

Kamal Sen

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,608
citations

361413

20
h-index

414414

32
g-index

36
all docs

36
docs citations

36
times ranked

2526
citing authors

#	ARTICLE	IF	CITATIONS
1	AIM: A network model of attention in auditory cortex. PLoS Computational Biology, 2021, 17, e1009356.	3.2	4
2	A Physiologically Inspired Model for Solving the Cocktail Party Problem. JARO - Journal of the Association for Research in Otolaryngology, 2019, 20, 579-593.	1.8	8
3	Muscarinic receptors regulate auditory and prefrontal cortical communication during auditory processing. Neuropharmacology, 2019, 144, 155-171.	4.1	10
4	A Decline in Response Variability Improves Neural Signal Detection during Auditory Task Performance. Journal of Neuroscience, 2016, 36, 11097-11106.	3.6	49
5	Cortical Transformation of Spatial Processing for Solving the Cocktail Party Problem: A Computational Model. ENeuro, 2016, 3, ENEURO.0086-15.2015.	1.9	13
6	Interactions across Multiple Stimulus Dimensions in Primary Auditory Cortex. ENeuro, 2016, 3, ENEURO.0124-16.2016.	1.9	8
7	Seasonal Plasticity of Precise Spike Timing in the Avian Auditory System. Journal of Neuroscience, 2015, 35, 3431-3445.	3.6	24
8	Auditory Forebrain Neurons Track Temporal Features of Time-Warped Natural Stimuli. JARO - Journal of the Association for Research in Otolaryngology, 2014, 15, 131-138.	1.8	0
9	Online Stimulus Optimization Rapidly Reveals Multidimensional Selectivity in Auditory Cortical Neurons. Journal of Neuroscience, 2014, 34, 8963-8975.	3.6	30
10	A computational model of spatial tuning in the auditory cortex in response to competing sound sources. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
11	Competing Sound Sources Reveal Spatial Effects in Cortical Processing. PLoS Biology, 2012, 10, e1001319.	5.6	37
12	Neuron-Specific Stimulus Masking Reveals Interference in Spike Timing at the Cortical Level. JARO - Journal of the Association for Research in Otolaryngology, 2012, 13, 81-89.	1.8	3
13	A Robust and Biologically Plausible Spike Pattern Recognition Network. Journal of Neuroscience, 2010, 30, 15566-15572.	3.6	18
14	A Biologically Plausible Computational Model for Auditory Object Recognition. Journal of Neurophysiology, 2009, 101, 323-331.	1.8	24
15	Analyzing Variability in Neural Responses to Complex Natural Sounds in the Awake Songbird. Journal of Neurophysiology, 2009, 101, 3147-3157.	1.8	7
16	Sparse coding of birdsong and receptive field structure in songbirds. Network: Computation in Neural Systems, 2009, 20, 162-177.	3.6	6
17	Cortical Gamma Rhythms Modulate NMDAR-Mediated Spike Timing Dependent Plasticity in a Biophysical Model. PLoS Computational Biology, 2009, 5, e1000602.	3.2	43
18	Spatial unmasking of birdsong in zebra finches (<i>Taeniopygia guttata</i>) and budgerigars (<i>Melopsittacus</i>)	0.5	33

#	ARTICLE	IF	CITATIONS
19	Invariance and Sensitivity to Intensity in Neural Discrimination of Natural Sounds. Journal of Neuroscience, 2008, 28, 6304-6308.	3.6	55
20	A New Multineuron Spike Train Metric. Neural Computation, 2008, 20, 1495-1511.	2.2	63
21	Temporal Coding of Time-Varying Stimuli. Neural Computation, 2007, 19, 3239-3261.	2.2	5
22	Cortical Discrimination of Complex Natural Stimuli: Can Single Neurons Match Behavior?. Journal of Neuroscience, 2007, 27, 582-589.	3.6	100
23	Cortical interference effects in the cocktail party problem. Nature Neuroscience, 2007, 10, 1601-1607.	14.8	81
24	Distinct Time Scales in Cortical Discrimination of Natural Sounds in Songbirds. Journal of Neurophysiology, 2006, 96, 252-258.	1.8	118
25	Network Architecture, Receptive Fields, and Neuromodulation: Computational and Functional Implications of Cholinergic Modulation in Primary Auditory Cortex. Journal of Neurophysiology, 2006, 96, 2972-2983.	1.8	26
26	Delayed Inhibition in Cortical Receptive Fields and the Discrimination of Complex Stimuli. Journal of Neurophysiology, 2005, 94, 2970-2975.	1.8	28
27	Spatial unmasking of birdsong in human listeners: Energetic and informational factors. Journal of the Acoustical Society of America, 2005, 118, 3766-3773.	1.1	52
28	Feature Analysis of Natural Sounds in the Songbird Auditory Forebrain. Journal of Neurophysiology, 2001, 86, 1445-1458.	1.8	211
29	Spectral-Temporal Receptive Fields of Nonlinear Auditory Neurons Obtained Using Natural Sounds. Journal of Neuroscience, 2000, 20, 2315-2331.	3.6	488
30	Temporal Dynamics of Convergent Modulation at a Crustacean Neuromuscular Junction. Journal of Neurophysiology, 1998, 80, 2559-2570.	1.8	84
31	Synaptic Depression and Cortical Gain Control. Science, 1997, 275, 221-224.	12.6	1,377
32	A Quantitative Description of Short-Term Plasticity at Excitatory Synapses in Layer 2/3 of Rat Primary Visual Cortex. Journal of Neuroscience, 1997, 17, 7926-7940.	3.6	527
33	Functional Significance of Synaptic Depression between Cortical Neurons. , 1997, , 429-434.		11
34	Decoding Synapses. Journal of Neuroscience, 1996, 16, 6307-6318.	3.6	61