Tansu Celikel

List of Publications by Year
in descending order

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41	2,113	411340	371746
papers	citations	20 h-index	37 g-index

59	59	59	2955
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical detection of adrenaline and hydrogen peroxide on carbon nanotubes. Surface Innovations, 2022, 10, 379-386.	1.4	5
2	Cortical Representation of Touch in Silico. Neuroinformatics, 2022, 20, 1013-1039.	1.5	4
3	Neuromorphic computing hardware and neural architectures for robotics. Science Robotics, 2022, 7, .	9.9	36
4	Electrochemical Detection of Adrenaline on Pyrolytic Electrode Coated with Carbon Nanotubes. , 2021, , .		0
5	Assessing the utility of Magneto to control neuronal excitability in the somatosensory cortex. Nature Neuroscience, 2020, 23, 1044-1046.	7.1	27
6	Real-time contextual feedback for close-loop control of navigation. Journal of Neural Engineering, 2019, 16, 065001.	1.8	5
7	Prominent Inhibitory Projections Guide Sensorimotor Computation: An Invertebrate Perspective. BioEssays, 2019, 41, e1900088.	1.2	11
8	Spectral Weighting Underlies Perceived Sound Elevation. Scientific Reports, 2019, 9, 1642.	1.6	15
9	Neocortical Microdissection at Columnar and Laminar Resolution for Molecular Interrogation. Current Protocols in Neuroscience, 2019, 86, e55.	2.6	10
10	Cellular diversity of the somatosensory cortical map plasticity. Neuroscience and Biobehavioral Reviews, 2018, 84, 100-115.	2.9	24
11	An open-source high-speed infrared videography database to study the principles of active sensing in freely navigating rodents. GigaScience, 2018, 7, .	3.3	22
12	A databank for intracellular electrophysiological mapping of the adult somatosensory cortex. GigaScience, 2018, 7, .	3.3	13
13	Neural coding: A single neuronâ€™s perspective. Neuroscience and Biobehavioral Reviews, 2018, 94, 238-247.	2.9	47
14	Evidence Integration in Natural Acoustic Textures during Active and Passive Listening. ENeuro, 2018, 5, ENEURO.0090-18.2018.	0.9	6
15	Transcriptional mapping of the primary somatosensory cortex upon sensory deprivation. GigaScience, 2017, 6, 1-6.	3.3	11
16	Proteomic landscape of the primary somatosensory cortex upon sensory deprivation. GigaScience, 2017, 6, 1-10.	3.3	10
17	High-precision spatial localization of mouse vocalizations during social interaction. Scientific Reports, 2017, 7, 3017.	1.6	53
18	Reduced Inhibition within Layer IV of Sert Knockout Rat Barrel Cortex is Associated with Faster Sensory Integration. Cerebral Cortex, 2017, 27, 933-949.	1.6	33

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19	Determinants of the mouse ultrasonic vocal structure and repertoire. Neuroscience and Biobehavioral Reviews, 2016, 65, 313-325.	2.9	62
20	Somatosensory map expansion and altered processing of tactile inputs in a mouse model of fragile X syndrome. Neurobiology of Disease, 2016, 96, 201-215.	2.1	46
21	Hippocampal GluA1 expression in Gria1 â^'/â^' mice only partially restores spatial memory performance deficits. Neurobiology of Learning and Memory, 2016, 135, 83-90.	1.0	27
22	Adaptive Spike Threshold Enables Robust and Temporally Precise Neuronal Encoding. PLoS Computational Biology, 2016, 12, e1004984.	1.5	41
23	A Developmental Switch for Hebbian Plasticity. PLoS Computational Biology, 2015, 11, e1004386.	1.5	12
24	The role of Î±-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors in depression: Central mediators of pathophysiology and antidepressant activity?. Neuroscience and Biobehavioral Reviews, 2015, 52, 193-206.	2.9	77
25	Tactile object localization by anticipatory whisker motion. Journal of Neurophysiology, 2015, 113, 620-632.	0.9	72
26	Impact of Monoaminergic Neuromodulators on the Development of Sensorimotor Circuits. , 2015, , 243-273.		7
27	GluA1 and its PDZ-interaction: A role in experience-dependent behavioral plasticity in the forced swim test. Neurobiology of Disease, 2013, 52, 160-167.	2.1	19
28	Neuromorphic network implementation of the somatosensory cortex. , 2013, , .		3
29	Circuit mechanisms of GluA1-dependent spatial working memory. Hippocampus, 2013, 23, 1359-1366.	0.9	25
30	Loss of Dickkopf-1 Restores Neurogenesis in Old Age and Counteracts Cognitive Decline. Cell Stem Cell, 2013, 12, 204-214.	5.2	260
31	Spontaneous oscillations in intrinsic signals reveal the structure of cerebral vasculature. Journal of Neurophysiology, 2013, 109, 3094-3104.	0.9	14
32	Mapping Functional Brain Activation Using [14C]-Iodoantipyrine in Male Serotonin Transporter Knockout Mice. PLoS ONE, 2011, 6, e23869.	1.1	35
33	The Death Receptor CD95 Activates Adult Neural Stem Cells for Working Memory Formation and Brain Repair. Cell Stem Cell, 2009, 5, 178-190.	5.2	120
34	Ongoing in Vivo Experience Triggers Synaptic Metaplasticity in the Neocortex. Science, 2008, 319, 101-104.	6.0	146
35	Unsupervised Whisker Tracking in Unrestrained Behaving Animals. Journal of Neurophysiology, 2008, 100, 504-515.	0.9	93
36	Sensory integration across space and in time for decision making in the somatosensory system of rodents. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1395-1400.	3.3	83

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37	Select overexpression of homer1a in dorsal hippocampus impairs spatial working memory. Frontiers in Neuroscience, 2007, 1, 97-110.	1.4	65
38	Forebrain-Specific Glutamate Receptor B Deletion Impairs Spatial Memory But Not Hippocampal Field Long-Term Potentiation. Journal of Neuroscience, 2006, 26, 8428-8440.	1.7	69
39	Inhibitory Sharpening of Receptive Fields Contributes to Whisker Map Plasticity in Rat Somatosensory Cortex. Journal of Neurophysiology, 2005, 94, 4387-4400.	0.9	81
40	Modulation of spike timing by sensory deprivation during induction of cortical map plasticity. Nature Neuroscience, 2004, 7, 534-541.	7.1	169
41	Long-term depression induced by sensory deprivation during cortical map plasticity in vivo. Nature Neuroscience, 2003, 6, 291-299.	7.1	227