

Edward Chang

List of Publications by Year in descending order

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Version: 2024-02-01

173
papers

15,051
citations

22099

59
h-index

23472

111
g-index

188
all docs

188
docs citations

188
times ranked

14543
citing authors

#	ARTICLE	IF	CITATIONS
1	Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. <i>Nature</i> , 2018, 555, 377-381.	13.7	1,074
2	Phonetic Feature Encoding in Human Superior Temporal Gyrus. <i>Science</i> , 2014, 343, 1006-1010.	6.0	748
3	Functional organization of human sensorimotor cortex for speech articulation. <i>Nature</i> , 2013, 495, 327-332.	13.7	544
4	Speech synthesis from neural decoding of spoken sentences. <i>Nature</i> , 2019, 568, 493-498.	13.7	518
5	Reconstructing Speech from Human Auditory Cortex. <i>PLoS Biology</i> , 2012, 10, e1001251.	2.6	486
6	Categorical speech representation in human superior temporal gyrus. <i>Nature Neuroscience</i> , 2010, 13, 1428-1432.	7.1	484
7	Environmental Noise Retards Auditory Cortical Development. <i>Science</i> , 2003, 300, 498-502.	6.0	481
8	Seizure characteristics and control following resection in 332 patients with low-grade gliomas. <i>Journal of Neurosurgery</i> , 2008, 108, 227-235.	0.9	452
9	Multi-day rhythms modulate seizure risk in epilepsy. <i>Nature Communications</i> , 2018, 9, 88.	5.8	369
10	Association of Maximal Extent of Resection of Contrast-Enhanced and Non-Contrast-Enhanced Tumor With Survival Within Molecular Subgroups of Patients With Newly Diagnosed Glioblastoma. <i>JAMA Oncology</i> , 2020, 6, 495.	3.4	325
11	Contemporary model of language organization: an overview for neurosurgeons. <i>Journal of Neurosurgery</i> , 2015, 122, 250-261.	0.9	314
12	Functional mapping-guided resection of low-grade gliomas in eloquent areas of the brain: improvement of long-term survival. <i>Journal of Neurosurgery</i> , 2011, 114, 566-573.	0.9	253
13	Immunogenomics of Hypermutated Glioblastoma: A Patient with Germline <i>POLE</i> Deficiency Treated with Checkpoint Blockade Immunotherapy. <i>Cancer Discovery</i> , 2016, 6, 1230-1236.	7.7	242
14	Preoperative prognostic classification system for hemispheric low-grade gliomas in adults. <i>Journal of Neurosurgery</i> , 2008, 109, 817-824.	0.9	226
15	Closed-loop neuromodulation in an individual with treatment-resistant depression. <i>Nature Medicine</i> , 2021, 27, 1696-1700.	15.2	212
16	The Encoding of Speech Sounds in the Superior Temporal Gyrus. <i>Neuron</i> , 2019, 102, 1096-1110.	3.8	211
17	Neuroprosthesis for Decoding Speech in a Paralyzed Person with Anarthria. <i>New England Journal of Medicine</i> , 2021, 385, 217-227.	13.9	209
18	Human cortical sensorimotor network underlying feedback control of vocal pitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2653-2658.	3.3	207

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19	Global and regional functional connectivity maps of neural oscillations in focal epilepsy. <i>Brain</i> , 2015, 138, 2249-2262.	3.7	198
20	Machine translation of cortical activity to text with an encoder–decoder framework. <i>Nature Neuroscience</i> , 2020, 23, 575-582.	7.1	189
21	Acute Traumatic Intraparenchymal Hemorrhage: Risk Factors for Progression in the Early Post-injury Period. <i>Neurosurgery</i> , 2006, 58, 647-656.	0.6	178
22	Oscillatory dynamics coordinating human frontal networks in support of goal maintenance. <i>Nature Neuroscience</i> , 2015, 18, 1318-1324.	7.1	173
23	Mood variations decoded from multi-site intracranial human brain activity. <i>Nature Biotechnology</i> , 2018, 36, 954-961.	9.4	164
24	A Spatial Map of Onset and Sustained Responses to Speech in the Human Superior Temporal Gyrus. <i>Current Biology</i> , 2018, 28, 1860-1871.e4.	1.8	156
25	Epilepsy and brain tumors. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2016, 134, 267-285.	1.0	151
26	Development of spectral and temporal response selectivity in the auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16460-16465.	3.3	145
27	The Control of Vocal Pitch in Human Laryngeal Motor Cortex. <i>Cell</i> , 2018, 174, 21-31.e9.	13.5	144
28	Real-time decoding of question-and-answer speech dialogue using human cortical activity. <i>Nature Communications</i> , 2019, 10, 3096.	5.8	144
29	Long-term recurrence and mortality after surgery and adjuvant radiotherapy for nonfunctional pituitary adenomas. <i>Journal of Neurosurgery</i> , 2008, 108, 736-745.	0.9	143
30	Encoding of Articulatory Kinematic Trajectories in Human Speech Sensorimotor Cortex. <i>Neuron</i> , 2018, 98, 1042-1054.e4.	3.8	141
31	Human Superior Temporal Gyrus Organization of Spectrotemporal Modulation Tuning Derived from Speech Stimuli. <i>Journal of Neuroscience</i> , 2016, 36, 2014-2026.	1.7	138
32	Cortical Representation of Ipsilateral Arm Movements in Monkey and Man. <i>Journal of Neuroscience</i> , 2009, 29, 12948-12956.	1.7	134
33	The genetic landscape of ganglioglioma. <i>Acta Neuropathologica Communications</i> , 2018, 6, 47.	2.4	130
34	Towards Large-Scale, Human-Based, Mesoscopic Neurotechnologies. <i>Neuron</i> , 2015, 86, 68-78.	3.8	129
35	The auditory representation of speech sounds in human motor cortex. <i>ELife</i> , 2016, 5, .	2.8	129
36	A single-cell atlas of the normal and malformed human brain vasculature. <i>Science</i> , 2022, 375, eabi7377.	6.0	129

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37	State-dependent responses to intracranial brain stimulation in a patient with depression. <i>Nature Medicine</i> , 2021, 27, 229-231.	15.2	123
38	Perceptual restoration of masked speech in human cortex. <i>Nature Communications</i> , 2016, 7, 13619.	5.8	122
39	An Amygdala-Hippocampus Subnetwork that Encodes Variation in Human Mood. <i>Cell</i> , 2018, 175, 1688-1700.e14.	13.5	119
40	Intonational speech prosody encoding in the human auditory cortex. <i>Science</i> , 2017, 357, 797-801.	6.0	117
41	Seizures in supratentorial meningioma: a systematic review and meta-analysis. <i>Journal of Neurosurgery</i> , 2016, 124, 1552-1561.	0.9	113
42	Direct Electrical Stimulation of Lateral Orbitofrontal Cortex Acutely Improves Mood in Individuals with Symptoms of Depression. <i>Current Biology</i> , 2018, 28, 3893-3902.e4.	1.8	112
43	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. <i>Cell</i> , 2018, 174, 505-520.	13.5	108
44	Parallel and distributed encoding of speech across human auditory cortex. <i>Cell</i> , 2021, 184, 4626-4639.e13.	13.5	103
45	Seizure control outcomes after resection of dysembryoplastic neuroepithelial tumor in 50 patients. <i>Journal of Neurosurgery: Pediatrics</i> , 2010, 5, 123-130.	0.8	99
46	A speech envelope landmark for syllable encoding in human superior temporal gyrus. <i>Science Advances</i> , 2019, 5, eaay6279.	4.7	99
47	Does Adult Neurogenesis Persist in the Human Hippocampus?. <i>Cell Stem Cell</i> , 2018, 23, 780-781.	5.2	95
48	Immature excitatory neurons develop during adolescence in the human amygdala. <i>Nature Communications</i> , 2019, 10, 2748.	5.8	95
49	Semi-automated Anatomical Labeling and Inter-subject Warping of High-Density Intracranial Recording Electrodes in Electrocorticography. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 62.	1.3	94
50	SEIZURE CHARACTERISTICS AND CONTROL AFTER MICROSURGICAL RESECTION OF SUPRATENTORIAL CEREBRAL CAVERNOUS MALFORMATIONS. <i>Neurosurgery</i> , 2009, 65, 31-38.	0.6	92
51	Sub-centimeter language organization in the human temporal lobe. <i>Brain and Language</i> , 2011, 117, 103-109.	0.8	92
52	The cortical computations underlying feedback control in vocal production. <i>Current Opinion in Neurobiology</i> , 2015, 33, 174-181.	2.0	90
53	Long-term brain network reorganization predicts responsive neurostimulation outcomes for focal epilepsy. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	84
54	Dynamic speech representations in the human temporal lobe. <i>Trends in Cognitive Sciences</i> , 2014, 18, 472-479.	4.0	82

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55	Supratentorial cavernous malformations in eloquent and deep locations: surgical approaches and outcomes. <i>Journal of Neurosurgery</i> , 2011, 114, 814-827.	0.9	80
56	Real-world experience with direct brain-responsive neurostimulation for focal onset seizures. <i>Epilepsia</i> , 2020, 61, 1749-1757.	2.6	77
57	Predictors of efficacy after stereotactic radiosurgery for medial temporal lobe epilepsy. <i>Neurology</i> , 2010, 74, 165-172.	1.5	74
58	Neural speech recognition: continuous phoneme decoding using spatiotemporal representations of human cortical activity. <i>Journal of Neural Engineering</i> , 2016, 13, 056004.	1.8	74
59	Stereotactic Laser Ablation for Hypothalamic Hamartoma. <i>Neurosurgery Clinics of North America</i> , 2016, 27, 59-67.	0.8	71
60	Prospective comparison of long-term pain relief rates after first-time microvascular decompression and stereotactic radiosurgery for trigeminal neuralgia. <i>Journal of Neurosurgery</i> , 2018, 128, 68-77.	0.9	70
61	ACUTE TRAUMATIC INTRAPARENCHYMAL HEMORRHAGE. <i>Neurosurgery</i> , 2007, 61, 647-656.	0.6	69
62	Long-Term Benefit Sustained after Bilateral Pallidal Deep Brain Stimulation in Patients with Refractory Tardive Dystonia. <i>Stereotactic and Functional Neurosurgery</i> , 2010, 88, 304-310.	0.8	66
63	Cortical Spatio-temporal Dynamics Underlying Phonological Target Detection in Humans. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1437-1446.	1.1	66
64	Dynamic Encoding of Speech Sequence Probability in Human Temporal Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 7203-7214.	1.7	65
65	Immediate Mood Scaler: Tracking Symptoms of Depression and Anxiety Using a Novel Mobile Mood Scale. <i>JMIR MHealth and UHealth</i> , 2017, 5, e44.	1.8	63
66	Minimally invasive surgical approaches for temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2015, 47, 24-33.	0.9	62
67	Homotopic organization of essential language sites in right and bilateral cerebral hemispheric dominance. <i>Journal of Neurosurgery</i> , 2011, 114, 893-902.	0.9	60
68	Seizure outcomes in nonresective epilepsy surgery: an update. <i>Neurosurgical Review</i> , 2017, 40, 181-194.	1.2	58
69	Spatial resolution dependence on spectral frequency in human speech cortex electrocorticography. <i>Journal of Neural Engineering</i> , 2016, 13, 056013.	1.8	55
70	Persistent neuronal activity in human prefrontal cortex links perception and action. <i>Nature Human Behaviour</i> , 2018, 2, 80-91.	6.2	53
71	Responsive neurostimulation for regional neocortical epilepsy. <i>Epilepsia</i> , 2020, 61, 96-106.	2.6	52
72	Long term outcome following repeat transsphenoidal surgery for recurrent endocrine-inactive pituitary adenomas. <i>Pituitary</i> , 2010, 13, 223-229.	1.6	51

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73	Human Sensorimotor Cortex Control of Directly Measured Vocal Tract Movements during Vowel Production. <i>Journal of Neuroscience</i> , 2018, 38, 2955-2966.	1.7	51
74	Speech map in the human ventral sensory-motor cortex. <i>Current Opinion in Neurobiology</i> , 2014, 24, 63-67.	2.0	49
75	A Modular Approach to Vocal Learning: Disentangling the Diversity of a Complex Behavioral Trait. <i>Neuron</i> , 2019, 104, 87-99.	3.8	47
76	Speech Computations of the Human Superior Temporal Gyrus. <i>Annual Review of Psychology</i> , 2022, 73, 79-102.	9.9	44
77	Deep learning as a tool for neural data analysis: Speech classification and cross-frequency coupling in human sensorimotor cortex. <i>PLoS Computational Biology</i> , 2019, 15, e1007091.	1.5	43
78	Functional maps of direct electrical stimulation-induced speech arrest and anomia: a multicentre retrospective study. <i>Brain</i> , 2021, 144, 2541-2553.	3.7	43
79	New Developments in Understanding the Complexity of Human Speech Production. <i>Journal of Neuroscience</i> , 2016, 36, 11440-11448.	1.7	42
80	Closed-Loop Deep Brain Stimulation for Refractory Chronic Pain. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 18.	1.2	42
81	Control of Spoken Vowel Acoustics and the Influence of Phonetic Context in Human Speech Sensorimotor Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 12662-12677.	1.7	41
82	Speaker-normalized sound representations in the human auditory cortex. <i>Nature Communications</i> , 2019, 10, 2465.	5.8	41
83	Incidence and Management of Venous Air Embolisms during Awake Deep Brain Stimulation Surgery in a Large Clinical Series. <i>Stereotactic and Functional Neurosurgery</i> , 2011, 89, 76-82.	0.8	39
84	High-Resolution, Non-Invasive Imaging of Upper Vocal Tract Articulators Compatible with Human Brain Recordings. <i>PLoS ONE</i> , 2016, 11, e0151327.	1.1	39
85	Rate and complications of adult epilepsy surgery in North America: Analysis of multiple databases. <i>Epilepsy Research</i> , 2016, 124, 55-62.	0.8	39
86	The peri-Sylvian cortical network underlying single word repetition revealed by electrocortical stimulation and direct neural recordings. <i>Brain and Language</i> , 2019, 193, 58-72.	0.8	38
87	Brain2Char: a deep architecture for decoding text from brain recordings. <i>Journal of Neural Engineering</i> , 2020, 17, 066015.	1.8	37
88	Human cortical encoding of pitch in tonal and non-tonal languages. <i>Nature Communications</i> , 2021, 12, 1161.	5.8	36
89	Magnetic source imaging for the surgical evaluation of electroencephalography-confirmed secondary bilateral synchrony in intractable epilepsy. <i>Journal of Neurosurgery</i> , 2009, 111, 1248-1256.	0.9	35
90	Neural Encoding of Auditory Features during Music Perception and Imagery. <i>Cerebral Cortex</i> , 2018, 28, 4222-4233.	1.6	35

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91	Comprehensive analysis of diverse low-grade neuroepithelial tumors with FGFR1 alterations reveals a distinct molecular signature of rosette-forming glioneuronal tumor. <i>Acta Neuropathologica Communications</i> , 2020, 8, 151.	2.4	35
92	Distinctive Structural and Molecular Features of Myelinated Inhibitory Axons in Human Neocortex. <i>ENeuro</i> , 2018, 5, ENEURO.0297-18.2018.	0.9	35
93	Neural decoding of spoken vowels from human sensory-motor cortex with high-density electrocorticography. , 2014, 2014, 6782-5.		33
94	Systemic inaccuracies in the National Surgical Quality Improvement Program database: Implications for accuracy and validity for neurosurgery outcomes research. <i>Journal of Clinical Neuroscience</i> , 2017, 37, 44-47.	0.8	33
95	Subcellular organization of UBE3A in human cerebral cortex. <i>Molecular Autism</i> , 2018, 9, 54.	2.6	30
96	Neuronal Responses to Passive Movement in the Globus Pallidus Internus in Primary Dystonia. <i>Journal of Neurophysiology</i> , 2007, 98, 3696-3707.	0.9	28
97	The influence of lexical statistics on temporal lobe cortical dynamics during spoken word listening. <i>Brain and Language</i> , 2015, 147, 66-75.	0.8	28
98	Surgical management of medically refractory epilepsy in patients with polymicrogyria. <i>Epilepsia</i> , 2016, 57, 151-161.	2.6	28
99	Pure Apraxia of Speech After Resection Based in the Posterior Middle Frontal Gyrus. <i>Neurosurgery</i> , 2020, 87, E383-E389.	0.6	28
100	Direct cortical stimulation of inferior frontal cortex disrupts both speech and music production in highly trained musicians. <i>Cognitive Neuropsychology</i> , 2019, 36, 158-166.	0.4	26
101	Bidirectional propagation of low frequency oscillations over the human hippocampal surface. <i>Nature Communications</i> , 2021, 12, 2764.	5.8	26
102	Functional alterations in cortical processing of speech in glioma-infiltrated cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	26
103	Intracranial electroencephalographic biomarker predicts effective responsive neurostimulation for epilepsy prior to treatment. <i>Epilepsia</i> , 2022, 63, 652-662.	2.6	25
104	National trends and complication rates for invasive extraoperative electrocorticography in the USA. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 823-827.	0.8	24
105	Unsupervised Learning of Spatiotemporal Interictal Discharges in Focal Epilepsy. <i>Neurosurgery</i> , 2018, 83, 683-691.	0.6	24
106	Seizure Outcome After Surgical Resection of Insular Glioma. <i>Neurosurgery</i> , 2018, 83, 709-718.	0.6	24
107	Seizure localization by chronic ambulatory electrocorticography. <i>Clinical Neurophysiology Practice</i> , 2018, 3, 174-176.	0.6	24
108	A Review of Cortical and Subcortical Stimulation Mapping for Language. <i>Neurosurgery</i> , 2021, 89, 331-342.	0.6	23

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109	Adaptive tracking of human ECoG network dynamics. <i>Journal of Neural Engineering</i> , 2021, 18, 016011.	1.8	23
110	Awake brain tumor resection during pregnancy: Decision making and technical nuances. <i>Journal of Clinical Neuroscience</i> , 2016, 24, 160-162.	0.8	22
111	Neural correlates of sine-wave speech intelligibility in human frontal and temporal cortex. <i>Brain and Language</i> , 2018, 187, 83-91.	0.8	22
112	Multiple Subpial Transections for Medically Refractory Epilepsy: A Disaggregated Review of Patient-Level Data. <i>Neurosurgery</i> , 2018, 82, 613-620.	0.6	21
113	Emergent categorical representation of natural, complex sounds resulting from the early post-natal sound environment. <i>Neuroscience</i> , 2013, 248, 30-42.	1.1	20
114	Major and minor complications in extraoperative electrocorticography: A review of a national database. <i>Epilepsy Research</i> , 2016, 122, 26-29.	0.8	20
115	Evidence of state-dependence in the effectiveness of responsive neurostimulation for seizure modulation. <i>Brain Stimulation</i> , 2021, 14, 366-375.	0.7	20
116	Left hemisphere dominance for bilateral kinematic encoding in the human brain. <i>ELife</i> , 2022, 11, .	2.8	20
117	Decoding naturalistic affective behaviour from spectro-spatial features in multiday human iEEG. <i>Nature Human Behaviour</i> , 2022, 6, 823-836.	6.2	19
118	Biases in processing of mood-congruent facial expressions in depression. <i>Psychiatry Research</i> , 2019, 275, 143-148.	1.7	18
119	Toward a Speech Neuroprosthesis. <i>JAMA - Journal of the American Medical Association</i> , 2020, 323, 413.	3.8	18
120	Gliomas arising in the setting of Li-Fraumeni syndrome stratify into two molecular subgroups with divergent clinicopathologic features. <i>Acta Neuropathologica</i> , 2020, 139, 953-957.	3.9	18
121	Human Responses to Visually Evoked Threat. <i>Current Biology</i> , 2021, 31, 601-612.e3.	1.8	18
122	Operative Technique and Lessons Learned From Surgical Implantation of the NeuroPace Responsive Neurostimulation® System in 57 Consecutive Patients. <i>Operative Neurosurgery</i> , 2020, 20, E98-E109.	0.4	17
123	Transformation of a temporal speech cue to a spatial neural code in human auditory cortex. <i>ELife</i> , 2020, 9, .	2.8	17
124	Analysis-rics-data: Open-Source Toolbox for the Ingestion, Time-Alignment, and Visualization of Sense and Stimulation Data From the Medtronic Summit RC+S System. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 714256.	1.0	16
125	Critical Language Areas Show Increased Functional Connectivity in Human Cortex. <i>Cerebral Cortex</i> , 2018, 28, 4161-4168.	1.6	15
126	Mirroring in the Human Brain: Deciphering the Spatial-Temporal Patterns of the Human Mirror Neuron System. <i>Cerebral Cortex</i> , 2018, 28, 1039-1048.	1.6	15

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127	Inhibition of Manual Movements at Speech Arrest Sites in the Posterior Inferior Frontal Lobe. <i>Neurosurgery</i> , 2019, 85, E496-E501.	0.6	14
128	Awake craniotomy in a patient with ejection fraction of 10%: considerations of cerebrovascular and cardiovascular physiology. <i>Journal of Clinical Anesthesia</i> , 2015, 27, 256-261.	0.7	13
129	The sensitivity and significance of lateralized interictal slow activity on magnetoencephalography in focal epilepsy. <i>Epilepsy Research</i> , 2016, 121, 21-28.	0.8	13
130	Effects of anterior thalamic nuclei stimulation on hippocampal activity: Chronic recording in a patient with drug-resistant focal epilepsy. <i>Epilepsy and Behavior Reports</i> , 2021, 16, 100467.	0.5	13
131	Network connectivity predicts effectiveness of responsive neurostimulation in focal epilepsy. <i>Brain Communications</i> , 2022, 4, .	1.5	13
132	Thin-film, high-density micro-electrocorticographic decoding of a human cortical gyrus. , 2016, 2016, 1528-1531.		11
133	Connected speech in transient aphasias after left hemisphere resective surgery. <i>Aphasiology</i> , 2017, 31, 1266-1281.	1.4	11
134	Radiation-induced Cavernous Malformation as a Late Sequelae of Stereotactic Radiosurgery for Epilepsy. <i>Cureus</i> , 2018, 10, e2308.	0.2	11
135	Prefrontal Physiometers of Anxiety and Depression in Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2021, 15, 748165.	1.4	11
136	Methods for Specifying Scientific Data Standards and Modeling Relationships with Applications to Neuroscience. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 48.	1.3	10
137	Multi-scale visual analysis of time-varying electrocorticography data via clustering of brain regions. <i>BMC Bioinformatics</i> , 2017, 18, 236.	1.2	10
138	Pilot Study of An Intracranial Electroencephalography Biomarker of Depressive Symptoms in Epilepsy. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2020, 32, 185-190.	0.9	10
139	Long-term pain outcomes in elderly patients with trigeminal neuralgia: comparison of first-time microvascular decompression and stereotactic radiosurgery. <i>Neurosurgical Focus</i> , 2020, 49, E23.	1.0	10
140	Prospective genomically guided identification of "early/evolving" and "undersampled" IDH-wildtype glioblastoma leads to improved clinical outcomes. <i>Neuro-Oncology</i> , 2022, 24, 1749-1762.	0.6	10
141	A Deep Brain Stimulation Trial Period for Treating Chronic Pain. <i>Journal of Clinical Medicine</i> , 2020, 9, 3155.	1.0	9
142	Cortical Encoding of Manual Articulatory and Linguistic Features in American Sign Language. <i>Current Biology</i> , 2020, 30, 4342-4351.e3.	1.8	9
143	Epilepsy Surgery: The Emerging Field of Neuromodulation. <i>Neurosurgery Clinics of North America</i> , 2011, 22, ix-x.	0.8	8
144	Oscillatory Dynamics Track Motor Performance Improvement in Human Cortex. <i>PLoS ONE</i> , 2014, 9, e89576.	1.1	8

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145	A predictive algorithm for evaluating elevated serum prolactin in patients with a sellar mass. Journal of Clinical Neuroscience, 2015, 22, 155-160.	0.8	8
146	Long-term pain outcomes for recurrent idiopathic trigeminal neuralgia after stereotactic radiosurgery: a prospective comparison of first-time microvascular decompression and repeat stereotactic radiosurgery. Journal of Neurosurgery, 2019, 131, 1207-1215.	0.9	8
147	Harnessing the Power of Artificial Intelligence in Otolaryngology and the Communication Sciences. JARO - Journal of the Association for Research in Otolaryngology, 2022, 23, 319-349.	0.9	8
148	Comparison of Common Artifact Rejection Methods applied to Direct Cortical and Peripheral Stimulation in Human ECoG. , 2019, , .		7
149	Learning nonnative speech sounds changes local encoding in the adult human cortex. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
150	Human intracranial recordings reveal distinct cortical activity patterns during invasive and non-invasive vagus nerve stimulation. Scientific Reports, 2021, 11, 22780.	1.6	7
151	Practical Closed-Loop Strategies for Deep Brain Stimulation: Lessons From Chronic Pain. Frontiers in Neuroscience, 2021, 15, 762097.	1.4	7
152	Isolated intracerebral light chain deposition disease: novel imaging and pathologic findings. Clinical Imaging, 2014, 38, 868-871.	0.8	6
153	Dynamic Structure of Neural Variability in the Cortical Representation of Speech Sounds. Journal of Neuroscience, 2016, 36, 7453-7463.	1.7	6
154	Thin-film microfabrication and intraoperative testing of $\hat{\mu}$ ECoG and iEEG depth arrays for sense and stimulation. Journal of Neural Engineering, 2021, 18, 045014.	1.8	6
155	Data-Driven, Visual Framework for the Characterization of Aphasias Across Stroke, Post-resective, and Neurodegenerative Disorders Over Time. Frontiers in Neurology, 2020, 11, 616764.	1.1	6
156	Comparison of Stereotactic Radiosurgery and Radiofrequency Ablation for Trigeminal Neuralgia in Multiple Sclerosis Patients. Stereotactic and Functional Neurosurgery, 2020, 98, 378-385.	0.8	5
157	Accuracy of omni-planar and surface casting of epileptiform activity for intracranial seizure localization. Epilepsia, 2021, 62, 947-959.	2.6	5
158	HDMF: Hierarchical Data Modeling Framework for Modern Science Data Standards. , 2019, 2019, 165-179.		4
159	Early seizure spread and epilepsy surgery: A systematic review. Epilepsia, 2020, 61, 2163-2172.	2.6	4
160	Interictal Epileptiform Discharges and the Quality of Human Intracranial Neurophysiology Data. Frontiers in Human Neuroscience, 2020, 14, 44.	1.0	4
161	Decoding Natural Positive Emotional Behaviors from Human Fronto-Temporal Mesolimbic Structures. , 2019, , .		3
162	Minimally Invasive Epilepsy Surgery. Neurosurgery Clinics of North America, 2016, 27, xiii-xiv.	0.8	1

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163	Spontaneous Neural Activity in the Superior Temporal Gyrus Recapitulates Tuning for Speech Features. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 360.	1.0	1
164	Modeling neural dynamics during speech production using a state space variational autoencoder. , 2019, , .		1
165	Developing a Closed-Loop Brain-Computer Interface for Treatment of Neuropsychiatric Disorders Using Electrical Brain Stimulation. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2021, , 103-106.	0.3	1
166	Stereotactic Radiosurgery for Medically Intractable Epilepsy. , 0, , 1035-1041.		1
167	Cortical Representation of Speech Sounds: Insights from Intracranial Electrophysiology. <i>Springer Handbook of Auditory Research</i> , 2022, , 45-79.	0.3	1
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