Nicol S Harper

List of Publications by Year
in descending order

25	1,517	566801	610482
papers	citations	15	24
		h-index	g-index

36	36	36	1173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neural population coding of sound level adapts to stimulus statistics. Nature Neuroscience, 2005, 8, 1684-1689.	7.1	443
2	Optimal neural population coding of an auditory spatial cue. Nature, 2004, 430, 682-686.	13.7	258
3	Rapid Neural Adaptation to Sound Level Statistics. Journal of Neuroscience, 2008, 28, 6430-6438.	1.7	170
4	Meta-adaptation in the auditory midbrain under cortical influence. Nature Communications, 2016, 7, 13442.	5.8	90
5	Measuring the Performance of Neural Models. Frontiers in Computational Neuroscience, 2016, 10, 10.	1.2	70
6	Temporal predictability enhances auditory detection. Journal of the Acoustical Society of America, 2014, 135, EL357-EL363.	0.5	57
7	Network Receptive Field Modeling Reveals Extensive Integration and Multi-feature Selectivity in Auditory Cortical Neurons. PLoS Computational Biology, 2016, 12, e1005113.	1.5	56
8	Sensory cortex is optimized for prediction of future input. ELife, 2018, 7, .	2.8	53
9	Incorporating Midbrain Adaptation to Mean Sound Level Improves Models of Auditory Cortical Processing. Journal of Neuroscience, 2016, 36, 280-289.	1.7	47
10	A Device for Human Ultrasonic Echolocation. IEEE Transactions on Biomedical Engineering, 2015, 62, 1526-1534.	2.5	40
11	Midbrain adaptation may set the stage for the perception of musical beat. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171455.	1.2	29
12	The Neural Code for Auditory Space Depends on Sound Frequency and Head Size in an Optimal Manner. PLoS ONE, 2014, 9, e108154.	1.1	28
13	Simple transformations capture auditory input to cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28442-28451.	3.3	27
14	Adaptive coding is constrained to midline locations in a spatial listening task. Journal of Neurophysiology, 2012, 108, 1856-1868.	0.9	25
15	Rhythm Facilitates the Detection of Repeating Sound Patterns. Frontiers in Neuroscience, 2016, 10, 9.	1.4	20
16	Temporal predictability as a grouping cue in the perception of auditory streams. Journal of the Acoustical Society of America, 2013, 134, EL98-EL104.	0.5	18
17	A dynamic network model of temporal receptive fields in primary auditory cortex. PLoS Computational Biology, 2019, 15, e1006618.	1.5	18
18	Selective Adaptation to "Oddball" Sounds by the Human Auditory System. Journal of Neuroscience, 2014, 34, 1963-1969.	1.7	13

#	ARTICLE	IF	CITATIONS
19	STRFs in primary auditory cortex emerge from masking-based statistics of natural sounds. PLoS Computational Biology, 2019, 15, e1006595.	1.5	9
20	Auditory cortical representation of music favours the perceived beat. Royal Society Open Science, 2020, 7, 191194.	1.1	8
21	Exploring the distribution of statistical feature parameters for natural sound textures. PLoS ONE, 2021, 16, e0238960.	1.1	7
22	Cortical adaptation to sound reverberation. ELife, 0, 11, .	2.8	7
23	Temporal Constraints on Visual Learning: A Computational Model. Perception, 1999, 28, 1089-1104.	0.5	5
24	Sensitivity of neural responses in the inferior colliculus to statistical features of sound textures. Hearing Research, 2021, 412, 108357.	0.9	3
25	Temporal constraints on visual learning: a computational model. Perception, 1999, 28, 1089-1104.	0.5	2