

Tansu Celikel

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,113
citations

361413

20
h-index

330143

37
g-index

59
all docs

59
docs citations

59
times ranked

2632
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of Dickkopf-1 Restores Neurogenesis in Old Age and Counteracts Cognitive Decline. <i>Cell Stem Cell</i> , 2013, 12, 204-214.	11.1	260
2	Long-term depression induced by sensory deprivation during cortical map plasticity in vivo. <i>Nature Neuroscience</i> , 2003, 6, 291-299.	14.8	227
3	Modulation of spike timing by sensory deprivation during induction of cortical map plasticity. <i>Nature Neuroscience</i> , 2004, 7, 534-541.	14.8	169
4	Ongoing in Vivo Experience Triggers Synaptic Metaplasticity in the Neocortex. <i>Science</i> , 2008, 319, 101-104.	12.6	146
5	The Death Receptor CD95 Activates Adult Neural Stem Cells for Working Memory Formation and Brain Repair. <i>Cell Stem Cell</i> , 2009, 5, 178-190.	11.1	120
6	Unsupervised Whisker Tracking in Unrestrained Behaving Animals. <i>Journal of Neurophysiology</i> , 2008, 100, 504-515.	1.8	93
7	Sensory integration across space and in time for decision making in the somatosensory system of rodents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1395-1400.	7.1	83
8	Inhibitory Sharpening of Receptive Fields Contributes to Whisker Map Plasticity in Rat Somatosensory Cortex. <i>Journal of Neurophysiology</i> , 2005, 94, 4387-4400.	1.8	81
9	The role of $\hat{\pm}$ -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors in depression: Central mediators of pathophysiology and antidepressant activity?. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 52, 193-206.	6.1	77
10	Tactile object localization by anticipatory whisker motion. <i>Journal of Neurophysiology</i> , 2015, 113, 620-632.	1.8	72
11	Forebrain-Specific Glutamate Receptor B Deletion Impairs Spatial Memory But Not Hippocampal Field Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2006, 26, 8428-8440.	3.6	69
12	Select overexpression of homer1a in dorsal hippocampus impairs spatial working memory. <i>Frontiers in Neuroscience</i> , 2007, 1, 97-110.	2.8	65
13	Determinants of the mouse ultrasonic vocal structure and repertoire. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 65, 313-325.	6.1	62
14	High-precision spatial localization of mouse vocalizations during social interaction. <i>Scientific Reports</i> , 2017, 7, 3017.	3.3	53
15	Neural coding: A single neuron's perspective. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 94, 238-247.	6.1	47
16	Somatosensory map expansion and altered processing of tactile inputs in a mouse model of fragile X syndrome. <i>Neurobiology of Disease</i> , 2016, 96, 201-215.	4.4	46
17	Adaptive Spike Threshold Enables Robust and Temporally Precise Neuronal Encoding. <i>PLoS Computational Biology</i> , 2016, 12, e1004984.	3.2	41
18	Neuromorphic computing hardware and neural architectures for robotics. <i>Science Robotics</i> , 2022, 7, .	17.6	36

#	ARTICLE	IF	CITATIONS
19	Mapping Functional Brain Activation Using [14C]-Iodoantipyrine in Male Serotonin Transporter Knockout Mice. PLoS ONE, 2011, 6, e23869.	2.5	35
20	Reduced Inhibition within Layer IV of Sert Knockout Rat Barrel Cortex is Associated with Faster Sensory Integration. Cerebral Cortex, 2017, 27, 933-949.	2.9	33
21	Hippocampal GluA1 expression in Gria1 ^{-/-} mice only partially restores spatial memory performance deficits. Neurobiology of Learning and Memory, 2016, 135, 83-90.	1.9	27
22	Assessing the utility of Magneto to control neuronal excitability in the somatosensory cortex. Nature Neuroscience, 2020, 23, 1044-1046.	14.8	27
23	Circuit mechanisms of GluA1-dependent spatial working memory. Hippocampus, 2013, 23, 1359-1366.	1.9	25
24	Cellular diversity of the somatosensory cortical map plasticity. Neuroscience and Biobehavioral Reviews, 2018, 84, 100-115.	6.1	24
25	An open-source high-speed infrared videography database to study the principles of active sensing in freely navigating rodents. GigaScience, 2018, 7, .	6.4	22
26	GluA1 and its PDZ-interaction: A role in experience-dependent behavioral plasticity in the forced swim test. Neurobiology of Disease, 2013, 52, 160-167.	4.4	19
27	Spectral Weighting Underlies Perceived Sound Elevation. Scientific Reports, 2019, 9, 1642.	3.3	15
28	Spontaneous oscillations in intrinsic signals reveal the structure of cerebral vasculature. Journal of Neurophysiology, 2013, 109, 3094-3104.	1.8	14
29	A databank for intracellular electrophysiological mapping of the adult somatosensory cortex. GigaScience, 2018, 7, .	6.4	13
30	A Developmental Switch for Hebbian Plasticity. PLoS Computational Biology, 2015, 11, e1004386.	3.2	12
31	Transcriptional mapping of the primary somatosensory cortex upon sensory deprivation. GigaScience, 2017, 6, 1-6.	6.4	11
32	Prominent Inhibitory Projections Guide Sensorimotor Computation: An Invertebrate Perspective. BioEssays, 2019, 41, e1900088.	2.5	11
33	Proteomic landscape of the primary somatosensory cortex upon sensory deprivation. GigaScience, 2017, 6, 1-10.	6.4	10
34	Neocortical Microdissection at Columnar and Laminar Resolution for Molecular Interrogation. Current Protocols in Neuroscience, 2019, 86, e55.	2.6	10
35	Impact of Monoaminergic Neuromodulators on the Development of Sensorimotor Circuits. , 2015, , 243-273.		7
36	Evidence Integration in Natural Acoustic Textures during Active and Passive Listening. ENeuro, 2018, 5, ENEURO.0090-18.2018.	1.9	6

#	ARTICLE	IF	CITATIONS
37	Real-time contextual feedback for close-loop control of navigation. Journal of Neural Engineering, 2019, 16, 065001.	3.5	5
38	Electrochemical detection of adrenaline and hydrogen peroxide on carbon nanotubes. Surface Innovations, 2022, 10, 379-386.	2.3	5
39	Cortical Representation of Touch in Silico. Neuroinformatics, 2022, 20, 1013-1039.	2.8	4
40	Neuromorphic network implementation of the somatosensory cortex. , 2013, , .		3
41	Electrochemical Detection of Adrenaline on Pyrolytic Electrode Coated with Carbon Nanotubes. , 2021, , .		0