Katrina M Macleod

List of Publications by Year
in descending order

27 papers	1,390 citations	687363 13 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	1279 citing authors

#	Article	IF	Citations
1	Distinct Mechanisms for Synchronization and Temporal Patterning of Odor-Encoding Neural Assemblies. Science, 1996, 274, 976-979.	12.6	391
2	Activity Coregulates Quantal AMPA and NMDA Currents at Neocortical Synapses. Neuron, 2000, 26, 659-670.	8.1	300
3	Who reads temporal information contained across synchronized and oscillatory spike trains?. Nature, 1998, 395, 693-698.	27.8	266
4	Bat and Rat Neurons Differ in Theta-Frequency Resonance Despite Similar Coding of Space. Science, 2013, 340, 363-367.	12.6	78
5	A Role for Short-Term Synaptic Facilitation and Depression in the Processing of Intensity Information in the Auditory Brain Stem. Journal of Neurophysiology, 2007, 97, 2863-2874.	1.8	59
6	Interaural timing difference circuits in the auditory brainstem of the emu (Dromaius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (nova	1.6	41
7	Spatiotemporal Structure of Olfactory Inputs to the Mushroom Bodies. Learning and Memory, 1998, 5, 124-132.	1.3	34
8	Beyond timing in the auditory brainstem: intensity coding in the avian cochlear nucleus angularis. Progress in Brain Research, 2007, 165, 123-133.	1.4	33
9	Short-term synaptic plasticity and intensity coding. Hearing Research, 2011, 279, 13-21.	2.0	28
10	Microseconds Matter. PLoS Biology, 2010, 8, e1000405.	5.6	23
11	Synaptic Physiology in the Cochlear Nucleus Angularis of the Chick. Journal of Neurophysiology, 2005, 93, 2520-2529.	1.8	22
12	Dynamic Encoding of Odors With Oscillating Neuronal Assemblies in the Locust Brain. Biological Bulletin, 1996, 191, 70-75.	1.8	20
13	Emergence of band-pass filtering through adaptive spiking in the owl's cochlear nucleus. Journal of Neurophysiology, 2014, 112, 430-445.	1.8	16
14	Heterogeneity of intrinsic biophysical properties among cochlear nucleus neurons improves the population coding of temporal information. Journal of Neurophysiology, 2014, 111, 2320-2331.	1.8	13
15	Intrinsic firing properties in the avian auditory brain stem allow both integration and encoding of temporally modulated noisy inputs in vitro. Journal of Neurophysiology, 2012, 108, 2794-2809.	1.8	12
16	A rapid form of activity-dependent recovery from short-term synaptic depression in the intensity pathway of the auditory brainstem. Biological Cybernetics, 2011, 104, 209-223.	1.3	9
17	Heterogeneous Calretinin Expression in the Avian Cochlear Nucleus Angularis. JARO - Journal of the Association for Research in Otolaryngology, 2014, 15, 603-620.	1.8	8
18	Heat-Stable Toxin from <i>Escherichia col</i><i>i</i> Activates Chloride Current via cGMP-Dependent Protein Kinase. Cellular Physiology and Biochemistry, 1995, 5, 23-32.	1.6	7

#	Article	IF	Citations
19	Synaptic Mechanisms of Coincidence Detection. Springer Handbook of Auditory Research, 2012, , 135-164.	0.7	7
20	Spike threshold adaptation diversifies neuronal operating modes in the auditory brain stem. Journal of Neurophysiology, 2019, 122, 2576-2590.	1.8	7
21	Target-specific regulation of presynaptic release properties at auditory nerve terminals in the avian cochlear nucleus. Journal of Neurophysiology, 2016, 115, 1679-1690.	1.8	5
22	Dynamic representation of odours by oscillating neural assemblies. Entomologia Experimentalis Et Applicata, 1999, 91, 7-18.	1.4	3
23	Short-Term Synaptic Plasticity and Adaptation Contribute to the Coding of Timing and Intensity Information. , 2010, , 347-356.		3
24	Physiological Properties of Neurons in Bat Entorhinal Cortex Exhibit an Inverse Gradient along the Dorsal-Ventral Axis Compared to Entorhinal Neurons in Rat. Journal of Neuroscience, 2016, 36, 4591-4599.	3.6	2
25	Kv1 channels regulate variations in spike patterning and temporal reliability in the avian cochlear nucleus angularis. Journal of Neurophysiology, 2022, 127, 116-129.	1.8	2
26	Synaptic dynamics and intensity coding in the cochlear nucleus. , 2005, , 500-508.		0
27	Dynamic representation of odours by oscillating neural assemblies. , 1999, , 7-18.		0