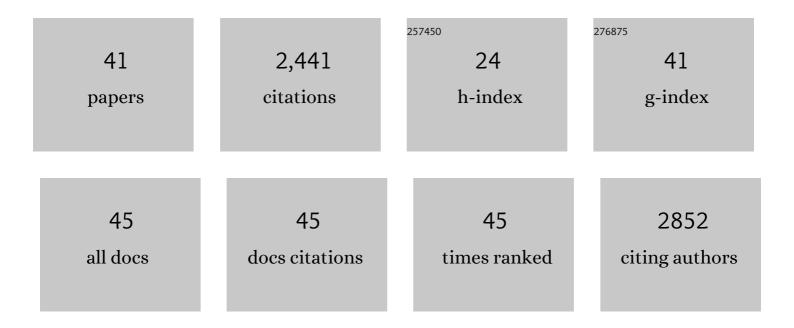
Robert N S Sachdev

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5567179/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Motor Cortex Feedback Influences Sensory Processing by Modulating Network State. Neuron, 2013, 79, 567-578.	8.1	238
2	Chronic Cellular Imaging of Entire Cortical Columns in Awake Mice Using Microprisms. Neuron, 2013, 80, 900-913.	8.1	195
3	State Changes Rapidly Modulate Cortical Neuronal Responsiveness. Journal of Neuroscience, 2007, 27, 9607-9622.	3.6	189
4	Effect of Subthreshold Up and Down States on the Whisker-Evoked Response in Somatosensory Cortex. Journal of Neurophysiology, 2004, 92, 3511-3521.	1.8	159
5	Adaptive Filtering of Vibrissa Input in Motor Cortex of Rat. Neuron, 2002, 34, 1021-1034.	8.1	119
6	Improved methods for marking active neuron populations. Nature Communications, 2018, 9, 4440.	12.8	110
7	Neocortical Networks Entrain Neuronal Circuits in Cerebellar Cortex. Journal of Neuroscience, 2009, 29, 10309-10320.	3.6	108
8	Decreased Subcortical Cholinergic Arousal in Focal Seizures. Neuron, 2015, 85, 561-572.	8.1	99
9	Role of the Basal Forebrain Cholinergic Projection in Somatosensory Cortical Plasticity. Journal of Neurophysiology, 1998, 79, 3216-3228.	1.8	92
10	Dynamic Correlation between Whisking and Breathing Rhythms in Mice. Journal of Neuroscience, 2012, 32, 1653-1659.	3.6	88
11	Divergent Movement of Adjacent Whiskers. Journal of Neurophysiology, 2002, 87, 1440-1448.	1.8	84
12	Respiration Drives Network Activity and Modulates Synaptic and Circuit Processing of Lateral Inhibition in the Olfactory Bulb. Journal of Neuroscience, 2012, 32, 85-98.	3.6	80
13	A Perspective on Cortical Layering and Layer-Spanning Neuronal Elements. Frontiers in Neuroanatomy, 2018, 12, 56.	1.7	67
14	Unilateral vibrissa contact: changes in amplitude but not timing of rhythmic whisking. Somatosensory & Motor Research, 2003, 20, 163-169.	0.9	63
15	Surround suppression and sparse coding in visual and barrel cortices. Frontiers in Neural Circuits, 2012, 6, 43.	2.8	61
16	Layer 6b Is Driven by Intracortical Long-Range Projection Neurons. Cell Reports, 2020, 30, 3492-3505.e5.	6.4	55
17	Temporal organization of multi-whisker contact in rats. Somatosensory & Motor Research, 2001, 18, 91-100.	0.9	54
18	Delta rhythm in wakefulness: evidence from intracranial recordings in human beings. Journal of Neurophysiology, 2015, 114, 1248-1254.	1.8	46

Robert N S Sachdev

#	Article	IF	CITATIONS
19	Allâ€optical functional synaptic connectivity mapping in acute brain slices using the calcium integrator CaMPARI. Journal of Physiology, 2017, 595, 1465-1477.	2.9	42
20	Pixying Behavior: A Versatile Real-Time and Post Hoc Automated Optical Tracking Method for Freely Moving and Head Fixed Animals. ENeuro, 2017, 4, ENEURO.0245-16.2017.	1.9	42
21	Experimental model for functional magnetic resonance imaging of somatic sensory cortex in the unanesthetized rat. Neurolmage, 2003, 19, 742-750.	4.2	35
22	Direct Inhibition Evoked by Whisker Stimulation in Somatic Sensory (SI) Barrel Field Cortex of the Awake Rat. Journal of Neurophysiology, 2000, 84, 1497-1504.	1.8	32
23	Activity-Dependent Plasticity in Adult Somatic Sensory Cortex. Seminars in Neuroscience, 1997, 9, 47-58.	2.2	31
24	Stimulus Frequency Processing in Awake Rat Barrel Cortex. Journal of Neuroscience, 2006, 26, 12198-12205.	3.6	29
25	Effect of temperature and glia in brain size enlargement and origin of allometric body-brain size scaling in vertebrates. BMC Evolutionary Biology, 2014, 14, 178.	3.2	27
26	Cortical barrel field ablation and unconditioned whisking kinematics. Somatosensory & Motor Research, 2001, 18, 223-227.	0.9	25
27	Whisking Asymmetry Signals Motor Preparation and the Behavioral State of Mice. Journal of Neuroscience, 2019, 39, 9818-9830.	3.6	25
28	Thalamic input to motor cortex facilitates goal-directed action initiation. Current Biology, 2021, 31, 4148-4155.e4.	3.9	23
29	Receptive Fields and Response Properties of Neurons in the Star-Nosed Mole's Somatosensory Fovea. Journal of Neurophysiology, 2002, 87, 2602-2611.	1.8	22
30	Enhancement of Cortical Plasticity by Behavioral Training in Acetylcholine-Depleted Adult Rats. Journal of Neurophysiology, 2000, 84, 1971-1981.	1.8	21
31	Air-Track: a real-world floating environment for active sensing in head-fixed mice. Journal of Neurophysiology, 2016, 116, 1542-1553.	1.8	21
32	Effects of Sexual Experience and Puberty on Mouse Genital Cortex revealed by Chronic Imaging. Current Biology, 2019, 29, 3588-3599.e4.	3.9	21
33	Optically Induced Calcium-Dependent Gene Activation and Labeling of Active Neurons Using CaMPARI and Cal-Light. Frontiers in Synaptic Neuroscience, 2019, 11, 16.	2.5	21
34	Fast, Flexible Closed-Loop Feedback: Tracking Movement in "Real-Millisecond-Time― ENeuro, 2019, 6, ENEURO.0147-19.2019.	1.9	20
35	Up and Down States and Memory Consolidation Across Somatosensory, Entorhinal, and Hippocampal Cortices. Frontiers in Systems Neuroscience, 2020, 14, 22.	2.5	19
36	Real-Time Closed-Loop Feedback in Behavioral Time Scales Using DeepLabCut. ENeuro, 2021, 8, ENEURO.0415-20.2021.	1.9	18

3

ROBERT N S SACHDEV

#	Article	IF	CITATIONS
37	Effects of excitotoxic striatal lesions on single unit activity in globus pallidus and entopeduncular nucleus of the cat. Brain Research, 1989, 501, 295-306.	2.2	17
38	Bursting properties of units in cat globus pallidus and entopeduncular nucleus: the effect of excitotoxic striatal lesions. Brain Research, 1991, 549, 194-204.	2.2	13
39	Effects of stimulus duration on neuronal response properties in the somatosensory cortex of the star-nosed mole. Somatosensory & Motor Research, 2002, 19, 272-278.	0.9	9
40	Perspective on the Multiple Pathways to Changing Brain States. Frontiers in Systems Neuroscience, 2020, 14, 23.	2.5	9
41	Effect of high velocity, large amplitude stimuli on the spread of depolarization in S1 "barrel―cortex. Somatosensory & Motor Research, 2011, 28, 73-85.	0.9	4