

Daniel J Simons

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11309273/publications.pdf>

Version: 2024-02-01

66
papers

5,079
citations

76196

40
h-index

102304

66
g-index

69
all docs

69
docs citations

69
times ranked

2644
citing authors

#	ARTICLE	IF	CITATIONS
1	“The Job Has Become Advocating for the Job” Threats to Funding Dramatically Influence Program Outcomes. <i>American Journal of Health Promotion</i> , 2018, 32, 861-864.	0.9	3
2	Effect of whisker geometry on contact force produced by vibrissae moving at different velocities. <i>Journal of Neurophysiology</i> , 2017, 118, 1637-1649.	0.9	10
3	Long-Term Deficits in Cortical Circuit Function after Asphyxial Cardiac Arrest and Resuscitation in Developing Rats. <i>ENeuro</i> , 2017, 4, ENEURO.0319-16.2017.	0.9	5
4	Target-specific M1 inputs to infragranular S1 pyramidal neurons. <i>Journal of Neurophysiology</i> , 2016, 116, 1261-1274.	0.9	36
5	Response properties of whisker-associated primary afferent neurons following infraorbital nerve transection with microsurgical repair in adult rats. <i>Journal of Neurophysiology</i> , 2016, 115, 1458-1467.	0.9	3
6	Motor Cortex Broadly Engages Excitatory and Inhibitory Neurons in Somatosensory Barrel Cortex. <i>Cerebral Cortex</i> , 2014, 24, 2237-2248.	1.6	85
7	Neural Correlation Is Stimulus Modulated by Feedforward Inhibitory Circuitry. <i>Journal of Neuroscience</i> , 2012, 32, 506-518.	1.7	80
8	Thalamocortical Dysfunction and Thalamic Injury after Asphyxial Cardiac Arrest in Developing Rats. <i>Journal of Neuroscience</i> , 2012, 32, 4972-4981.	1.7	27
9	Effects of thalamic high-frequency electrical stimulation on whisker-evoked cortical adaptation. <i>Experimental Brain Research</i> , 2010, 200, 239-250.	0.7	8
10	Consistency of Angular Tuning in the Rat Vibrissa System. <i>Journal of Neurophysiology</i> , 2010, 104, 3105-3112.	0.9	13
11	Subthreshold Receptive Field Properties Distinguish Different Classes of Corticothalamic Neurons in the Somatosensory System. <i>Journal of Neuroscience</i> , 2009, 29, 964-972.	1.7	20
12	Subbarrel Patterns in Somatosensory Cortical Barrels Can Emerge from Local Dynamic Instabilities. <i>PLoS Computational Biology</i> , 2009, 5, e1000537.	1.5	5
13	Stimulus-Specific and Stimulus-Nonspecific Firing Synchrony and Its Modulation by Sensory Adaptation in the Whisker-to-Barrel Pathway. <i>Journal of Neurophysiology</i> , 2009, 101, 2328-2338.	0.9	29
14	Motor modulation of afferent somatosensory circuits. <i>Nature Neuroscience</i> , 2008, 11, 1430-1438.	7.1	151
15	Rapid Changes in Thalamic Firing Synchrony during Repetitive Whisker Stimulation. <i>Journal of Neuroscience</i> , 2008, 28, 11153-11164.	1.7	67
16	Response properties of mouse trigeminal ganglion neurons. <i>Somatosensory & Motor Research</i> , 2008, 25, 209-221.	0.4	20
17	Development of Thalamocortical Response Transformations in the Rat Whisker-Barrel System. <i>Journal of Neurophysiology</i> , 2008, 99, 356-366.	0.9	13
18	Layer- and Cell-Type-Specific Effects of Neonatal Whisker-Trimming in Adult Rat Barrel Cortex. <i>Journal of Neurophysiology</i> , 2007, 97, 4380-4385.	0.9	32

#	ARTICLE	IF	CITATIONS
19	Thalamocortical Conduction Times and Stimulus-Evoked Responses in the Rat Whisker-to-Barrel System. <i>Journal of Neurophysiology</i> , 2007, 98, 2842-2847.	0.9	16
20	Adaptation of trigeminal ganglion cells to periodic whisker deflections. <i>Somatosensory & Motor Research</i> , 2006, 23, 111-118.	0.4	20
21	Angularly Nonspecific Response Suppression in Rat Barrel Cortex. <i>Cerebral Cortex</i> , 2006, 17, 599-609.	1.6	23
22	Whisker Trimming Begun at Birth or on Postnatal Day 12 Affects Excitatory and Inhibitory Receptive Fields of Layer IV Barrel Neurons. <i>Journal of Neurophysiology</i> , 2005, 94, 3987-3995.	0.9	62
23	The Role of Thalamic Inputs in Surround Receptive Fields of Barrel Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 5926-5934.	1.7	43
24	Angular Tuning and Velocity Sensitivity in Different Neuron Classes Within Layer 4 of Rat Barrel Cortex. <i>Journal of Neurophysiology</i> , 2004, 91, 223-229.	0.9	52
25	Robust Temporal Coding in the Trigeminal System. <i>Science</i> , 2004, 304, 1986-1989.	6.0	149
26	Precise Temporal Responses in Whisker Trigeminal Neurons. <i>Journal of Neurophysiology</i> , 2004, 92, 665-668.	0.9	76
27	Functional Topography of Corticothalamic Feedback Enhances Thalamic Spatial Response Tuning in the Somatosensory Whisker/Barrel System. <i>Neuron</i> , 2004, 41, 639-651.	3.8	145
28	Serotonin and Whisking. <i>Neuron</i> , 2003, 39, 197-199.	3.8	1
29	Whisker plucking alters responses of rat trigeminal ganglion neurons. <i>Somatosensory & Motor Research</i> , 2003, 20, 233-238.	0.4	7
30	Cortical Damping: Analysis of Thalamocortical Response Transformations in Rodent Barrel Cortex. <i>Cerebral Cortex</i> , 2003, 13, 33-44.	1.6	116
31	Local Field Potentials and the Encoding of Whisker Deflections by Population Firing Synchrony in Thalamic Barreloids. <i>Journal of Neurophysiology</i> , 2003, 89, 2137-2145.	0.9	60
32	Response Transformation and Receptive-Field Synthesis in the Lemniscal Trigeminothalamic Circuit. <i>Journal of Neurophysiology</i> , 2003, 90, 1556-1570.	0.9	63
33	State-Dependent Processing of Sensory Stimuli by Thalamic Reticular Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 5264-5271.	1.7	49
34	Thalamocortical Angular Tuning Domains within Individual Barrels of Rat Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2003, 23, 9565-9574.	1.7	117
35	Protracted Development of Responses to Whisker Deflection in Rat Trigeminal Ganglion Neurons. <i>Journal of Neurophysiology</i> , 2003, 90, 1432-1437.	0.9	26
36	Response Properties of Whisker-Associated Trigeminothalamic Neurons in Rat Nucleus Principalis. <i>Journal of Neurophysiology</i> , 2003, 89, 40-56.	0.9	129

#	ARTICLE	IF	CITATIONS
37	Processing of Periodic Whisker Deflections By Neurons in the Ventroposterior Medial and Thalamic Reticular Nuclei. <i>Journal of Neurophysiology</i> , 2003, 90, 3087-3094.	0.9	40
38	Texture discrimination and unit recordings in the rat whisker/barrel system. <i>Physiology and Behavior</i> , 2002, 77, 671-675.	1.0	63
39	Feedforward Mechanisms of Excitatory and Inhibitory Cortical Receptive Fields. <i>Journal of Neuroscience</i> , 2002, 22, 10966-10975.	1.7	305
40	High Responsiveness and Direction Sensitivity of Neurons in the Rat Thalamic Reticular Nucleus to Vibrissa Deflections. <i>Journal of Neurophysiology</i> , 2000, 83, 2791-2801.	0.9	47
41	Circuit Dynamics and Coding Strategies in Rodent Somatosensory Cortex. <i>Journal of Neurophysiology</i> , 2000, 83, 1158-1166.	0.9	211
42	Inhibition Suppresses Transmission of Tonic Vibrissa-Evoked Activity in the Rat Ventrobasal Thalamus. <i>Journal of Neuroscience</i> , 2000, 20, RC100-RC100.	1.7	33
43	Sensory Loss by Selected Whisker Removal Produces Immediate Disinhibition in the Somatosensory Cortex of Behaving Rats. <i>Journal of Neuroscience</i> , 1999, 19, 9117-9125.	1.7	83
44	Functional Independence of Layer IV Barrels in Rodent Somatosensory Cortex. <i>Journal of Neurophysiology</i> , 1999, 82, 1311-1316.	0.9	76
45	Cortical Columnar Processing in the Rat Whisker-to-Barrel System. <i>Journal of Neurophysiology</i> , 1999, 82, 1808-1817.	0.9	100
46	Thalamic Relay of Afferent Responses to 1- to 12-Hz Whisker Stimulation in the Rat. <i>Journal of Neurophysiology</i> , 1998, 80, 1016-1019.	0.9	42
47	Effects of baclofen and phaclofen on receptive field properties of rat whisker barrel neurons. <i>Brain Research</i> , 1996, 712, 325-328.	1.1	34
48	A quantitative population model of whisker barrels: Re-examining the Wilson-Cowan equations. <i>Journal of Computational Neuroscience</i> , 1996, 3, 247-264.	0.6	118
49	The Relationship of Vibrissal Motor Cortex Unit Activity to Whisking in the Awake Rat. <i>Somatosensory & Motor Research</i> , 1996, 13, 115-127.	0.4	75
50	Task- and Subject-Related Differences in Sensorimotor Behavior during Active Touch. <i>Somatosensory & Motor Research</i> , 1995, 12, 1-9.	0.4	173
51	Neuronal Integration in the Somatosensory Whisker/Barrel Cortex. <i>Cerebral Cortex</i> , 1995, , 263-297.	0.6	55
52	Physiologic effects of nucleus basalis magnocellularis stimulation on rat barrel cortex neurons. <i>Experimental Brain Research</i> , 1994, 102, 21-33.	0.7	35
53	Electromyographic Activity of Mystacial Pad Musculature during Whisking Behavior in the Rat. <i>Somatosensory & Motor Research</i> , 1991, 8, 159-164.	0.4	88
54	Functional Asymmetries in the Rodent Barrel Cortex. <i>Somatosensory & Motor Research</i> , 1991, 8, 111-116.	0.4	47

#	ARTICLE	IF	CITATIONS
55	Spatial organization of thalamocortical and corticothalamic projection systems in the rat Sml barrel cortex. <i>Journal of Comparative Neurology</i> , 1989, 285, 325-338.	0.9	240
56	Membrane potential changes in rat Sml cortical neurons evoked by controlled stimulation of mystacial vibrissae. <i>Brain Research</i> , 1988, 448, 186-191.	1.1	93
57	A reliable technique for marking the location of extracellular recording sites using glass micropipettes. <i>Neuroscience Letters</i> , 1987, 81, 100-104.	1.0	34
58	Thalamic and corticocortical connections of the second somatic sensory area of the mouse. <i>Journal of Comparative Neurology</i> , 1987, 265, 409-427.	0.9	138
59	Early experience of tactile stimulation influences organization of somatic sensory cortex. <i>Nature</i> , 1987, 326, 694-697.	13.7	293
60	Somatotopic Organization of the Second Somatosensory Area (SII) in the Cerebral Cortex of the Mouse. <i>Somatosensory & Motor Research</i> , 1986, 3, 213-237.	2.2	106
61	Cytochrome oxidase staining in the rat sml barrel cortex. <i>Journal of Comparative Neurology</i> , 1985, 238, 225-235.	0.9	199
62	Functional Organization of Mouse and Rat Sml Barrel Cortex following Vibrissal Damage on Different Postnatal Days. <i>Somatosensory & Motor Research</i> , 1984, 1, 207-245.	2.2	84
63	Morphology of Golgi-Cox-impregnated barrel neurons in rat Sml cortex. <i>Journal of Comparative Neurology</i> , 1984, 230, 119-132.	0.9	168
64	Multi-whisker stimulation and its effects on vibrissa units in rat Sml barrel cortex. <i>Brain Research</i> , 1983, 276, 178-182.	1.1	156
65	Somatosensory Development. , 1981, , 259-292.		24
66	Functional organization in mouse barrel cortex. <i>Brain Research</i> , 1979, 165, 327-332.	1.1	157