

# Heather L Read

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,227  
citations

361413

20  
h-index

315739

38  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1473  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrotemporal Receptive Fields in the Lemniscal Auditory Thalamus and Cortex. <i>Journal of Neurophysiology</i> , 2002, 87, 516-527.	1.8	328
2	Multiparametric Auditory Receptive Field Organization Across Five Cortical Fields in the Albino Rat. <i>Journal of Neurophysiology</i> , 2007, 97, 3621-3638.	1.8	289
3	Modular Organization of Frequency Integration in Primary Auditory Cortex. <i>Annual Review of Neuroscience</i> , 2000, 23, 501-529.	10.7	234
4	Functional Convergence of Response Properties in the Auditory Thalamocortical System. <i>Neuron</i> , 2001, 32, 151-160.	8.1	195
5	Functional architecture of auditory cortex. <i>Current Opinion in Neurobiology</i> , 2002, 12, 433-440.	4.2	143
6	Naturalistic Auditory Contrast Improves Spectrotemporal Coding in the Cat Inferior Colliculus. <i>Journal of Neuroscience</i> , 2003, 23, 11489-11504.	3.6	111
7	A high-density, high-channel count, multiplexed $\hat{1}/4$ ECoG array for auditory-cortex recordings. <i>Journal of Neurophysiology</i> , 2014, 112, 1566-1583.	1.8	90
8	Spectral and Temporal Modulation Tradeoff in the Inferior Colliculus. <i>Journal of Neurophysiology</i> , 2010, 103, 887-903.	1.8	73
9	Neural Modulation Tuning Characteristics Scale to Efficiently Encode Natural Sound Statistics. <i>Journal of Neuroscience</i> , 2010, 30, 15969-15980.	3.6	72
10	The acoustical cues to sound location in the rat: Measurements of directional transfer functions. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 4297-4309.	1.1	71
11	A Spiking Neuron Model of Cortical Correlates of Sensorineural Hearing Loss: Spontaneous Firing, Synchrony, and Tinnitus. <i>Neural Computation</i> , 2006, 18, 2942-2958.	2.2	64
12	Thalamic label patterns suggest primary and ventral auditory fields are distinct core regions. <i>Journal of Comparative Neurology</i> , 2010, 518, 1630-1646.	1.6	52
13	Specialization of Binaural Responses in Ventral Auditory Cortices. <i>Journal of Neuroscience</i> , 2010, 30, 14522-14532.	3.6	49
14	Representation of spectrotemporal sound information in the ascending auditory pathway. <i>Biological Cybernetics</i> , 2003, 89, 350-362.	1.3	44
15	The Contribution of Spike Threshold to Acoustic Feature Selectivity, Spike Information Content, and Information Throughput. <i>Journal of Neuroscience</i> , 2005, 25, 9524-9534.	3.6	37
16	Thalamocortical pathway specialization for sound frequency resolution. <i>Journal of Comparative Neurology</i> , 2011, 519, 177-193.	1.6	36
17	Precise Feature Based Time Scales and Frequency Decorrelation Lead to a Sparse Auditory Code. <i>Journal of Neuroscience</i> , 2012, 32, 8454-8468.	3.6	34
18	Gene Expression Identifies Distinct Ascending Glutamatergic Pathways to Frequency-Organized Auditory Cortex in the Rat Brain. <i>Journal of Neuroscience</i> , 2012, 32, 15759-15768.	3.6	29

#	ARTICLE	IF	CITATIONS
19	Spectrotemporal sound preferences of neighboring inferior colliculus neurons: implications for local circuitry and processing. <i>Frontiers in Neural Circuits</i> , 2012, 6, 62.	2.8	26
20	Neural spike-timing patterns vary with sound shape and periodicity in three auditory cortical fields. <i>Journal of Neurophysiology</i> , 2016, 115, 1886-1904.	1.8	26
21	Neural Mechanisms for Spectral Analysis in the Auditory Midbrain, Thalamus, and Cortex. <i>International Review of Neurobiology</i> , 2005, 70, 207-252.	2.0	22
22	Two thalamic pathways to primary auditory cortex. <i>Neuroscience</i> , 2008, 152, 151-159.	2.3	22
23	Early cortical damage in rat somatosensory cortex alters acoustic feature representation in primary auditory cortex. <i>Neuroscience</i> , 2007, 150, 970-983.	2.3	20
24	Distinct neural ensemble response statistics are associated with recognition and discrimination of natural sound textures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31482-31493.	7.1	19
25	A Hierarchy of Time Scales for Discriminating and Classifying the Temporal Shape of Sound in Three Auditory Cortical Fields. <i>Journal of Neuroscience</i> , 2018, 38, 6967-6982.	3.6	17
26	Serotonergic suppression of interhemispheric cortical synaptic potentials. <i>Brain Research</i> , 1994, 643, 17-28.	2.2	16
27	Data-driven Koopman operator approach for computational neuroscience. <i>Annals of Mathematics and Artificial Intelligence</i> , 2020, 88, 1155-1173.	1.3	16
28	Distinct core thalamocortical pathways to central and dorsal primary auditory cortex. <i>Hearing Research</i> , 2011, 274, 95-104.	2.0	14
29	Models of the temporal dynamics of visual processing. <i>Journal of Statistical Physics</i> , 1993, 70, 297-308.	1.2	13
30	Spectral processing deficits in belt auditory cortex following early postnatal lesions of somatosensory cortex. <i>Neuroscience</i> , 2008, 153, 535-549.	2.3	12
31	Deterministic dynamics emerging from a cortical functional architecture. <i>Neural Networks</i> , 2001, 14, 697-713.	5.9	11
32	Origins of scale invariance in vocalization sequences and speech. <i>PLoS Computational Biology</i> , 2018, 14, e1005996.	3.2	9
33	Modeling stimulus-dependent variability improves decoding of population neural responses. <i>Journal of Neural Engineering</i> , 2019, 16, 066018.	3.5	7
34	Optimal Multichannel Artifact Prediction and Removal for Neural Stimulation and Brain Machine Interfaces. <i>Frontiers in Neuroscience</i> , 2020, 14, 709.	2.8	7
35	Novel acoustic stimuli can alter locomotor speed to hippocampal theta relationship. <i>Hippocampus</i> , 2014, 24, 1053-1058.	1.9	6
36	A temporal integration mechanism enhances frequency selectivity of broadband inputs to inferior colliculus. <i>PLoS Biology</i> , 2019, 17, e2005861.	5.6	5

#	ARTICLE	IF	CITATIONS
37	Data-driven spectral decomposition of ECoG signal from an auditory oddball experiment in a marmoset monkey: Implications for EEG data in humans. , 2018, , .		3
38	Temporal Processing in the Visual Brain. Annals of the New York Academy of Sciences, 1993, 682, 171-178.	3.8	2
39	Thalamocortical pathway specialization for sound frequency resolution. Journal of Comparative Neurology, 2011, 519, spc1-spc1.	1.6	2
40	Sensing Sound Through Thalamocortical Afferent Architecture and Cortical Microcircuits. Springer Handbook of Auditory Research, 2018, , 169-198.	0.7	1
41	Thalamic label patterns suggest primary and ventral auditory fields are distinct core regions. Journal of Comparative Neurology, 2010, 518, spc1-spc1.	1.6	0