Tai-Sing Lee

List of Publications by Year
in descending order

18 papers	2,594 citations	1040056 9 h-index	1058476 14 g-index
19 all docs	19 docs citations	19 times ranked	2421 citing authors

#	ARTICLE	IF	CITATIONS
1	Image representation using 2D Gabor wavelets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 959-971.	13.9	1,156
2	Hierarchical Bayesian inference in the visual cortex. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1434.	1.5	1,085
3	Long-Term Two-Photon Imaging in Awake Macaque Monkey. Neuron, 2017, 93, 1049-1057.e3.	8.1	104
4	Computations in the early visual cortex. Journal of Physiology (Paris), 2003, 97, 121-139.	2.1	55
5	Complex Pattern Selectivity in Macaque Primary Visual Cortex Revealed by Large-Scale Two-Photon Imaging. Current Biology, 2018, 28, 38-48.e3.	3.9	46
6	Top-down influence in early visual processing: a Bayesian perspective. Physiology and Behavior, 2002, 77, 645-650.	2.1	39
7	Convolutional neural network models of V1 responses to complex patterns. Journal of Computational Neuroscience, 2019, 46, 33-54.	1.0	36
8	The Visual System's Internal Model of the World. Proceedings of the IEEE, 2015, 103, 1359-1378.	21.3	20
9	The Nature of Illusory Contour Computation. Neuron, 2002, 33, 667-668.	8.1	13
10	Development of Natural Scene Representation in Primary Visual Cortex Requires Early Postnatal Experience. Current Biology, 2021, 31, 369-380.e5.	3.9	9
11	Accounting for network effects in neuronal responses using L1 regularized point process models. Advances in Neural Information Processing Systems, 2010, 23, 1099-1107.	2.8	9
12	Evidence of Stereoscopic Surface Disambiguation in the Responses of V1 Neurons. Cerebral Cortex, 2017, 27, bhw064.	2.9	6
13	Relating functional connectivity in V1 neural circuits and 3D natural scenes using Boltzmann machines. Vision Research, 2016, 120, 121-131.	1.4	4
14	Learning Robust Object Recognition Using Composed Scenes from Generative Models. , 2017, , .		3
15	Stochastic feature mapping for PAC-Bayes classification. Machine Learning, 2015, 101, 5-33.	5.4	2
16	Learning to Associate Words and Images Using a Large-Scale Graph. , 2017, , .		2
17	Informatics of spike trains in neuronal ensemble. , 0, , .		1
18	Complexity and diversity in sparse code priors improve receptive field characterization of Macaque V1 neurons. PLoS Computational Biology, 2021, 17, e1009528.	3.2	0