Fabian H Sinz

List of Publications by Year
in descending order

19 papers	2,077 citations	687363 13 h-index	839539 18 g-index
35 all docs	35 docs citations	35 times ranked	2879 citing authors

#	Article	IF	Citations
1	Principles of connectivity among morphologically defined cell types in adult neocortex. Science, 2015, 350, aac9462.	12.6	736
2	Trading convexity for scalability. , 2006, , .		179
3	Population code in mouse V1 facilitates readout of natural scenes through increased sparseness. Nature Neuroscience, 2014, 17, 851-857.	14.8	167
4	Inference with the Universum. , 2006, , .		128
5	Engineering a Less Artificial Intelligence. Neuron, 2019, 103, 967-979.	8.1	113
6	Inception loops discover what excites neurons most using deep predictive models. Nature Neuroscience, 2019, 22, 2060-2065.	14.8	104
7	Alternative Splicing Substantially Diversifies the Transcriptome during Early Photomorphogenesis and Correlates with the Energy Availability in Arabidopsis. Plant Cell, 2016, 28, 2715-2734.	6.6	97
8	Natural Image Coding in V1: How Much Use Is Orientation Selectivity?. PLoS Computational Biology, 2009, 5, e1000336.	3.2	38
9	Cell type composition and circuit organization of clonally related excitatory neurons in the juvenile mouse neocortex. ELife, 2020, 9, .	6.0	37
10	Learning Depth from Stereo. Lecture Notes in Computer Science, 2004, , 245-252.	1.3	28
11	Temporal Adaptation Enhances Efficient Contrast Gain Control on Natural Images. PLoS Computational Biology, 2013, 9, e1002889.	3.2	23
12	Tracking activity patterns of a multispecies community of gymnotiform weakly electric fish in their neotropical habitat without tagging. Journal of Experimental Biology, 2020, 223, .	1.7	23
13	Encoding of social signals in all three electrosensory pathways of<i>Eigenmannia virescens</i>. Journal of Neurophysiology, 2014, 112, 2076-2091.	1.8	17
14	Characterization of the p-generalized normal distribution. Journal of Multivariate Analysis, 2009, 100, 817-820.	1.0	16
15	Lower bounds on the redundancy of natural images. Vision Research, 2010, 50, 2213-2222.	1.4	16
16	Response to Comment on â€œPrinciples of connectivity among morphologically defined cell types in adult neocortexâ€. Science, 2016, 353, 1108-1108.	12.6	13
17	Simultaneous spike-time locking to multiple frequencies. Journal of Neurophysiology, 2020, 123, 2355-2372.	1.8	7
18	What Is the Limit of Redundancy Reduction with Divisive Normalization?. Neural Computation, 2013, 25, 2809-2814.	2.2	4

#	Article	IF	Citations
19	Likelihood Estimation in Deep Belief Networks. Frontiers in Computational Neuroscience, 0, 4, .	2.1	0