

Ben D B Willmore

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3817621/publications.pdf>

Version: 2024-02-01

28
papers

1,446
citations

430442

18
h-index

580395

25
g-index

36
all docs

36
docs citations

36
times ranked

1250
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple transformations capture auditory input to cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28442-28451.	3.3	27
2	Contrast gain control occurs independently of both parvalbumin-positive interneuron activity and shunting inhibition in auditory cortex. <i>Journal of Neurophysiology</i> , 2020, 123, 1536-1551.	0.9	17
3	Neural circuits underlying auditory contrast gain control and their perceptual implications. <i>Nature Communications</i> , 2020, 11, 324.	5.8	47
4	A dynamic network model of temporal receptive fields in primary auditory cortex. <i>PLoS Computational Biology</i> , 2019, 15, e1006618.	1.5	18
5	Recent advances in understanding the auditory cortex. <i>F1000Research</i> , 2018, 7, 1555.	0.8	49
6	Sensory cortex is optimized for prediction of future input. <i>ELife</i> , 2018, 7, .	2.8	53
7	Contrast gain control in mouse auditory cortex. <i>Journal of Neurophysiology</i> , 2018, 120, 1872-1884.	0.9	30
8	Measuring the Performance of Neural Models. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 10.	1.2	70
9	Network Receptive Field Modeling Reveals Extensive Integration and Multi-feature Selectivity in Auditory Cortical Neurons. <i>PLoS Computational Biology</i> , 2016, 12, e1005113.	1.5	56
10	Incorporating Midbrain Adaptation to Mean Sound Level Improves Models of Auditory Cortical Processing. <i>Journal of Neuroscience</i> , 2016, 36, 280-289.	1.7	47
11	Hearing in noisy environments: noise invariance and contrast gain control. <i>Journal of Physiology</i> , 2014, 592, 3371-3381.	1.3	39
12	Temporal predictability as a grouping cue in the perception of auditory streams. <i>Journal of the Acoustical Society of America</i> , 2013, 134, EL98-EL104.	0.5	18
13	Constructing Noise-Invariant Representations of Sound in the Auditory Pathway. <i>PLoS Biology</i> , 2013, 11, e1001710.	2.6	130
14	Spectrotemporal Contrast Kernels for Neurons in Primary Auditory Cortex. <i>Journal of Neuroscience</i> , 2012, 32, 11271-11284.	1.7	68
15	Contrast normalization contributes to a biologically-plausible model of receptive-field development in primary visual cortex (V1). <i>Vision Research</i> , 2012, 54, 49-60.	0.7	12
16	Contrast Gain Control in Auditory Cortex. <i>Neuron</i> , 2011, 70, 1178-1191.	3.8	233
17	Object Vision: A Matter of Principle. <i>Current Biology</i> , 2011, 21, R153-R155.	1.8	0
18	Sparse coding in striate and extrastriate visual cortex. <i>Journal of Neurophysiology</i> , 2011, 105, 2907-2919.	0.9	78

#	ARTICLE	IF	CITATIONS
19	Neural Representation of Natural Images in Visual Area V2. <i>Journal of Neuroscience</i> , 2010, 30, 2102-2114.	1.7	98
20	Auditory Cortex: Representation through Sparsification?. <i>Current Biology</i> , 2009, 19, R1123-R1125.	1.8	8
21	The Berkeley Wavelet Transform: A Biologically Inspired Orthogonal Wavelet Transform. <i>Neural Computation</i> , 2008, 20, 1537-1564.	1.3	31
22	Independent Components of Color Natural Scenes Resemble V1 Neurons in Their Spatial and Color Tuning. <i>Journal of Neurophysiology</i> , 2004, 91, 2859-2873.	0.9	81
23	Methods for first-order kernel estimation: simple-cell receptive fields from responses to natural scenes. <i>Network: Computation in Neural Systems</i> , 2003, 14, 553-577.	2.2	34
24	The Receptive-Field Organization of Simple Cells in Primary Visual Cortex of Ferrets under Natural Scene Stimulation. <i>Journal of Neuroscience</i> , 2003, 23, 4746-4759.	1.7	114
25	Methods for first-order kernel estimation: simple-cell receptive fields from responses to natural scenes. <i>Network: Computation in Neural Systems</i> , 2003, 14, 553-77.	2.2	14
26	A Comparison of Natural-Image-Based Models of Simple-Cell Coding. <i>Perception</i> , 2000, 29, 1017-1040.	0.5	30
27	Methods for first-order kernel estimation: simple-cell receptive fields from responses to natural scenes. , 0, .		16
28	Cortical adaptation to sound reverberation. <i>ELife</i> , 0, 11, .	2.8	7