

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	Synaptic Depression and Cortical Gain Control. <i>Science</i> , 1997, 275, 221-224.	12.6	1,377
2	A Quantitative Description of Short-Term Plasticity at Excitatory Synapses in Layer 2/3 of Rat Primary Visual Cortex. <i>Journal of Neuroscience</i> , 1997, 17, 7926-7940.	3.6	527
3	Spectral-Temporal Receptive Fields of Nonlinear Auditory Neurons Obtained Using Natural Sounds. <i>Journal of Neuroscience</i> , 2000, 20, 2315-2331.	3.6	488
4	Feature Analysis of Natural Sounds in the Songbird Auditory Forebrain. <i>Journal of Neurophysiology</i> , 2001, 86, 1445-1458.	1.8	211
5	Distinct Time Scales in Cortical Discrimination of Natural Sounds in Songbirds. <i>Journal of Neurophysiology</i> , 2006, 96, 252-258.	1.8	118
6	Cortical Discrimination of Complex Natural Stimuli: Can Single Neurons Match Behavior?. <i>Journal of Neuroscience</i> , 2007, 27, 582-589.	3.6	100
7	Temporal Dynamics of Convergent Modulation at a Crustacean Neuromuscular Junction. <i>Journal of Neurophysiology</i> , 1998, 80, 2559-2570.	1.8	84
8	Cortical interference effects in the cocktail party problem. <i>Nature Neuroscience</i> , 2007, 10, 1601-1607.	14.8	81
9	A New Multineuron Spike Train Metric. <i>Neural Computation</i> , 2008, 20, 1495-1511.	2.2	63
10	Decoding Synapses. <i>Journal of Neuroscience</i> , 1996, 16, 6307-6318.	3.6	61
11	Invariance and Sensitivity to Intensity in Neural Discrimination of Natural Sounds. <i>Journal of Neuroscience</i> , 2008, 28, 6304-6308.	3.6	55
12	Spatial unmasking of birdsong in human listeners: Energetic and informational factors. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 3766-3773.	1.1	52
13	A Decline in Response Variability Improves Neural Signal Detection during Auditory Task Performance. <i>Journal of Neuroscience</i> , 2016, 36, 11097-11106.	3.6	49
14	Cortical Gamma Rhythms Modulate NMDAR-Mediated Spike Timing Dependent Plasticity in a Biophysical Model. <i>PLoS Computational Biology</i> , 2009, 5, e1000602.	3.2	43
15	Competing Sound Sources Reveal Spatial Effects in Cortical Processing. <i>PLoS Biology</i> , 2012, 10, e1001319.	5.6	37
16	Spatial unmasking of birdsong in zebra finches (<i>Taeniopygia guttata</i>) and budgerigars (<i>Melopsittacus</i>)	0.5	33
17	Online Stimulus Optimization Rapidly Reveals Multidimensional Selectivity in Auditory Cortical Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 8963-8975.	3.6	30
18	Delayed Inhibition in Cortical Receptive Fields and the Discrimination of Complex Stimuli. <i>Journal of Neurophysiology</i> , 2005, 94, 2970-2975.	1.8	28

#	ARTICLE	IF	CITATIONS
19	Network Architecture, Receptive Fields, and Neuromodulation: Computational and Functional Implications of Cholinergic Modulation in Primary Auditory Cortex. <i>Journal of Neurophysiology</i> , 2006, 96, 2972-2983.	1.8	26
20	A Biologically Plausible Computational Model for Auditory Object Recognition. <i>Journal of Neurophysiology</i> , 2009, 101, 323-331.	1.8	24
21	Seasonal Plasticity of Precise Spike Timing in the Avian Auditory System. <i>Journal of Neuroscience</i> , 2015, 35, 3431-3445.	3.6	24
22	A Robust and Biologically Plausible Spike Pattern Recognition Network. <i>Journal of Neuroscience</i> , 2010, 30, 15566-15572.	3.6	18
23	Cortical Transformation of Spatial Processing for Solving the Cocktail Party Problem: A Computational Model. <i>ENeuro</i> , 2016, 3, ENEURO.0086-15.2015.	1.9	13
24	Functional Significance of Synaptic Depression between Cortical Neurons. , 1997, , 429-434.		11
25	Muscarinic receptors regulate auditory and prefrontal cortical communication during auditory processing. <i>Neuropharmacology</i> , 2019, 144, 155-171.	4.1	10
26	A Physiologically Inspired Model for Solving the Cocktail Party Problem. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2019, 20, 579-593.	1.8	8
27	Interactions across Multiple Stimulus Dimensions in Primary Auditory Cortex. <i>ENeuro</i> , 2016, 3, ENEURO.0124-16.2016.	1.9	8
28	Analyzing Variability in Neural Responses to Complex Natural Sounds in the Awake Songbird. <i>Journal of Neurophysiology</i> , 2009, 101, 3147-3157.	1.8	7
29	Sparse coding of birdsong and receptive field structure in songbirds. <i>Network: Computation in Neural Systems</i> , 2009, 20, 162-177.	3.6	6
30	Temporal Coding of Time-Varying Stimuli. <i>Neural Computation</i> , 2007, 19, 3239-3261.	2.2	5
31	AIM: A network model of attention in auditory cortex. <i>PLoS Computational Biology</i> , 2021, 17, e1009356.	3.2	4
32	Neuron-Specific Stimulus Masking Reveals Interference in Spike Timing at the Cortical Level. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2012, 13, 81-89.	1.8	3
33	A computational model of spatial tuning in the auditory cortex in response to competing sound sources. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
34	Auditory Forebrain Neurons Track Temporal Features of Time-Warped Natural Stimuli. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 131-138.	1.8	0