

Nobuo Suga

List of Publications by Year in descending order

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65
papers

4,990
citations

109321

35
h-index

110387

64
g-index

68
all docs

68
docs citations

68
times ranked

1943
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiparametric corticofugal modulation and plasticity in the auditory system. <i>Nature Reviews Neuroscience</i> , 2003, 4, 783-794.	10.2	360
2	Criticisms of 'Specific long-term memory traces in primary auditory cortex'. <i>Nature Reviews Neuroscience</i> , 2004, 5, 1-1.	10.2	341
3	Analysis of acoustic elements and syntax in communication sounds emitted by mustached bats. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 1229-1254.	1.1	268
4	Corticofugal modulation of frequency processing in bat auditory system. <i>Nature</i> , 1997, 387, 900-903.	27.8	220
5	Cortical computational maps for auditory imaging. <i>Neural Networks</i> , 1990, 3, 3-21.	5.9	207
6	Corticofugal modulation of the midbrain frequency map in the bat auditory system. <i>Nature Neuroscience</i> , 1998, 1, 54-58.	14.8	203
7	Plasticity and Corticofugal Modulation for Hearing in Adult Animals. <i>Neuron</i> , 2002, 36, 9-18.	8.1	180
8	Modulation of cochlear hair cells by the auditory cortex in the mustached bat. <i>Nature Neuroscience</i> , 2002, 5, 57-63.	14.8	152
9	Facilitative responses to species-specific calls in cortical FM-FM neurons of the mustached bat. <i>NeuroReport</i> , 1996, 7, 1749-1755.	1.2	140
10	Biosonar and Neural Computation in Bats. <i>Scientific American</i> , 1990, 262, 60-68.	1.0	136
11	Modulation of Responses and Frequency Tuning of Thalamic and Collicular Neurons by Cortical Activation in Mustached Bats. <i>Journal of Neurophysiology</i> , 2000, 84, 325-333.	1.8	136
12	Role of corticofugal feedback in hearing. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 169-183.	1.6	129
13	Sharpening of Frequency Tuning by Inhibition in the Thalamic Auditory Nucleus of the Mustached Bat. <i>Journal of Neurophysiology</i> , 1997, 77, 2098-2114.	1.8	127
14	Effects of Acetylcholine and Atropine on Plasticity of Central Auditory Neurons Caused by Conditioning in Bats. <i>Journal of Neurophysiology</i> , 2001, 86, 211-225.	1.8	126
15	Analysis of frequency-modulated and complex sounds by single auditory neurones of bats. <i>Journal of Physiology</i> , 1968, 198, 51-80.	2.9	124
16	The midbrain creates and the thalamus sharpens echo-delay tuning for the cortical representation of target-distance information in the mustached bat. <i>Hearing Research</i> , 1996, 93, 102-110.	2.0	119
17	Coding and processing in the auditory systems of FM-signal-producing bats. <i>Journal of the Acoustical Society of America</i> , 1973, 54, 174-190.	1.1	112
18	Corticofugal Amplification of Subcortical Responses to Single Tone Stimuli in the Mustached Bat. <i>Journal of Neurophysiology</i> , 1997, 78, 3489-3492.	1.8	109

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19	Plasticity of Bat's Central Auditory System Evoked by Focal Electric Stimulation of Auditory and/or Somatosensory Cortices. <i>Journal of Neurophysiology</i> , 2001, 85, 1078-1087.	1.8	108
20	Classification of inferior collicular neurones of bats in terms of responses to pure tones, frequency-modulated sounds and noise bursts. <i>Journal of Physiology</i> , 1969, 200, 555-574.	2.9	105
21	Sharpening of frequency tuning by inhibition in the central auditory system: tribute to Yasuji Katsuki. <i>Neuroscience Research</i> , 1995, 21, 287-299.	1.9	103
22	Reorganization of the Frequency Map of the Auditory Cortex Evoked by Cortical Electrical Stimulation in the Big Brown Bat. <i>Journal of Neurophysiology</i> , 2000, 83, 1856-1863.	1.8	95
23	Augmentation of Plasticity of the Central Auditory System by the Basal Forebrain and/or Somatosensory Cortex. <i>Journal of Neurophysiology</i> , 2003, 89, 90-103.	1.8	93
24	Tuning shifts of the auditory system by corticocortical and corticofugal projections and conditioning. <i>Neuroscience and Biobehavioral Reviews</i> , 2012, 36, 969-988.	6.1	77
25	Serotonergic Modulation of Plasticity of the Auditory Cortex Elicited by Fear Conditioning. <i>Journal of Neuroscience</i> , 2007, 27, 4910-4918.	3.6	74
26	Long-term cortical plasticity evoked by electric stimulation and acetylcholine applied to the auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9335-9340.	7.1	70
27	Corticofugal Amplification of Facilitative Auditory Responses of Subcortical Combination-Sensitive Neurons in the Mustached Bat. <i>Journal of Neurophysiology</i> , 1999, 81, 817-824.	1.8	68
28	Development of Reorganization of the Auditory Cortex Caused by Fear Conditioning: Effect of Atropine. <i>Journal of Neurophysiology</i> , 2003, 90, 1904-1909.	1.8	65
29	Facilitatory and Inhibitory Frequency Tuning of Combination-Sensitive Neurons in the Primary Auditory Cortex of Mustached Bats. <i>Journal of Neurophysiology</i> , 1999, 82, 2327-2345.	1.8	64
30	Connections among functional areas in the mustached bat auditory cortex. <i>Journal of Comparative Neurology</i> , 1998, 391, 366-396.	1.6	60
31	Neural mechanisms of complex-sound processing for echolocation. <i>Trends in Neurosciences</i> , 1984, 7, 20-27.	8.6	51
32	Centripetal and centrifugal reorganizations of frequency map of auditory cortex in gerbils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7108-7112.	7.1	49
33	Nonlinear partial differential equations and applications: Reorganization of the cochleotopic map in the bat's auditory system by inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15743-15748.	7.1	48
34	Corticofugal Feedback for Collicular Plasticity Evoked by Electric Stimulation of the Inferior Colliculus. <i>Journal of Neurophysiology</i> , 2005, 94, 2676-2682.	1.8	47
35	Effects of Agonists and Antagonists of NMDA and ACh Receptors on Plasticity of Bat Auditory System Elicited by Fear Conditioning. <i>Journal of Neurophysiology</i> , 2005, 94, 1199-1211.	1.8	41
36	Corticofugal Modulation of the Paradoxical Latency Shifts of Inferior Collicular Neurons. <i>Journal of Neurophysiology</i> , 2008, 100, 1127-1134.	1.8	37

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37	Analysis of information-bearing elements in complex sounds by auditory neurons of bats. <i>International Journal of Audiology</i> , 1972, 11, 58-72.	1.7	35
38	Response properties of FM-FM combination-sensitive neurons in the auditory cortex of the mustached bat. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1986, 159, 331-337.	1.6	35
39	Specific and Nonspecific Plasticity of the Primary Auditory Cortex Elicited by Thalamic Auditory Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 4888-4896.	3.6	35
40	Distribution of response types across entire hemispheres of the mustached bat's auditory cortex. <i>Journal of Comparative Neurology</i> , 1998, 391, 353-365.	1.6	34
41	Neural processing of auditory signals in the time domain: Delay-tuned coincidence detectors in the mustached bat. <i>Hearing Research</i> , 2015, 324, 19-36.	2.0	34
42	Lateral Inhibition for Center-Surround Reorganization of the Frequency Map of Bat Auditory Cortex. <i>Journal of Neurophysiology</i> , 2004, 92, 3192-3199.	1.8	33
43	Reorganization of the auditory cortex specialized for echo-delay processing in the mustached bat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1769-1774.	7.1	29
44	Multiple combination-sensitive neurons in the auditory cortex of the mustached bat. <i>Hearing Research</i> , 2001, 151, 15-29.	2.0	27
45	Modulation of auditory processing by cortico-cortical feed-forward and feedback projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7600-7605.	7.1	27
46	Tone-Specific and Nonspecific Plasticity of Inferior Colliculus Elicited by Pseudo-Conditioning: Role of Acetylcholine and Auditory and Somatosensory Cortices. <i>Journal of Neurophysiology</i> , 2009, 102, 941-952.	1.8	26
47	Modulation of thalamic auditory neurons by the primary auditory cortex. <i>Journal of Neurophysiology</i> , 2012, 108, 935-942.	1.8	25
48	Bilateral Cortical Interaction: Modulation of Delay-Tuned Neurons in the Contralateral Auditory Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 8405-8413.	3.6	22
49	Asymmetry in corticofugal modulation of frequency-tuning in mustached bat auditory system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19162-19167.	7.1	21
50	Multiparametric Corticofugal Modulation of Collicular Duration-Tuned Neurons: Modulation in the Amplitude Domain. <i>Journal of Neurophysiology</i> , 2007, 97, 3722-3730.	1.8	19
51	Tone-Specific and Nonspecific Plasticity of the Auditory Cortex Elicited by Pseudoconditioning: Role of Acetylcholine Receptors and the Somatosensory Cortex. <i>Journal of Neurophysiology</i> , 2008, 100, 1384-1396.	1.8	18
52	Plasticity of the adult auditory system based on corticocortical and corticofugal modulations. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 113, 461-478.	6.1	18
53	Corticocortical Interactions between and within Three Cortical Auditory Areas Specialized for Time-Domain Signal Processing. <i>Journal of Neuroscience</i> , 2009, 29, 7230-7237.	3.6	16
54	Distribution of response types across entire hemispheres of the mustached bat's auditory cortex. , 1998, 391, 353-365.		15

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55	Specialization of the auditory system for the processing of bio-sonar information in the frequency domain: Mustached bats. <i>Hearing Research</i> , 2018, 361, 1-22.	2.0	11
56	Distribution of response types across entire hemispheres of the mustached bat's auditory cortex. <i>Journal of Comparative Neurology</i> , 1998, 391, 353-365.	1.6	11
57	Synaptic mechanisms shaping delay-tuned combination-sensitivity in the auditory thalamus of mustached bats. <i>Hearing Research</i> , 2016, 331, 69-82.	2.0	10
58	Tribute to Yasuji Katsuki's Major Findings: Sharpening of Frequency Tuning in the Central Auditory System. <i>Acta Oto-Laryngologica</i> , 1997, 117, 9-12.	0.9	9
59	Parallel-Hierarchical Processing of Complex Sounds for Specialized Auditory Function. , 0, , 1409-1418.		9
60	Acuity in ranging based on delay-tuned combination-sensitive neurons in the auditory cortex of mustached bats. <i>Hearing Research</i> , 2017, 350, 189-204.	2.0	8
61	Histaminergic modulation of nonspecific plasticity of the auditory system and differential gating. <i>Journal of Neurophysiology</i> , 2013, 109, 792-802.	1.8	5
62	Inhibitory mechanisms shaping delay-tuned combination-sensitivity in the auditory cortex and thalamus of the mustached bat. <i>Hearing Research</i> , 2019, 373, 71-84.	2.0	5
63	Differences in velocity-information processing between two areas in the auditory cortex of mustached bats. <i>Hearing Research</i> , 2017, 350, 68-81.	2.0	2
64	Corticofugal system and processing of behaviorally relevant sounds: Perspective. <i>Acoustical Science and Technology</i> , 2001, 22, 85-91.	0.5	1
65	FM-FM combination-sensitive neurons in the mustached bat's auditory cortex.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1990, 66, 15-18.	3.8	0