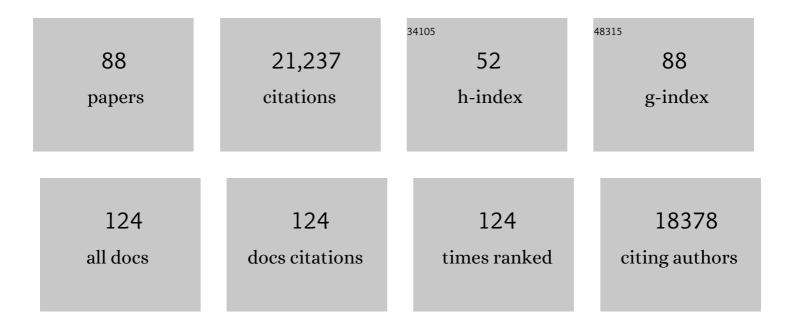
Kenneth D Harris

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Neural correlates of blood flow measured by ultrasound. Neuron, 2022, 110, 1631-1640.e4.	8.1	40
2	Disruption of VGLUT1 in Cholinergic Medial Habenula Projections Increases Nicotine Self-Administration. ENeuro, 2022, 9, ENEURO.0481-21.2021.	1.9	7
3	Striatal activity topographically reflects cortical activity. Nature, 2021, 591, 420-425.	27.8	139
4	Spatial modulation of visual responses arises in cortex with active navigation. ELife, 2021, 10, .	6.0	32
5	Neuropixels 2.0: A miniaturized high-density probe for stable, long-term brain recordings. Science, 2021, 372, .	12.6	467
6	Sensory coding and the causal impact of mouse cortex in a visual decision. ELife, 2021, 10, .	6.0	63
7	Dopamine Axons in Dorsal Striatum Encode Contralateral Visual Stimuli and Choices. Journal of Neuroscience, 2021, 41, 7197-7205.	3.6	24
8	Probabilistic cell typing enables fine mapping of closely related cell types in situ. Nature Methods, 2020, 17, 101-106.	19.0	187
9	Dopaminergic and Prefrontal Basis of Learning from Sensory Confidence and Reward Value. Neuron, 2020, 105, 700-711.e6.	8.1	109
10	Spatial connectivity matches direction selectivity in visual cortex. Nature, 2020, 588, 648-652.	27.8	87
11	Mouse Visual Cortex Is Modulated by Distance Traveled and by Theta Oscillations. Current Biology, 2020, 30, 3811-3817.e6.	3.9	47
12	Cortical State Fluctuations during Sensory Decision Making. Current Biology, 2020, 30, 4944-4955.e7.	3.9	48
13	Arousal Modulates Retinal Output. Neuron, 2020, 107, 487-495.e9.	8.1	90
14	Rigbox: An Open-Source Toolbox for Probing Neurons and Behavior. ENeuro, 2020, 7, ENEURO.0406-19.2020.	1.9	19
15	High-dimensional geometry of population responses in visual cortex. Nature, 2019, 571, 361-365.	27.8	370
16	Spontaneous behaviors drive multidimensional, brainwide activity. Science, 2019, 364, 255.	12.6	1,013
17	Distinct Structure of Cortical Population Activity on Fast and Infraslow Timescales. Cerebral Cortex, 2019, 29, 2196-2210.	2.9	50
18	Hippocampal CA1 Somatostatin Interneurons Originate in the Embryonic MGE/POA. Stem Cell Reports, 2019, 13, 793-802.	4.8	15

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19	Distributed coding of choice, action and engagement across the mouse brain. Nature, 2019, 576, 266-273.	27.8	452
20	The impact of bilateral ongoing activity on evoked responses in mouse cortex. ELife, 2019, 8, .	6.0	53
21	Vision and Locomotion Shape the Interactions between Neuron Types in Mouse Visual Cortex. Neuron, 2018, 98, 602-615.e8.	8.1	204
22	Effects of Arousal on Mouse Sensory Cortex Depend on Modality. Cell Reports, 2018, 22, 3160-3167.	6.4	71
23	Coherent encoding of subjective spatial position in visual cortex and hippocampus. Nature, 2018, 562, 124-127.	27.8	197
24	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. PLoS Computational Biology, 2018, 14, e1006157.	3.2	118
25	Robustness of Spike Deconvolution for Neuronal Calcium Imaging. Journal of Neuroscience, 2018, 38, 7976-7985.	3.6	143
26	Diversity of Interneurons in the Dorsal Striatum Revealed by Single-Cell RNA Sequencing and PatchSeq. Cell Reports, 2018, 24, 2179-2190.e7.	6.4	178
27	Molecular Architecture of the Mouse Nervous System. Cell, 2018, 174, 999-1014.e22.	28.9	2,002
28	Classes and continua of hippocampal CA1 inhibitory neurons revealed by single-cell transcriptomics. PLoS Biology, 2018, 16, e2006387.	5.6	226
29	Decision and navigation in mouse parietal cortex. ELife, 2018, 7, .	6.0	74
30	Subcortical Source and Modulation of the Narrowband Gamma Oscillation in Mouse Visual Cortex. Neuron, 2017, 93, 315-322.	8.1	140
31	Synaptic scaling in sleep. Science, 2017, 355, 457-457.	12.6	8
32	High-Yield Methods for Accurate Two-Alternative Visual Psychophysics in Head-Fixed Mice. Cell Reports, 2017, 20, 2513-2524.	6.4	152
33	Fully integrated silicon probes for high-density recording of neural activity. Nature, 2017, 551, 232-236.	27.8	1,531
34	Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines. ENeuro, 2017, 4, ENEURO.0207-17.2017.	1.9	221
35	Long Term Recordings with Immobile Silicon Probes in the Mouse Cortex. PLoS ONE, 2016, 11, e0151180.	2.5	72
36	Improving data quality in neuronal population recordings. Nature Neuroscience, 2016, 19, 1165-1174.	14.8	210

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37	Inhibitory control of correlated intrinsic variability in cortical networks. ELife, 2016, 5, .	6.0	83
38	The neocortical circuit: themes and variations. Nature Neuroscience, 2015, 18, 170-181.	14.8	880
39	Cortical State Determines Clobal Variability and Correlations in Visual Cortex. Journal of Neuroscience, 2015, 35, 170-178.	3.6	207
40	Stochastic transitions into silence cause noise correlations in cortical circuits. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3529-3534.	7.1	64
41	Cortical computation in mammals and birds. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3184-3185.	7.1	14
42	Diverse coupling of neurons to populations in sensory cortex. Nature, 2015, 521, 511-515.	27.8	393
43	Packet-based communication in the cortex. Nature Reviews Neuroscience, 2015, 16, 745-755.	10.2	160
44	The Nature of Shared Cortical Variability. Neuron, 2015, 87, 644-656.	8.1	208
45	Neurodata Without Borders: Creating a Common Data Format for Neurophysiology. Neuron, 2015, 88, 629-634.	8.1	171
46	High-Dimensional Cluster Analysis with the Masked EM Algorithm. Neural Computation, 2014, 26, 2379-2394.	2.2	271
47	Sleep replay meets brain–machine interface. Nature Neuroscience, 2014, 17, 1019-1021.	14.8	3
48	Ongoing Network State Controls the Length of Sleep Spindles via Inhibitory Activity. Neuron, 2014, 82, 1367-1379.	8.1	109
49	Supervised learning with decision margins in pools of spiking neurons. Journal of Computational Neuroscience, 2014, 37, 333-344.	1.0	3
50	A genuine layer 4 in motor cortex with prototypical synaptic circuit connectivity. ELife, 2014, 3, e05422.	6.0	114
51	Cortical connectivity and sensory coding. Nature, 2013, 503, 51-58.	27.8	536
52	Integration of visual motion and locomotion in mouse visual cortex. Nature Neuroscience, 2013, 16, 1864-1869.	14.8	353
53	Top-Down Control of Cortical State. Neuron, 2013, 79, 408-410.	8.1	11
54	Gating of Sensory Input by Spontaneous Cortical Activity. Journal of Neuroscience, 2013, 33, 1684-1695.	3.6	168

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55	Sleep and the single neuron: the role of global slow oscillations in individual cell rest. Nature Reviews Neuroscience, 2013, 14, 443-451.	10.2	244
56	The Convallis Rule for Unsupervised Learning in Cortical Networks. PLoS Computational Biology, 2013, 9, e1003272.	3.2	17
57	Hardware-accelerated interactive data visualization for neuroscience in Python. Frontiers in Neuroinformatics, 2013, 7, 36.	2.5	40
58	Laminar-dependent effects of cortical state on auditory cortical spontaneous activity. Frontiers in Neural Circuits, 2012, 6, 109.	2.8	56
59	Population Rate Dynamics and Multineuron Firing Patterns in Sensory Cortex. Journal of Neuroscience, 2012, 32, 17108-17119.	3.6	57
60	Cell Assemblies of the Superficial Cortex. Neuron, 2012, 76, 263-265.	8.1	11
61	Towards reliable spike-train recordings from thousands of neurons with multielectrodes. Current Opinion in Neurobiology, 2012, 22, 11-17.	4.2	184
62	Cortical state and attention. Nature Reviews Neuroscience, 2011, 12, 509-523.	10.2	749
63	How do neurons work together? Lessons from auditory cortex. Hearing Research, 2011, 271, 37-53.	2.0	51
64	State-Dependent Representation of Amplitude-Modulated Noise Stimuli in Rat Auditory Cortex. Journal of Neuroscience, 2011, 31, 6414-6420.	3.6	95
65	Methods for predicting cortical UP and DOWN states from the phase of deep layer local field potentials. Journal of Computational Neuroscience, 2010, 29, 49-62.	1.0	61
66	The Asynchronous State in Cortical Circuits. Science, 2010, 327, 587-590.	12.6	955
67	A Simple Model of Cortical Dynamics Explains Variability and State Dependence of Sensory Responses in Urethane-Anesthetized Auditory Cortex. Journal of Neuroscience, 2009, 29, 10600-10612.	3.6	151
68	Population coding of tone stimuli in auditory cortex: dynamic rate vector analysis. European Journal of Neuroscience, 2009, 30, 1767-1778.	2.6	44
69	Spontaneous Events Outline the Realm of Possible Sensory Responses in Neocortical Populations. Neuron, 2009, 62, 413-425.	8.1	499
70	Laminar Structure of Spontaneous and Sensory-Evoked Population Activity in Auditory Cortex. Neuron, 2009, 64, 404-418.	8.1	544
71	Stability of the fittest: organizing learning through retroaxonal signals. Trends in Neurosciences, 2008, 31, 130-136.	8.6	85
72	Early cognitive and language skills are linked to resting frontal gamma power across the first 3 years. Behavioural Brain Research, 2008, 195, 215-222.	2.2	174

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73	Theta-Mediated Dynamics of Spatial Information in Hippocampus. Journal of Neuroscience, 2008, 28, 5959-5964.	3.6	54
74	Valuations for Spike Train Prediction. Neural Computation, 2008, 20, 644-667.	2.2	12
75	Sequential structure of neocortical spontaneous activity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 347-352.	7.1	477
76	The Upshot of Up States in the Neocortex: From Slow Oscillations to Memory Formation. Journal of Neuroscience, 2007, 27, 11838-11841.	3.6	59
77	Firing rate modulation: A simple statistical view of memory trace reactivation. Neural Networks, 2005, 18, 1280-1291.	5.9	31
78	Hallucinations and nonsensory correlates of neural activity. Behavioral and Brain Sciences, 2004, 27, 796-796.	0.7	3
79	Characterization of Neocortical Principal Cells and Interneurons by Network Interactions and Extracellular Features. Journal of Neurophysiology, 2004, 92, 600-608.	1.8	734
80	Organization of cell assemblies in the hippocampus. Nature, 2003, 424, 552-556.	27.8	788
81	Place Representation within Hippocampal Networks Is Modified by Long-Term Potentiation. Neuron, 2003, 39, 843-853.	8.1	176
82	Massively Parallel Recording of Unit and Local Field Potentials With Silicon-Based Electrodes. Journal of Neurophysiology, 2003, 90, 1314-1323.	1.8	371
83	Spike train dynamics predicts theta-related phase precession in hippocampal pyramidal cells. Nature, 2002, 417, 738-741.	27.8	343
84	Temporal Interaction between Single Spikes and Complex Spike Bursts in Hippocampal Pyramidal Cells. Neuron, 2001, 32, 141-149.	8.1	339
85	Experimental modelling of time-of-flight sonar. Robotics and Autonomous Systems, 1998, 24, 33-42.	5.1	24
86	Absolute localization for a mobile robot using place cells. Robotics and Autonomous Systems, 1997, 22, 393-406.	5.1	3
87	A Computational Model of Cholinergic Disruption of Septohippocampal Activity in Classical Eyeblink Conditioning. Neurobiology of Learning and Memory, 1996, 66, 51-66.	1.9	67
88	Memory for places: A navigational model in support of Marr's theory of hippocampal function. , 1996, 6, 735-748.		60