0
65	Short lever arm, bipedicular handlebar construct for correction of acute angular kyphosis in spondylodiscitis-induced kyphotic deformity: illustrative case. Journal of Neurosurgery Case Lessons, 2021, 1, .	0.3	0
66	Combining transcranial direct current stimulation and gravity-supported, computer-enhanced arm training in a chronic pediatric stroke survivor: a case report. Clinical Case Reports and Reviews, 2016, 2, .	0.1	0
67	A multiparametric pharmacogenomic strategy for drug repositioning predicts therapeutic efficacy for glioblastoma cell lines. Neuro-Oncology Advances, 2022, 4, vdab192.	0.7	0