# Hiroyuki Oya

List of Publications by Year
in descending order



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|---|---|---|---|
| 79 papers | 5,876 citations | 117625 34 h-index | 95266 68 g-index |
| 89 all docs | 89 docs citations | 89 times ranked | 7093 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Measurement and Modeling of the Effects of Transcranial Magnetic Stimulation on the Brain. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 4 |
| 2 | Oscillatory correlates of auditory working memory examined with human electrocorticography. Neuropsychologia, 2021, 150, 107691. | 1.6 | 21 |
| 3 | Focal Cortical Surface Cooling is a Novel and Safe Method for Intraoperative Functional Brain Mapping. World Neurosurgery, 2021, 147, e118-e129. | 1.3 | 4 |
| 4 | Common fronto-temporal effective connectivity in humans and monkeys. Neuron, 2021, 109, 852-868.e8. | 8.1 | 28 |
| 5 | Neural Correlates of Vocal Auditory Feedback Processing: Unique Insights from Electrocorticography Recordings in a Human Cochlear Implant User. ENeuro, 2021, 8, ENEURO.0181-20.2020. | 1.9 | 4 |
| 6 | Combining brain perturbation and neuroimaging in non-human primates. NeuroImage, 2021, 235, 118017. | 4.2 | 50 |
| 7 | Causal mapping of emotion networks in the human brain: Framework and initial findings. Neuropsychologia, 2020, 145, 106571. | 1.6 | 22 |
| 8 | Direct electrophysiological mapping of human pitch-related processing in auditory cortex. NeuroImage, 2019, 202, 116076. | 4.2 | 19 |
| 9 | fMRIPrep: a robust preprocessing pipeline for functional MRI. Nature Methods, 2019, 16, 111-116. | 19.0 | 1,830 |
| 10 | The bispectrum and its relationship to phase-amplitude coupling. NeuroImage, 2018, 173, 518-539. | 4.2 | 41 |
| 11 | A human prefrontal-subthalamic circuit for cognitive control. Brain, 2018, 141, 205-216. | 7.6 | 100 |
| 12 | Neural phase locking predicts BOLD response in human auditory cortex. NeuroImage, 2018, 169, 286-301. | 4.2 | 14 |
| 13 | Localization of musicogenic epilepsy to Heschlâ€™s gyrus and superior temporal plane: case report. Journal of Neurosurgery, 2018, 129, 157-164. | 1.6 | 23 |
| 14 | Paradoxical vocal changes in a trained singer by focally cooling the right superior temporal gyrus. Cortex, 2017, 89, 111-119. | 2.4 | 13 |
| 15 | Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. Journal of Neuroscience Methods, 2017, 277, 101-112. | 2.5 | 39 |
| 16 | Precision surgery of rolandic glioma and insights from extended functional mapping. Clinical Neurology and Neurosurgery, 2017, 163, 60-66. | 1.4 | 5 |
| 17 | Intracranial markers of conscious face perception in humans. NeuroImage, 2017, 162, 322-343. | 4.2 | 17 |
| 18 | Conscious Perception as Integrated Information Patterns in Human Electrocorticography. ENeuro, 2017, 4, ENEURO.0085-17.2017. | 1.9 | 28 |

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|---|---|---|---|
| 19 | A Novel Dural Reconstruction Method Following Spinal Tumor Resection. Neurosurgery Quarterly, 2016, 26, 251-255. | 0.1 | 3 |
| 20 | Beta modulation reflects name retrieval in the human anterior temporal lobe: an intracranial recording study. Journal of Neurophysiology, 2016, 115, 3052-3061. | 1.8 | 15 |
| 21 | Can you hear me yet? An intracranial investigation of speech and non-speech audiovisual interactions in human cortex. Language, Cognition and Neuroscience, 2016, 31, 284-302. | 1.2 | 13 |
| 22 | Neural Correlates of Vocal Production and Motor Control in Human Heschl's Gyrus. Journal of Neuroscience, 2016, 36, 2302-2315. | 3.6 | 69 |
| 23 | Functional Segregation of Cortical Regions Underlying Speech Timing and Articulation. Neuron, 2016, 89, 1187-1193. | 8.1 | 121 |
| 24 | Neural signatures of perceptual inference. ELife, 2016, 5, e11476. | 6.0 | 138 |
| 25 | Sparse Spectro-Temporal Receptive Fields Based on Multi-Unit and High-Gamma Responses in Human Auditory Cortex. PLoS ONE, 2015, 10, e0137915. | 2.5 | 10 |
| 26 | Sensoryâ€“motor networks involved in speech production and motor control: An fMRI study. NeuroImage, 2015, 109, 418-428. | 4.2 | 144 |
| 27 | Direct Physiologic Evidence of a Heteromodal Convergence Region for Proper Naming in Human Left Anterior Temporal Lobe. Journal of Neuroscience, 2015, 35, 1513-1520. | 3.6 | 69 |
| 28 | Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. Journal of Neuroscience, 2015, 35, 10281-10289. | 3.6 | 180 |
| 29 | Sound identification in human auditory cortex: Differential contribution of local field potentials and high gamma power as revealed by direct intracranial recordings. Brain and Language, 2015, 148, 37-50. | 1.6 | 35 |
| 30 | Intracranial Mapping of a Cortical Tinnitus System using Residual Inhibition. Current Biology, 2015, 25, 1208-1214. | 3.9 | 83 |
| 31 | High-gamma band fronto-temporal coherence as a measure of functional connectivity in speech motor control. Neuroscience, 2015, 305, 15-25. | 2.3 | 31 |
| 32 | Modulation of response patterns in human auditory cortex during a target detection task: An intracranial electrophysiology study. International Journal of Psychophysiology, 2015, 95, 191-201. | 1.0 | 25 |
| 33 | Differential activation of human core, non-core and auditory-related cortex during speech categorization tasks as revealed by intracranial recordings. Frontiers in Neuroscience, 2014, 8, 240. | 2.8 | 35 |
| 34 | Using speech and electrocorticography to map human auditory cortex. , 2014, 2014, 6798-801. | | 3 |
| 35 | Functional organization of human auditory cortex: Investigation of response latencies through direct recordings. NeuroImage, 2014, 101, 598-609. | 4.2 | 78 |
| 36 | Revisiting intradural spinal cord stimulation: an introduction to a novel intradural spinal cord stimulation device. Innovative Neurosurgery, 2014, 2, 13-20. | 0.1 | 10 |

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|---|---|---|---|
| 37 | Postsurgical Pathologies Associated with Intradural Electrical Stimulation in the Central Nervous System: Design Implications for a New Clinical Device. BioMed Research International, 2014, 2014, 1-10. | 1.9 | 15 |
| 38 | Finite-Element Study of the Performance Characteristics of an Intradural Spinal Cord Stimulator. Journal of Medical Devices, Transactions of the ASME, 2014, 8, . | 0.7 | 6 |
| 39 | Mapping the temporal pole with a specialized electrode array: technique and preliminary results. Physiological Measurement, 2014, 35, 323-337. | 2.1 | 18 |
| 40 | Spectral Organization of the Human Lateral Superior Temporal Gyrus Revealed by Intracranial Recordings. Cerebral Cortex, 2014, 24, 340-352. | 2.9 | 47 |
| 41 | Comparison of spinal cord stimulation profiles from intra- and extradural electrode arrangements by finite element modelling. Medical and Biological Engineering and Computing, 2014, 52, 531-538. | 2.8 | 31 |
| 42 | Direct Recordings from the Auditory Cortex in a Cochlear Implant User. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 435-450. | 1.8 | 23 |
| 43 | Functional MRI detection of hemodynamic response of repeated median nerve stimulation. Magnetic Resonance Imaging, 2013, 31, 550-554. | 1.8 | 1 |
| 44 | Dynamic loading characteristics of an intradural spinal cord stimulator. Journal of Applied Physics, 2013, 113, . | 2.5 | 14 |
| 45 | Apparatus for simulating dynamic interactions between the spinal cord and soft-coupled intradural implants. Review of Scientific Instruments, 2013, 84, 114303. | 1.3 | 10 |
| 46 | Soft-coupling suspension system for an intradural spinal cord stimulator: Biophysical performance characteristics. Journal of Applied Physics, 2013, 114, . | 2.5 | 18 |
| 47 | Sensorimotor integration during human self-vocalization: Insights from invasive electrophysiology. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 0 |
| 48 | Coding of repetitive transients by auditory cortex on posterolateral superior temporal gyrus in humans: an intracranial electrophysiology study. Journal of Neurophysiology, 2013, 109, 1283-1295. | 1.8 | 61 |
| 49 | Sensory-Motor Interactions for Vocal Pitch Monitoring in Non-Primary Human Auditory Cortex. PLoS ONE, 2013, 8, e60783. | 2.5 | 60 |
| 50 | Intracranial Somatosensory Responses with Direct Spinal Cord Stimulation in Anesthetized Sheep. PLoS ONE, 2013, 8, e56266. | 2.5 | 25 |
| 51 | Applier tool for intradural spinal cord implants. Journal of Medical Engineering and Technology, 2012, 36, 169-173. | 1.4 | 9 |
| 52 | Spinal canal surrogate for testing intradural implants. Journal of Medical Engineering and Technology, 2012, 36, 407-410. | 1.4 | 7 |
| 53 | Processing of Facial Emotion in the Human Fusiform Gyrus. Journal of Cognitive Neuroscience, 2012, 24, 1358-1370. | 2.3 | 71 |
| 54 | A new device concept for directly modulating spinal cord pathways: initialin vivoexperimental results. Physiological Measurement, 2012, 33, 2003-2015. | 2.1 | 26 |

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|---|---|---|---|
| 55 | Ovine Tests of a Novel Spinal Cord Neuromodulator and Dentate Ligament Fixation Method. Journal of Investigative Surgery, 2012, 25, 366-374. | 1.3 | 20 |
| 56 | Manifestation of ocular-muscle EMG contamination in human intracranial recordings. NeuroImage, 2011, 54, 213-233. | 4.2 | 125 |
| 57 | Human Auditory Cortical Activation during Self-Vocalization. PLoS ONE, 2011, 6, e14744. | 2.5 | 101 |
| 58 | Predictive Coding and Pitch Processing in the Auditory Cortex. Journal of Cognitive Neuroscience, 2011, 23, 3084-3094. | 2.3 | 61 |
| 59 | Value Encoding in Single Neurons in the Human Amygdala during Decision Making. Journal of Neuroscience, 2011, 31, 331-338. | 3.6 | 118 |
| 60 | Intracranial Study of Speech-Elicited Activity on the Human Posterolateral Superior Temporal Gyrus. Cerebral Cortex, 2011, 21, 2332-2347. | 2.9 | 91 |
| 61 | A method for placing Heschl gyrus depth electrodes. Journal of Neurosurgery, 2010, 112, 1301-1307. | 1.6 | 43 |
| 62 | Direct Recordings of Pitch Responses from Human Auditory Cortex. Current Biology, 2010, 20, 1128-1132. | 3.9 | 100 |
| 63 | Stereotactic Atlas-Based Depth Electrode Localization in the Human Amygdala. Stereotactic and Functional Neurosurgery, 2009, 87, 219-228. | 1.5 | 18 |
| 64 | Decoding movement-related cortical potentials from electrocorticography. Neurosurgical Focus, 2009, 27, E11. | 2.3 | 16 |
| 65 | A â€œneurosurgical crisisâ€•of sickle cell disease. Journal of Neurosurgery: Pediatrics, 2009, 4, 532-535. | 1.3 | 35 |
| 66 | Coding of Repetitive Transients by Auditory Cortex on Heschl's Gyrus. Journal of Neurophysiology, 2009, 102, 2358-2374. | 1.8 | 177 |
| 67 | Temporal Envelope of Time-Compressed Speech Represented in the Human Auditory Cortex. Journal of Neuroscience, 2009, 29, 15564-15574. | 3.6 | 217 |
| 68 | Functional localization of auditory cortical fields of human: Click-train stimulation. Hearing Research, 2008, 238, 12-24. | 2.0 | 63 |
| 69 | Decoding Face Information in Time, Frequency and Space from Direct Intracranial Recordings of the Human Brain. PLoS ONE, 2008, 3, e3892. | 2.5 | 94 |
| 70 | Auditory-visual processing represented in the human superior temporal gyrus. Neuroscience, 2007, 145, 162-184. | 2.3 | 89 |
| 71 | Functional connections within the human inferior frontal gyrus. Journal of Comparative Neurology, 2007, 503, 550-559. | 1.6 | 60 |
| 72 | Functional connections between auditory cortical fields in humans revealed by Granger causality analysis of intra-cranial evoked potentials to sounds: Comparison of two methods. BioSystems, 2007, 89, 198-207. | 2.0 | 31 |

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|---|---|---|---|
| 73 | Intracranial electrophysiology of the human orbitofrontal cortex. , 2006, , 355-376. | | 6 |
| 74 | Electrophysiological correlates of reward prediction error recorded in the human prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8351-8356. | 7.1 | 57 |
| 75 | Analysis of Single-Unit Responses to Emotional Scenes in Human Ventromedial Prefrontal Cortex. Journal of Cognitive Neuroscience, 2005, 17, 1509-1518. | 2.3 | 45 |
| 76 | A Functional Connection Between Inferior Frontal Gyrus and Orofacial Motor Cortex in Human. Journal of Neurophysiology, 2004, 92, 1153-1164. | 1.8 | 83 |
| 77 | Intracortical Responses in Human and Monkey Primary Auditory Cortex Support a Temporal Processing Mechanism for Encoding of the Voice Onset Time Phonetic Parameter. Cerebral Cortex, 2004, 15, 170-186. | 2.9 | 104 |
| 78 | A device for cooling localized regions of human cerebral cortex. Journal of Neurosurgery, 2003, 99, 604-608. | 1.6 | 42 |
| 79 | Electrophysiological Responses in the Human Amygdala Discriminate Emotion Categories of Complex Visual Stimuli. Journal of Neuroscience, 2002, 22, 9502-9512. | 3.6 | 214 |