

# Hiroto Kawasaki

## List of Publications by Year in descending order

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105  
papers

4,826  
citations

101543

36  
h-index

114465

63  
g-index

117  
all docs

117  
docs citations

117  
times ranked

5778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-neuron responses to emotional visual stimuli recorded in human ventral prefrontal cortex. <i>Nature Neuroscience</i> , 2001, 4, 15-16.	14.8	338
2	Genome-wide DNA methylation comparison between live human brain and peripheral tissues within individuals. <i>Translational Psychiatry</i> , 2019, 9, 47.	4.8	279
3	Temporal Envelope of Time-Compressed Speech Represented in the Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2009, 29, 15564-15574.	3.6	217
4	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
5	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. <i>Journal of Neuroscience</i> , 2015, 35, 10281-10289.	3.6	180
6	Coding of Repetitive Transients by Auditory Cortex on Heschl's Gyrus. <i>Journal of Neurophysiology</i> , 2009, 102, 2358-2374.	1.8	177
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	Value Encoding in Single Neurons in the Human Amygdala during Decision Making. <i>Journal of Neuroscience</i> , 2011, 31, 331-338.	3.6	118
10	Effects of gap junction blockers on human neocortical synchronization. <i>Neurobiology of Disease</i> , 2006, 22, 496-508.	4.4	108
11	Human Auditory Cortical Activation during Self-Vocalization. <i>PLoS ONE</i> , 2011, 6, e14744.	2.5	101
12	Direct Recordings of Pitch Responses from Human Auditory Cortex. <i>Current Biology</i> , 2010, 20, 1128-1132.	3.9	100
13	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
14	Intracranial Study of Speech-Elicited Activity on the Human Posterolateral Superior Temporal Gyrus. <i>Cerebral Cortex</i> , 2011, 21, 2332-2347.	2.9	91
15	Auditory-visual processing represented in the human superior temporal gyrus. <i>Neuroscience</i> , 2007, 145, 162-184.	2.3	89
16	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
17	Intracranial Mapping of a Cortical Tinnitus System using Residual Inhibition. <i>Current Biology</i> , 2015, 25, 1208-1214.	3.9	83
18	Functional organization of human auditory cortex: Investigation of response latencies through direct recordings. <i>NeuroImage</i> , 2014, 101, 598-609.	4.2	78

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19	GABA-dependent generation of ectopic action potentials in the rat hippocampus. <i>European Journal of Neuroscience</i> , 1998, 10, 2714-2722.	2.6	76
20	Processing of Facial Emotion in the Human Fusiform Gyrus. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 1358-1370.	2.3	71
21	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
22	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
23	Functional localization of auditory cortical fields of human: Click-train stimulation. <i>Hearing Research</i> , 2008, 238, 12-24.	2.0	63
24	Predictive Coding and Pitch Processing in the Auditory Cortex. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3084-3094.	2.3	61
25	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
26	Functional connections within the human inferior frontal gyrus. <i>Journal of Comparative Neurology</i> , 2007, 503, 550-559.	1.6	60
27	Sensory-Motor Interactions for Vocal Pitch Monitoring in Non-Primary Human Auditory Cortex. <i>PLoS ONE</i> , 2013, 8, e60783.	2.5	60
28	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
29	Sequence learning modulates neural responses and oscillatory coupling in human and monkey auditory cortex. <i>PLoS Biology</i> , 2017, 15, e2000219.	5.6	56
30	Auditory Predictive Coding across Awareness States under Anesthesia: An Intracranial Electrophysiology Study. <i>Journal of Neuroscience</i> , 2018, 38, 8441-8452.	3.6	52
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	A Sound-Sensitive Source of Alpha Oscillations in Human Non-Primary Auditory Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 8679-8689.	3.6	47
33	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
34	Muscarinic Receptor Activation Induces Depolarizing Plateau Potentials in Bursting Neurons of the Rat Subiculum. <i>Journal of Neurophysiology</i> , 1999, 82, 2590-2601.	1.8	43
35	A method for placing Heschl gyrus depth electrodes. <i>Journal of Neurosurgery</i> , 2010, 112, 1301-1307.	1.6	43
36	A device for cooling localized regions of human cerebral cortex. <i>Journal of Neurosurgery</i> , 2003, 99, 604-608.	1.6	42

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37	Intracranial EEG for seizure focus localization: evolving techniques, outcomes, complications, and utility of combining surface and depth electrodes. <i>Journal of Neurosurgery</i> , 2019, 130, 1180-1192.	1.6	42
38	Cortical functional connectivity indexes arousal state during sleep and anesthesia. <i>NeuroImage</i> , 2020, 211, 116627.	4.2	42
39	The bispectrum and its relationship to phase-amplitude coupling. <i>NeuroImage</i> , 2018, 173, 518-539.	4.2	41
40	Drug repositioning in epilepsy reveals novel antiseizure candidates. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 295-309.	3.7	40
41	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
42	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
43	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
44	Processing of auditory novelty across the cortical hierarchy: An intracranial electrophysiology study. <i>NeuroImage</i> , 2018, 183, 412-424.	4.2	35
45	Repetitive firing and oscillatory activity of pyramidal-like bursting neurons in the rat subiculum. <i>Experimental Brain Research</i> , 1997, 114, 507-517.	1.5	33
46	In vitro electrophysiology of rat subicular bursting neurons. <i>Hippocampus</i> , 1997, 7, 48-57.	1.9	33
47	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
48	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
49	Multiple actions of the novel anticonvulsant drug topiramate in the rat subiculum in vitro. <i>Brain Research</i> , 1998, 807, 125-134.	2.2	29
50	Common fronto-temporal effective connectivity in humans and monkeys. <i>Neuron</i> , 2021, 109, 852-868.e8.	8.1	28
51	Conscious Perception as Integrated Information Patterns in Human Electroencephalography. <i>ENeuro</i> , 2017, 4, ENEURO.0085-17.2017.	1.9	28
52	Vagus nerve stimulation after lead revision. <i>Neurosurgical Focus</i> , 2012, 32, E11.	2.3	27
53	A new device concept for directly modulating spinal cord pathways: initial in vivo experimental results. <i>Physiological Measurement</i> , 2012, 33, 2003-2015.	2.1	26
54	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

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55	Role of the temporal pole in temporal lobe epilepsy seizure networks: an intracranial electrode investigation. <i>Journal of Neurosurgery</i> , 2018, 129, 165-173.	1.6	25
56	Intracranial Somatosensory Responses with Direct Spinal Cord Stimulation in Anesthetized Sheep. <i>PLoS ONE</i> , 2013, 8, e56266.	2.5	25
57	Epigenetics of Delirium and Aging: Potential Role of DNA Methylation Change on Cytokine Genes in Glia and Blood Along With Aging. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 311.	3.4	24
58	Electrophysiology of the Human Superior Temporal Sulcus during Speech Processing. <i>Cerebral Cortex</i> , 2021, 31, 1131-1148.	2.9	24
59	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
60	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
61	Genome-wide DNA methylation investigation of glucocorticoid exposure within buccal samples. <i>Psychiatry and Clinical Neurosciences</i> , 2019, 73, 323-330.	1.8	23
62	Case Report: Stimulation of the Right Amygdala Induces Transient Changes in Affective Bias. <i>Brain Stimulation</i> , 2014, 7, 690-693.	1.6	22
63	Electrocorticographic delineation of human auditory cortical fields based on effects of propofol anesthesia. <i>NeuroImage</i> , 2017, 152, 78-93.	4.2	21
64	Oscillatory correlates of auditory working memory examined with human electrocorticography. <i>Neuropsychologia</i> , 2021, 150, 107691.	1.6	21
65	Differential responses to spectrally degraded speech within human auditory cortex: An intracranial electrophysiology study. <i>Hearing Research</i> , 2019, 371, 53-65.	2.0	20
66	Direct electrophysiological mapping of human pitch-related processing in auditory cortex. <i>NeuroImage</i> , 2019, 202, 116076.	4.2	19
67	Stereotactic Atlas-Based Depth Electrode Localization in the Human Amygdala. <i>Stereotactic and Functional Neurosurgery</i> , 2009, 87, 219-228.	1.5	18
68	Mapping the temporal pole with a specialized electrode array: technique and preliminary results. <i>Physiological Measurement</i> , 2014, 35, 323-337.	2.1	18
69	Intracranial markers of conscious face perception in humans. <i>NeuroImage</i> , 2017, 162, 322-343.	4.2	17
70	Decoding movement-related cortical potentials from electrocorticography. <i>Neurosurgical Focus</i> , 2009, 27, E11.	2.3	16
71	Network and Intrinsic Contributions to Carbachol-Induced Oscillations in the Rat Subiculum. <i>Journal of Neurophysiology</i> , 2001, 86, 1164-1178.	1.8	15
72	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

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73	Excitatory effects induced by carbachol on bursting neurons of the rat subiculum. <i>Neuroscience Letters</i> , 1996, 219, 1-4.	2.1	14
74	Neural phase locking predicts BOLD response in human auditory cortex. <i>NeuroImage</i> , 2018, 169, 286-301.	4.2	14
75	Cortical responses to auditory novelty across task conditions: An intracranial electrophysiology study. <i>Hearing Research</i> , 2021, 399, 107911.	2.0	14
76	Topiramate depresses carbachol-induced plateau potentials in subicular bursting cells. <i>NeuroReport</i> , 2000, 11, 75-77.	1.2	13
77	Antiepileptic drugs and muscarinic receptor-dependent excitation in the rat subiculum. <i>Neuropharmacology</i> , 2007, 52, 1291-1302.	4.1	13
78	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
79	Amygdala enlargement in mesial temporal lobe epilepsy: an alternative imaging presentation of limbic epilepsy. <i>Neuroradiology</i> , 2019, 61, 119-127.	2.2	13
80	Utility and safety of depth electrodes within the supratemporal plane for intracranial EEG. <i>Journal of Neurosurgery</i> , 2019, 131, 772-780.	1.6	11
81	Postoperative radiographic findings in patients undergoing intracranial electrode monitoring for medically refractory epilepsy. <i>Journal of Neurosurgery</i> , 2010, 112, 449-454.	1.6	10
82	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
83	Catenin delta-1 (CTNND1) phosphorylation controls the mesenchymal to epithelial transition in astrocytic tumors. <i>Human Molecular Genetics</i> , 2016, 25, 4201-4210.	2.9	10
84	DNA methylation in the inflammatory genes after neurosurgery and diagnostic ability of post-operative delirium. <i>Translational Psychiatry</i> , 2021, 11, 627.	4.8	8
85	Functional hemispherotomy in Rasmussen syndrome in the absence of classic MRI findings. <i>Epilepsy &amp; Behavior Case Reports</i> , 2017, 7, 24-27.	1.5	7
86	Cortical Responses to Vowel Sequences in Awake and Anesthetized States: A Human Intracranial Electrophysiology Study. <i>Cerebral Cortex</i> , 2021, 31, 5435-5448.	2.9	7
87	Gamma Activation and Alpha Suppression within Human Auditory Cortex during a Speech Classification Task. <i>Journal of Neuroscience</i> , 2022, 42, 5034-5046.	3.6	7
88	Intracranial electrophysiology of the human orbitofrontal cortex. , 2006, , 355-376.		6
89	Naming and recognition after laser amygdalohippocampotomy: Is the hippocampus involved?. <i>Epilepsia</i> , 2015, 56, 1317-1317.	5.1	5
90	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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91	Drug-resistant epilepsy development following stem cell transplant and cyclosporine neurotoxicity induced seizures: Case report in an adult and analysis of reported cases in the literature. <i>Epilepsy &amp; Behavior Case Reports</i> , 2018, 10, 8-13.	1.5	5
92	Arousal State-Dependence of Interactions Between Short- and Long-Term Auditory Novelty Responses in Human Subjects. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 737230.	2.0	5
93	Bone flap elevation for intracranial EEG monitoring: technical note. <i>Journal of Neurosurgery</i> , 2018, 129, 182-187.	1.6	4
94	Focal Cortical Surface Cooling is a Novel and Safe Method for Intraoperative Functional Brain Mapping. <i>World Neurosurgery</i> , 2021, 147, e118-e129.	1.3	4
95	Neural Correlates of Vocal Auditory Feedback Processing: Unique Insights from Electrocardiography Recordings in a Human Cochlear Implant User. <i>Euro</i> , 2021, 8, ENEURO.0181-20.2020.	1.9	4
96	Using speech and electrocortigraphy to map human auditory cortex. , 2014, 2014, 6798-801.		3
97	57. Genome-Wide DNA Methylation Comparison by Illumina Epic Array between Live Human Brain and Peripheral Tissues within Individuals. <i>Biological Psychiatry</i> , 2017, 81, S24.	1.3	3
98	Contribution of GABAA-mediated conductances to anoxia-induced depolarization. <i>NeuroReport</i> , 1998, 9, 4189-4192.	1.2	2
99	C1â€“C2 Motion During C-MAC D-Blade Videolaryngoscopy and Endotracheal Intubation in 2 Patients With Type II Odontoid Fractures. <i>A&amp;A Practice</i> , 2019, 13, 121-123.	0.4	2
100	Diagnosis of vascular compression in facial spasm by stereoscopic short-range magnetic resonance angiography. <i>Journal of Neurosurgery</i> , 1995, 83, 561-562.	1.6	1
101	Sensorimotor integration during human self-vocalization: Insights from invasive electrophysiology. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0
102	Stereoencephalography to localize epileptic foci in children. <i>Journal of Pediatric Epilepsy</i> , 2015, 03, 055-062.	0.2	0
103	Delayed diagnosis of shunt overdrainage following functional hemispherotomy and ventriculoperitoneal shunt placement in a hemimegalencephaly patient. <i>Epilepsy &amp; Behavior Case Reports</i> , 2017, 7, 34-36.	1.5	0
104	S5. Epigenetics of Delirium and Aging: Potential Role of DNA Methylation Change on Cytokine Genes in Glia and Blood Along With Aging. <i>Biological Psychiatry</i> , 2019, 85, S298.	1.3	0
105	SU60GENOME-WIDE DNA METHYLATION INVESTIGATION OF SYNTHETIC GLUCOCORTICOID EXPOSURE WITHIN HUMAN BUCCAL SAMPLES. <i>European Neuropsychopharmacology</i> , 2019, 29, S1299-S1300.	0.7	0