Itzhak Fried

List of Publications by Year
in descending order

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97 papers	12,864 citations	53794 45 h-index	33894 99 g-index
108 all docs	108 docs citations	108 times ranked	9963 citing authors

#	Article	IF	Citations
1	Laser ablation of human guilt. Brain Stimulation, 2022, 15, 164-166.	1.6	2
2	Ethical commitments, principles, and practices guiding intracranial neuroscientific research in humans. Neuron, 2022, 110, 188-194.	8.1	29
3	Neurons as will and representation. Nature Reviews Neuroscience, 2022, 23, 104-114.	10.2	13
4	Graph theoretical measures of fast ripples support the epileptic network hypothesis. Brain Communications, 2022, 4, .	3.3	16
5	Reduced neural feedback signaling despite robust neuron and gamma auditory responses during human sleep. Nature Neuroscience, 2022, 25, 935-943.	14.8	24
6	Subgroup analysis of seizure and cognitive outcome after vagal nerve stimulator implantation in children. Child's Nervous System, 2021, 37, 243-252.	1.1	9
7	Single-cell activity in human STG during perception of phonemes is organized according to manner of articulation. NeuroImage, 2021, 226, 117499.	4.2	12
8	Boundary-anchored neural mechanisms of location-encoding for self and others. Nature, 2021, 589, 420-425.	27.8	70
9	Stimulation of the right entorhinal white matter enhances visual memory encoding in humans. Brain Stimulation, 2021, 14, 131-140.	1.6	24
10	Highlights From AES2020, a Virtual American Epilepsy Society Experience. Epilepsy Currents, 2021, , 153575972110182.	0.8	1
11	Phase precession in the human hippocampus and entorhinal cortex. Cell, 2021, 184, 3242-3255.e10.	28.9	75
12	Safety of focused ultrasound neuromodulation in humans with temporal lobe epilepsy. Brain Stimulation, 2021, 14, 1022-1031.	1.6	41
13	Impaired Timing of Speech-Related Neurons in the Subthalamic Nucleus of Parkinson Disease Patients Suffering Speech Disorders. Neurosurgery, 2021, 89, 800-809.	1.1	3
14	Stimulating the inferior fronto-occipital fasciculus elicits complex visual hallucinations. Brain Stimulation, 2020, 13, 1577-1579.	1.6	6
15	Wireless Programmable Recording and Stimulation of Deep Brain Activity in Freely Moving Humans. Neuron, 2020, 108, 322-334.e9.	8.1	57
16	Anesthesia-induced loss of consciousness disrupts auditory responses beyond primary cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11770-11780.	7.1	40
17	The role of mPFC and MTL neurons in humanÂchoice under goal-conflict. Nature Communications, 2020, 11, 3192.	12.8	4
18	Ripples Have Distinct Spectral Properties and Phase-Amplitude Coupling With Slow Waves, but Indistinct Unit Firing, in Human Epileptogenic Hippocampus. Frontiers in Neurology, 2020, 11, 174.	2.4	24

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19	Modulation of Human Memory by Deep Brain Stimulation of the Entorhinal-Hippocampal Circuitry. Neuron, 2020, 106, 218-235.	8.1	72
20	Spatial distribution and hemispheric asymmetry of electrically evoked experiential phenomena in the human brain. Journal of Neurosurgery, 2020, 133, 54-62.	1.6	8
21	Conductive gel bridge sensor for motion tracking in simultaneous EEG-fMRI recordings. Epilepsy Research, 2019, 149, 117-122.	1.6	4
22	Negative and positive volitional responses induced by stimulating the superior frontal gyrus: A case study. Brain Stimulation, 2019, 12, 1614-1616.	1.6	2
23	A Tradeoff in the Neural Code across Regions and Species. Cell, 2019, 176, 597-609.e18.	28.9	71
24	Degradation of Neuronal Encoding of Speech in the Subthalamic Nucleus in Parkinson's Disease. Neurosurgery, 2019, 84, 378-387.	1.1	12
25	Conflict monitoring mechanism at the single-neuron level in the human ventral anterior cingulate cortex. NeuroImage, 2018, 175, 45-55.	4.2	13
26	A method for the topographical identification and quantification of high frequency oscillations in intracranial electroencephalography recordings. Clinical Neurophysiology, 2018, 129, 308-318.	1.5	33
27	Utilization of independent component analysis for accurate pathological ripple detection in intracranial EEG recordings recorded extra- and intra-operatively. Clinical Neurophysiology, 2018, 129, 296-307.	1.5	33
28	Improved quality of life and cognition after early vagal nerve stimulator implantation in children. Epilepsy and Behavior, 2018, 88, 139-145.	1.7	25
29	Lowâ€voltage fast seizures in humans begin with increased interneuron firing. Annals of Neurology, 2018, 84, 588-600.	5.3	81
30	Human single neuron activity precedes emergence of conscious perception. Nature Communications, 2018, 9, 2057.	12.8	45
31	Phase-tuned neuronal firing encodes human contextual representations for navigational goals. ELife, 2018, 7, .	6.0	91
32	Scene-selective coding by single neurons in the human parahippocampal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1153-1158.	7.1	37
33	Subthalamic Neurons Encode Both Single- and Multi-Limb Movements in Parkinsonâ€™s Disease Patients. Scientific Reports, 2017, 7, 42467.	3.3	10
34	Persistent Single-Neuron Activity during Working Memory in the Human Medial Temporal Lobe. Current Biology, 2017, 27, 1026-1032.	3.9	104
35	Failed epilepsy surgery deserves a second chance. Clinical Neurology and Neurosurgery, 2017, 163, 110-115.	1.4	21
36	Bimodal coupling of ripples and slower oscillations during sleep in patients with focal epilepsy. Epilepsia, 2017, 58, 1972-1984.	5.1	46

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37	Depth electrode neurofeedback with a virtual reality interface. Brain-Computer Interfaces, 2017, 4, 201-213.	1.8	17
38	Theta Oscillations in the Human Medial Temporal Lobe during Real-World Ambulatory Movement. Current Biology, 2017, 27, 3743-3751.e3.	3.9	137
39	Selective neuronal lapses precede human cognitive lapses following sleep deprivation. Nature Medicine, 2017, 23, 1474-1480.	30.7	142
40	Volition and Action in the Human Brain: Processes, Pathologies, and Reasons. Journal of Neuroscience, 2017, 37, 10842-10847.	3.6	46
41	Theta-burst microstimulation in the human entorhinal area improves memory specificity. ELife, 2017, 6, .	6.0	83
42	Brain Stimulation in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 789-791.	2.6	9
43	A non-aggressive, highly efficient, enzymatic method for dissociation of human brain-tumors and brain-tissues to viable single-cells. BMC Neuroscience, 2016, 17, 30.	1.9	45
44	Dual array EEG-fMRI: An approach for motion artifact suppression in EEG recorded simultaneously with fMRI. NeuroImage, 2016, 142, 674-686.	4.2	13
45	Ictal onset patterns of local field potentials, high frequency oscillations, and unit activity in human mesial temporal lobe epilepsy. Epilepsia, 2016, 57, 111-121.	5.1	108
46	Ripples on spikes show increased phaseâ€amplitude coupling in mesial temporal lobe epilepsy seizureâ€onset zones. Epilepsia, 2016, 57, 1916-1930.	5.1	69
47	Long-term coding of personal and universal associations underlying the memory web in the human brain. Nature Communications, 2016, 7, 13408.	12.8	54
48	Safety, efficacy, and life satisfaction following epilepsy surgery in patients aged 60 years and older. Journal of Neurosurgery, 2016, 124, 945-951.	1.6	31
49	Ictal Depth EEG and MRI Structural Evidence for Two Different Epileptogenic Networks in Mesial Temporal Lobe Epilepsy. PLoS ONE, 2015, 10, e0123588.	2.5	29
50	Preconscious Prediction of a Driver's Decision Using Intracranial Recordings. Journal of Cognitive Neuroscience, 2015, 27, 1492-1502.	2.3	17
51	Brain stimulation and memory. Brain, 2015, 138, 1766-1767.	7.6	8
52	Rapid Encoding of New Memories by Individual Neurons in the Human Brain. Neuron, 2015, 87, 220-230.	8.1	113
53	Decoding speech perception from single cell activity in humans. NeuroImage, 2015, 117, 151-159.	4.2	19
54	Repeating Spatial Activations in Human Entorhinal Cortex. Current Biology, 2015, 25, 1080-1085.	3.9	30

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55	Single-neuron activity and eye movements during human REM sleep and awake vision. Nature Communications, 2015, 6, 7884.	12.8	100
56	Specific responses of human hippocampal neurons are associated with better memory. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10503-10508.	7.1	44
57	Single-Cell Responses to Face Adaptation in the Human Medial Temporal Lobe. Neuron, 2014, 84, 363-369.	8.1	37
58	Cognitive-motor brainâ€“machine interfaces. Journal of Physiology (Paris), 2014, 108, 38-44.	2.1	30
59	Timing of Single-Neuron and Local Field Potential Responses in the Human Medial Temporal Lobe. Current Biology, 2014, 24, 299-304.	3.9	60
60	Distinct iEEG activity patterns in temporal-limbic and prefrontal sites induced by emotional intentionality. Cortex, 2014, 60, 121-138.	2.4	5
61	Direct recordings of grid-like neuronal activity in human spatial navigation. Nature Neuroscience, 2013, 16, 1188-1190.	14.8	431
62	Coding of Information in the Phase of Local Field Potentials within Human Medial Temporal Lobe. Neuron, 2013, 79, 594-606.	8.1	40
63	Cortex-based inter-subject analysis of iEEG and fMRI data sets: Application to sustained task-related BOLD and gamma responses. NeuroImage, 2013, 66, 457-468.	4.2	19
64	Human Intracranial Recordings and Cognitive Neuroscience. Annual Review of Psychology, 2012, 63, 511-537.	17.7	148
65	Percepts to recollections: insights from single neuron recordings in the human brain. Trends in Cognitive Sciences, 2012, 16, 427-436.	7.8	38
66	Memory Enhancement and Deep-Brain Stimulation of the Entorhinal Area. New England Journal of Medicine, 2012, 366, 502-510.	27.0	412
67	Behavioral correlates of human hippocampal delta and theta oscillations during navigation. Journal of Neurophysiology, 2011, 105, 1747-1755.	1.8	122
68	Internally Generated Preactivation of Single Neurons in Human Medial Frontal Cortex Predicts Volition. Neuron, 2011, 69, 548-562.	8.1	383
69	A category-specific response to animals in the right human amygdala. Nature Neuroscience, 2011, 14, 1247-1249.	14.8	129
70	Invariance of firing rate and field potential dynamics to stimulus modulation rate in human auditory cortex. Human Brain Mapping, 2011, 32, 1181-1193.	3.6	21
71	Single-Neuron Responses in Humans during Execution and Observation of Actions. Current Biology, 2010, 20, 750-756.	3.9	1,062
72	On-line, voluntary control of human temporal lobe neurons. Nature, 2010, 467, 1104-1108.	27.8	140

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73	A sense of direction in human entorhinal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6487-6492.	7.1	179
74	Human medial temporal lobe neurons respond preferentially to personally relevant images. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21329-21334.	7.1	93
75	Broadband Shifts in Local Field Potential Power Spectra Are Correlated with Single-Neuron Spiking in Humans. Journal of Neuroscience, 2009, 29, 13613-13620.	3.6	792
76	Explicit Encoding of Multimodal Percepts by Single Neurons in the Human Brain. Current Biology, 2009, 19, 1308-1313.	3.9	168
77	Internally Generated Reactivation of Single Neurons in Human Hippocampus During Free Recall. Science, 2008, 322, 96-101.	12.6	394
78	Latency and Selectivity of Single Neurons Indicate Hierarchical Processing in the Human Medial Temporal Lobe. Journal of Neuroscience, 2008, 28, 8865-8872.	3.6	188
79	High-resolution depth electrode localization and imaging in patients with pharmacologically intractable epilepsy. Journal of Neurosurgery, 2008, 108, 812-815.	1.6	21
80	Brain Oscillations Control Timing of Single-Neuron Activity in Humans. Journal of Neuroscience, 2007, 27, 3839-3844.	3.6	316
81	Local Field Potentials and Spikes in the Human Medial Temporal Lobe are Selective to Image Category. Journal of Cognitive Neuroscience, 2007, 19, 479-492.	2.3	66
82	Contrasting roles of neural firing rate and local field potentials in human memory. Hippocampus, 2007, 17, 606-617.	1.9	36
83	Sparse Representation in the Human Medial Temporal Lobe. Journal of Neuroscience, 2006, 26, 10232-10234.	3.6	183
84	Invasive recordings from the human brain: clinical insights and beyond. Nature Reviews Neuroscience, 2005, 6, 35-47.	10.2	374
85	Human hippocampal theta activity during virtual navigation. Hippocampus, 2005, 15, 881-889.	1.9	346
86	Cellular networks underlying human spatial navigation. Nature, 2003, 425, 184-188.	27.8	1,102
87	Single-neuron correlates of subjective vision in the human medial temporal lobe. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8378-8383.	7.1	178
88	Inhibitory and Excitatory Responses of Single Neurons in the Human Medial Temporal Lobe during Recognition of Faces and Objects. Cerebral Cortex, 2002, 12, 575-584.	2.9	61
89	Increased dopamine release in the human amygdala during performance of cognitive tasks. Nature Neuroscience, 2001, 4, 201-206.	14.8	96
90	Category-specific visual responses of single neurons in the human medial temporal lobe. Nature Neuroscience, 2000, 3, 946-953.	14.8	450

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91	Imagery neurons in the human brain. Nature, 2000, 408, 357-361.	27.8	315
92	Cerebral microdialysis combined with single-neuron and electroencephalographic recording in neurosurgical patients. Journal of Neurosurgery, 1999, 91, 697-705.	1.6	196
93	Hippocampal and Entorhinal Cortex High-Frequency Oscillations (100-500 Hz) in Human Epileptic Brain and in Kainic Acid-Treated Rats with Chronic Seizures. Epilepsia, 1999, 40, 127-137.	5.1	674
94	High-frequency oscillations in human brain. Hippocampus, 1999, 9, 137-142.	1.9	617
95	Highâ€frequency oscillations in human brain. Hippocampus, 1999, 9, 137-142.	1.9	10
96	Electric current stimulates laughter. Nature, 1998, 391, 650-650.	27.8	171
97	Single Neuron Activity in Human Hippocampus and Amygdala during Recognition of Faces and Objects. Neuron, 1997, 18, 753-765.	8.1	470