

Hiroyuki Oya

List of Publications by Year in descending order

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79
papers

5,876
citations

117625

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95266

68
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89
all docs

89
docs citations

89
times ranked

7093
citing authors

#	ARTICLE	IF	CITATIONS
1	fMRIPrep: a robust preprocessing pipeline for functional MRI. <i>Nature Methods</i> , 2019, 16, 111-116.	19.0	1,830
2	Temporal Envelope of Time-Compressed Speech Represented in the Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2009, 29, 15564-15574.	3.6	217
3	Electrophysiological Responses in the Human Amygdala Discriminate Emotion Categories of Complex Visual Stimuli. <i>Journal of Neuroscience</i> , 2002, 22, 9502-9512.	3.6	214
4	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. <i>Journal of Neuroscience</i> , 2015, 35, 10281-10289.	3.6	180
5	Coding of Repetitive Transients by Auditory Cortex on Heschl's Gyrus. <i>Journal of Neurophysiology</i> , 2009, 102, 2358-2374.	1.8	177
6	Sensory-motor networks involved in speech production and motor control: An fMRI study. <i>NeuroImage</i> , 2015, 109, 418-428.	4.2	144
7	Neural signatures of perceptual inference. <i>ELife</i> , 2016, 5, e11476.	6.0	138
8	Manifestation of ocular-muscle EMG contamination in human intracranial recordings. <i>NeuroImage</i> , 2011, 54, 213-233.	4.2	125
9	Functional Segregation of Cortical Regions Underlying Speech Timing and Articulation. <i>Neuron</i> , 2016, 89, 1187-1193.	8.1	121
10	Value Encoding in Single Neurons in the Human Amygdala during Decision Making. <i>Journal of Neuroscience</i> , 2011, 31, 331-338.	3.6	118
11	Intracortical Responses in Human and Monkey Primary Auditory Cortex Support a Temporal Processing Mechanism for Encoding of the Voice Onset Time Phonetic Parameter. <i>Cerebral Cortex</i> , 2004, 15, 170-186.	2.9	104
12	Human Auditory Cortical Activation during Self-Vocalization. <i>PLoS ONE</i> , 2011, 6, e14744.	2.5	101
13	Direct Recordings of Pitch Responses from Human Auditory Cortex. <i>Current Biology</i> , 2010, 20, 1128-1132.	3.9	100
14	A human prefrontal-subthalamic circuit for cognitive control. <i>Brain</i> , 2018, 141, 205-216.	7.6	100
15	Decoding Face Information in Time, Frequency and Space from Direct Intracranial Recordings of the Human Brain. <i>PLoS ONE</i> , 2008, 3, e3892.	2.5	94
16	Intracranial Study of Speech-Elicited Activity on the Human Posterolateral Superior Temporal Gyrus. <i>Cerebral Cortex</i> , 2011, 21, 2332-2347.	2.9	91
17	Auditory-visual processing represented in the human superior temporal gyrus. <i>Neuroscience</i> , 2007, 145, 162-184.	2.3	89
18	A Functional Connection Between Inferior Frontal Gyrus and Orofacial Motor Cortex in Human. <i>Journal of Neurophysiology</i> , 2004, 92, 1153-1164.	1.8	83

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19	Intracranial Mapping of a Cortical Tinnitus System using Residual Inhibition. <i>Current Biology</i> , 2015, 25, 1208-1214.	3.9	83
20	Functional organization of human auditory cortex: Investigation of response latencies through direct recordings. <i>NeuroImage</i> , 2014, 101, 598-609.	4.2	78
21	Processing of Facial Emotion in the Human Fusiform Gyrus. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 1358-1370.	2.3	71
22	Direct Physiologic Evidence of a Heteromodal Convergence Region for Proper Naming in Human Left Anterior Temporal Lobe. <i>Journal of Neuroscience</i> , 2015, 35, 1513-1520.	3.6	69
23	Neural Correlates of Vocal Production and Motor Control in Human Heschl's Gyrus. <i>Journal of Neuroscience</i> , 2016, 36, 2302-2315.	3.6	69
24	Functional localization of auditory cortical fields of human: Click-train stimulation. <i>Hearing Research</i> , 2008, 238, 12-24.	2.0	63
25	Predictive Coding and Pitch Processing in the Auditory Cortex. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3084-3094.	2.3	61
26	Coding of repetitive transients by auditory cortex on posterolateral superior temporal gyrus in humans: an intracranial electrophysiology study. <i>Journal of Neurophysiology</i> , 2013, 109, 1283-1295.	1.8	61
27	Functional connections within the human inferior frontal gyrus. <i>Journal of Comparative Neurology</i> , 2007, 503, 550-559.	1.6	60
28	Sensory-Motor Interactions for Vocal Pitch Monitoring in Non-Primary Human Auditory Cortex. <i>PLoS ONE</i> , 2013, 8, e60783.	2.5	60
29	Electrophysiological correlates of reward prediction error recorded in the human prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8351-8356.	7.1	57
30	Combining brain perturbation and neuroimaging in non-human primates. <i>NeuroImage</i> , 2021, 235, 118017.	4.2	50
31	Spectral Organization of the Human Lateral Superior Temporal Gyrus Revealed by Intracranial Recordings. <i>Cerebral Cortex</i> , 2014, 24, 340-352.	2.9	47
32	Analysis of Single-Unit Responses to Emotional Scenes in Human Ventromedial Prefrontal Cortex. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 1509-1518.	2.3	45
33	A method for placing Heschl gyrus depth electrodes. <i>Journal of Neurosurgery</i> , 2010, 112, 1301-1307.	1.6	43
34	A device for cooling localized regions of human cerebral cortex. <i>Journal of Neurosurgery</i> , 2003, 99, 604-608.	1.6	42
35	The bispectrum and its relationship to phase-amplitude coupling. <i>NeuroImage</i> , 2018, 173, 518-539.	4.2	41
36	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. <i>Journal of Neuroscience Methods</i> , 2017, 277, 101-112.	2.5	39

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37	A "neurosurgical crisis" of sickle cell disease. <i>Journal of Neurosurgery: Pediatrics</i> , 2009, 4, 532-535.	1.3	35
38	Differential activation of human core, non-core and auditory-related cortex during speech categorization tasks as revealed by intracranial recordings. <i>Frontiers in Neuroscience</i> , 2014, 8, 240.	2.8	35
39	Sound identification in human auditory cortex: Differential contribution of local field potentials and high gamma power as revealed by direct intracranial recordings. <i>Brain and Language</i> , 2015, 148, 37-50.	1.6	35
40	Functional connections between auditory cortical fields in humans revealed by Granger causality analysis of intra-cranial evoked potentials to sounds: Comparison of two methods. <i>BioSystems</i> , 2007, 89, 198-207.	2.0	31
41	Comparison of spinal cord stimulation profiles from intra- and extradural electrode arrangements by finite element modelling. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 531-538.	2.8	31
42	High-gamma band fronto-temporal coherence as a measure of functional connectivity in speech motor control. <i>Neuroscience</i> , 2015, 305, 15-25.	2.3	31
43	Common fronto-temporal effective connectivity in humans and monkeys. <i>Neuron</i> , 2021, 109, 852-868.e8.	8.1	28
44	Conscious Perception as Integrated Information Patterns in Human Electroencephalography. <i>ENeuro</i> , 2017, 4, ENEURO.0085-17.2017.	1.9	28
45	A new device concept for directly modulating spinal cord pathways: initial <i>in vivo</i> experimental results. <i>Physiological Measurement</i> , 2012, 33, 2003-2015.	2.1	26
46	Modulation of response patterns in human auditory cortex during a target detection task: An intracranial electrophysiology study. <i>International Journal of Psychophysiology</i> , 2015, 95, 191-201.	1.0	25
47	Intracranial Somatosensory Responses with Direct Spinal Cord Stimulation in Anesthetized Sheep. <i>PLoS ONE</i> , 2013, 8, e56266.	2.5	25
48	Direct Recordings from the Auditory Cortex in a Cochlear Implant User. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 435-450.	1.8	23
49	Localization of musicogenic epilepsy to Heschl's gyrus and superior temporal plane: case report. <i>Journal of Neurosurgery</i> , 2018, 129, 157-164.	1.6	23
50	Causal mapping of emotion networks in the human brain: Framework and initial findings. <i>Neuropsychologia</i> , 2020, 145, 106571.	1.6	22
51	Oscillatory correlates of auditory working memory examined with human electroencephalography. <i>Neuropsychologia</i> , 2021, 150, 107691.	1.6	21
52	Ovine Tests of a Novel Spinal Cord Neuromodulator and Dentate Ligament Fixation Method. <i>Journal of Investigative Surgery</i> , 2012, 25, 366-374.	1.3	20
53	Direct electrophysiological mapping of human pitch-related processing in auditory cortex. <i>NeuroImage</i> , 2019, 202, 116076.	4.2	19
54	Stereotactic Atlas-Based Depth Electrode Localization in the Human Amygdala. <i>Stereotactic and Functional Neurosurgery</i> , 2009, 87, 219-228.	1.5	18

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55	Soft-coupling suspension system for an intradural spinal cord stimulator: Biophysical performance characteristics. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	18
56	Mapping the temporal pole with a specialized electrode array: technique and preliminary results. <i>Physiological Measurement</i> , 2014, 35, 323-337.	2.1	18
57	Intracranial markers of conscious face perception in humans. <i>NeuroImage</i> , 2017, 162, 322-343.	4.2	17
58	Decoding movement-related cortical potentials from electrocorticography. <i>Neurosurgical Focus</i> , 2009, 27, E11.	2.3	16
59	Postsurgical Pathologies Associated with Intradural Electrical Stimulation in the Central Nervous System: Design Implications for a New Clinical Device. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	15
60	Beta modulation reflects name retrieval in the human anterior temporal lobe: an intracranial recording study. <i>Journal of Neurophysiology</i> , 2016, 115, 3052-3061.	1.8	15
61	Dynamic loading characteristics of an intradural spinal cord stimulator. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	14
62	Neural phase locking predicts BOLD response in human auditory cortex. <i>NeuroImage</i> , 2018, 169, 286-301.	4.2	14
63	Can you hear me yet? An intracranial investigation of speech and non-speech audiovisual interactions in human cortex. <i>Language, Cognition and Neuroscience</i> , 2016, 31, 284-302.	1.2	13
64	Paradoxical vocal changes in a trained singer by focally cooling the right superior temporal gyrus. <i>Cortex</i> , 2017, 89, 111-119.	2.4	13
65	Apparatus for simulating dynamic interactions between the spinal cord and soft-coupled intradural implants. <i>Review of Scientific Instruments</i> , 2013, 84, 114303.	1.3	10
66	Revisiting intradural spinal cord stimulation: an introduction to a novel intradural spinal cord stimulation device. <i>Innovative Neurosurgery</i> , 2014, 2, 13-20.	0.1	10
67	Sparse Spectro-Temporal Receptive Fields Based on Multi-Unit and High-Gamma Responses in Human Auditory Cortex. <i>PLoS ONE</i> , 2015, 10, e0137915.	2.5	10
68	Applier tool for intradural spinal cord implants. <i>Journal of Medical Engineering and Technology</i> , 2012, 36, 169-173.	1.4	9
69	Spinal canal surrogate for testing intradural implants. <i>Journal of Medical Engineering and Technology</i> , 2012, 36, 407-410.	1.4	7
70	Finite-Element Study of the Performance Characteristics of an Intradural Spinal Cord Stimulator. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.7	6
71	Intracranial electrophysiology of the human orbitofrontal cortex. , 2006, , 355-376.		6
72	Precision surgery of rolandic glioma and insights from extended functional mapping. <i>Clinical Neurology and Neurosurgery</i> , 2017, 163, 60-66.	1.4	5

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73	Measurement and Modeling of the Effects of Transcranial Magnetic Stimulation on the Brain. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	4
74	Focal Cortical Surface Cooling is a Novel and Safe Method for Intraoperative Functional Brain Mapping. World Neurosurgery, 2021, 147, e118-e129.	1.3	4
75	Neural Correlates of Vocal Auditory Feedback Processing: Unique Insights from Electroencephalography Recordings in a Human Cochlear Implant User. ENeuro, 2021, 8, ENEURO.0181-20.2020.	1.9	4
76	Using speech and electrocorticography to map human auditory cortex. , 2014, 2014, 6798-801.		3
77	A Novel Dural Reconstruction Method Following Spinal Tumor Resection. Neurosurgery Quarterly, 2016, 26, 251-255.	0.1	3
78	Functional MRI detection of hemodynamic response of repeated median nerve stimulation. Magnetic Resonance Imaging, 2013, 31, 550-554.	1.8	1
79	Sensorimotor integration during human self-vocalization: Insights from invasive electrophysiology. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0