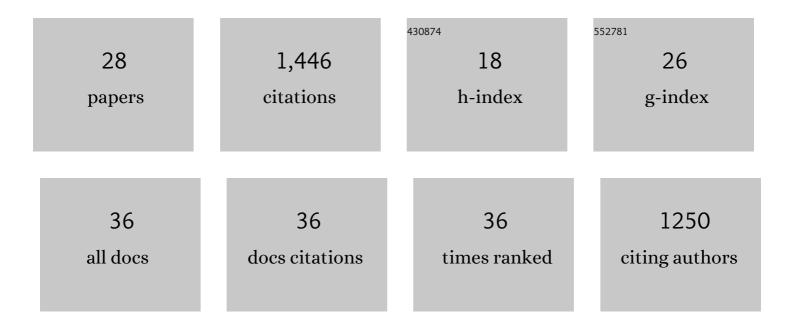
Ben D B Willmore

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3817621/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Contrast Gain Control in Auditory Cortex. Neuron, 2011, 70, 1178-1191.	8.1	233
2	Constructing Noise-Invariant Representations of Sound in the Auditory Pathway. PLoS Biology, 2013, 11, e1001710.	5.6	130
3	The Receptive-Field Organization of Simple Cells in Primary Visual Cortex of Ferrets under Natural Scene Stimulation. Journal of Neuroscience, 2003, 23, 4746-4759.	3.6	114
4	Neural Representation of Natural Images in Visual Area V2. Journal of Neuroscience, 2010, 30, 2102-2114.	3.6	98
5	Independent Components of Color Natural Scenes Resemble V1 Neurons in Their Spatial and Color Tuning. Journal of Neurophysiology, 2004, 91, 2859-2873.	1.8	81
6	Sparse coding in striate and extrastriate visual cortex. Journal of Neurophysiology, 2011, 105, 2907-2919.	1.8	78
7	Measuring the Performance of Neural Models. Frontiers in Computational Neuroscience, 2016, 10, 10.	2.1	70
8	Spectrotemporal Contrast Kernels for Neurons in Primary Auditory Cortex. Journal of Neuroscience, 2012, 32, 11271-11284.	3.6	68
9	Network Receptive Field Modeling Reveals Extensive Integration and Multi-feature Selectivity in Auditory Cortical Neurons. PLoS Computational Biology, 2016, 12, e1005113.	3.2	56
10	Sensory cortex is optimized for prediction of future input. ELife, 2018, 7, .	6.0	53
11	Recent advances in understanding the auditory cortex. F1000Research, 2018, 7, 1555.	1.6	49
12	Incorporating Midbrain Adaptation to Mean Sound Level Improves Models of Auditory Cortical Processing. Journal of Neuroscience, 2016, 36, 280-289.	3.6	47
13	Neural circuits underlying auditory contrast gain control and their perceptual implications. Nature Communications, 2020, 11, 324.	12.8	47
14	Hearing in noisy environments: noise invariance and contrast gain control. Journal of Physiology, 2014, 592, 3371-3381.	2.9	39
15	Methods for first-order kernel estimation: simple-cell receptive fields from responses to natural scenes. Network: Computation in Neural Systems, 2003, 14, 553-577.	3.6	34
16	The Berkeley Wavelet Transform: A Biologically Inspired Orthogonal Wavelet Transform. Neural Computation, 2008, 20, 1537-1564.	2.2	31
17	A Comparison of Natural-Image-Based Models of Simple-Cell Coding. Perception, 2000, 29, 1017-1040.	1.2	30
18	Contrast gain control in mouse auditory cortex. Journal of Neurophysiology, 2018, 120, 1872-1884.	1.8	30

BEN D B WILLMORE

#	Article	IF	CITATIONS
19	Simple transformations capture auditory input to cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28442-28451.	7.1	27
20	Temporal predictability as a grouping cue in the perception of auditory streams. Journal of the Acoustical Society of America, 2013, 134, EL98-EL104.	1.1	18
21	A dynamic network model of temporal receptive fields in primary auditory cortex. PLoS Computational Biology, 2019, 15, e1006618.	3.2	18
22	Contrast gain control occurs independently of both parvalbumin-positive interneuron activity and shunting inhibition in auditory cortex. Journal of Neurophysiology, 2020, 123, 1536-1551.	1.8	17
23	Methods for first-order kernel estimation: simple-cell receptive fields from responses to natural scenes. Network: Computation in Neural Systems, 2003, 14, 553-577.	3.6	16
24	Methods for first-order kernel estimation: simple-cell receptive fields from responses to natural scenes. Network: Computation in Neural Systems, 2003, 14, 553-77.	3.6	14
25	Contrast normalization contributes to a biologically-plausible model of receptive-field development in primary visual cortex (V1). Vision Research, 2012, 54, 49-60.	1.4	12
26	Auditory Cortex: Representation through Sparsification?. Current Biology, 2009, 19, R1123-R1125.	3.9	8
27	Cortical adaptation to sound reverberation. ELife, 0, 11, .	6.0	7
28	Object Vision: A Matter of Principle. Current Biology, 2011, 21, R153-R155.	3.9	0