

Reha S Erzurumlu

List of Publications by Year in descending order

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56
papers

3,416
citations

236925

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all docs

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docs citations

57
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	Layers 3 and 4 Neurons of the Bilateral Whisker-Barrel Cortex. <i>Neuroscience</i> , 2022, 494, 140-151.	2.3	3
2	Wireless Optogenetic Modulation of Cortical Neurons Enabled by Radioluminescent Nanoparticles. <i>ACS Nano</i> , 2021, 15, 5201-5208.	14.6	31
3	How the Barrel Cortex Became a Working Model for Developmental Plasticity: A Historical Perspective. <i>Journal of Neuroscience</i> , 2020, 40, 6460-6473.	3.6	26
4	In vivo voltage-sensitive dye imaging of mouse cortical activity with mesoscopic optical tomography. <i>Neurophotonics</i> , 2020, 7, 041402.	3.3	3
5	Altered Forebrain Functional Connectivity and Neurotransmission in a Kinase-Inactive <i>Met</i> Mouse Model of Autism. <i>Molecular Imaging</i> , 2019, 18, 153601211882103.	1.4	5
6	Nanoparticle-Based Fluoroionophore for Analysis of Potassium Ion Dynamics in 3D Tissue Models and In Vivo. <i>Advanced Functional Materials</i> , 2018, 28, 1704598.	14.9	33
7	Organization of Orientation-Specific Whisker Deflection Responses in Layer 2/3 of Mouse Somatosensory Cortex. <i>Neuroscience</i> , 2018, 368, 46-56.	2.3	23
8	Insulin receptor sensitization restores neocortical excitation/inhibition balance in a mouse model of autism. <i>Molecular Autism</i> , 2018, 9, 13.	4.9	13
9	Development of tactile sensory circuits in the CNS. <i>Current Opinion in Neurobiology</i> , 2018, 53, 66-75.	4.2	28
10	Planar implantable sensor for in vivo measurement of cellular oxygen metabolism in brain tissue. <i>Journal of Neuroscience Methods</i> , 2017, 281, 1-6.	2.5	8
11	Quantum Dot-Peptide-Fullerene Bioconjugates for Visualization of <i>in Vitro</i> and <i>in Vivo</i> Cellular Membrane Potential. <i>ACS Nano</i> , 2017, 11, 5598-5613.	14.6	68
12	Structural and functional differences in the barrel cortex of <i>Mecp2</i> null mice. <i>Journal of Comparative Neurology</i> , 2017, 525, 3951-3961.	1.6	21
13	Behavioral Consequences of a Bifacial Map in the Mouse Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 7209-7218.	3.6	14
14	A mutant with bilateral whisker to barrel inputs unveils somatosensory mapping rules in the cerebral cortex. <i>ELife</i> , 2017, 6, .	6.0	24
15	Sensory Activity-Dependent and Sensory Activity-Independent Properties of the Developing Rodent Trigeminal Principal Nucleus. <i>Developmental Neuroscience</i> , 2016, 38, 163-170.	2.0	1
16	In Vivo Mesoscopic Voltage-Sensitive Dye Imaging of Brain Activation. <i>Scientific Reports</i> , 2016, 6, 25269.	3.3	19
17	Review of mesoscopic optical tomography for depth-resolved imaging of hemodynamic changes and neural activities. <i>Neurophotonics</i> , 2016, 4, 011009.	3.3	18
18	Insulin-Independent GABA _A Receptor-Mediated Response in the Barrel Cortex of Mice with Impaired Met Activity. <i>Journal of Neuroscience</i> , 2016, 36, 3691-3697.	3.6	13

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19	Enhancement of postsynaptic GABA _A and extrasynaptic NMDA receptor-mediated responses in the barrel cortex of <i>Mecp2</i> -null mice. <i>Journal of Neurophysiology</i> , 2016, 115, 1298-1306.	1.8	22
20	CNS consequences of perinatal peripheral injuries. <i>Experimental Neurology</i> , 2016, 275, 243-244.	4.1	0
21	Neonatal sensory nerve injury-induced synaptic plasticity in the trigeminal principal sensory nucleus. <i>Experimental Neurology</i> , 2016, 275, 245-252.	4.1	6
22	In Vivo Voltage-Sensitive Dye Imaging of Subcortical Brain Function. <i>Scientific Reports</i> , 2015, 5, 17325.	3.3	25
23	In vivo mesoscopic voltage-sensitive dye imaging of brain activation. , 2015, , .		0
24	Role of whiskers in sensorimotor development of C57BL/6 mice. <i>Behavioural Brain Research</i> , 2015, 287, 146-155.	2.2	66
25	Thalamic NMDA Receptor Function Is Necessary for Patterning of the Thalamocortical Somatosensory Map and for Sensorimotor Behaviors. <i>Journal of Neuroscience</i> , 2014, 34, 12001-12014.	3.6	43
26	Region-Specific Disruption of Adenylate Cyclase Type 1 Gene Differentially Affects Somatosensorimotor Behaviors in Mice. <i>ENeuro</i> , 2014, 1, ENEURO.0007-14.2014.	1.9	13
27	Region-Specific Disruption of Adenylate Cyclase Type 1 Gene Differentially Affects Somatosensorimotor Behaviors in Mice. <i>ENeuro</i> , 2014, 1, .	1.9	2
28	Neurovascular coupling: in vivo optical techniques for functional brain imaging. <i>BioMedical Engineering OnLine</i> , 2013, 12, 38.	2.7	95
29	Development of the principal nucleus trigeminal lemniscal projections in the mouse. <i>Journal of Comparative Neurology</i> , 2013, 521, 299-311.	1.6	18
30	Cooperative slit and netrin signaling in contralateralization of the mouse trigeminothalamic pathway. <i>Journal of Comparative Neurology</i> , 2013, 521, 312-325.	1.6	6
31	In vivo imaging of brain metabolism activity using a phosphorescent oxygen-sensitive probe. <i>Journal of Neuroscience Methods</i> , 2013, 216, 146-151.	2.5	40
32	Functional significance of cortical NMDA receptors in somatosensory information processing. <i>Journal of Neurophysiology</i> , 2013, 110, 2627-2636.	1.8	21
33	Neurotransmitter Release at the Thalamocortical Synapse Instructs Barrel Formation But Not Axon Patterning in the Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2012, 32, 6183-6196.	3.6	79
34	Development and critical period plasticity of the barrel cortex. <i>European Journal of Neuroscience</i> , 2012, 35, 1540-1553.	2.6	275
35	Astrocytes promote peripheral nerve injury-induced reactive synaptogenesis in the neonatal CNS. <i>Journal of Neurophysiology</i> , 2011, 106, 2876-2887.	1.8	32
36	Mapping the face in the somatosensory brainstem. <i>Nature Reviews Neuroscience</i> , 2010, 11, 252-263.	10.2	180

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37	Critical period for the whisker-barrel system. <i>Experimental Neurology</i> , 2010, 222, 10-12.	4.1	15
38	Cortical Adenylyl Cyclase 1 Is Required for Thalamocortical Synapse Maturation and Aspects of Layer IV Barrel Development. <i>Journal of Neuroscience</i> , 2008, 28, 5931-5943.	3.6	67
39	Molecular determinants of the face map development in the trigeminal brainstem. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 121-134.	2.0	35
40	Exuberant thalamocortical axon arborization in cortex-specific NMDAR1 knockout mice. <i>Journal of Comparative Neurology</i> , 2005, 485, 280-292.	1.6	98
41	Somatosensory cortical plasticity: recruiting silenced barrels by active whiskers. <i>Experimental Neurology</i> , 2003, 184, 565-569.	4.1	3
42	NMDA Receptor-Dependent Pattern Transfer from Afferents to Postsynaptic Cells and Dendritic Differentiation in the Barrel Cortex. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 477-492.	2.2	112
43	Slit2, a Branching Arborization Factor for Sensory Axons in the Mammalian CNS. <i>Journal of Neuroscience</i> , 2002, 22, 4540-4549.	3.6	84
44	Lesion-Induced Thalamocortical Axonal Plasticity in the S1 Cortex Is Independent of NMDA Receptor Function in Excitatory Cortical Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 9171-9175.	3.6	48
45	Regulation of neurotrophin-induced axonal responses via Rho GTPases. <i>Journal of Comparative Neurology</i> , 2001, 438, 377-387.	1.6	39
46	Differential effects of NGF and NT-3 on embryonic trigeminal axon growth patterns. <i>Journal of Comparative Neurology</i> , 2000, 425, 202-218.	1.6	51
47	Cortex-restricted disruption of NMDAR1 impairs neuronal patterns in the barrel cortex. <i>Nature</i> , 2000, 406, 726-731.	27.8	474
48	Directional specificity and patterning of sensory axons in trigeminal ganglion whisker pad cocultures. <i>Developmental Brain Research</i> , 2000, 119, 277-281.	1.7	3
49	NMDA Receptor-Dependent Refinement of Somatotopic Maps. <i>Neuron</i> , 1997, 19, 1201-1210.	8.1	182
50	Whisker-related neuronal patterns fail to develop in the trigeminal brainstem nuclei of NMDAR1 knockout mice. <i>Cell</i> , 1994, 76, 427-437.	28.9	461
51	Maintenance of discrete somatosensory maps in subcortical relay nuclei is dependent on an intact sensory cortex. <i>Developmental Brain Research</i> , 1988, 44, 302-308.	1.7	23
52	Development of order in the rat trigeminal system. <i>Journal of Comparative Neurology</i> , 1983, 213, 365-380.	1.6	149
53	Chapter 6 Critical and Sensitive Periods in Neurobiology. <i>Current Topics in Developmental Biology</i> , 1982, 17, 207-240.	2.2	24
54	Order in the developing rat trigeminal nerve. <i>Developmental Brain Research</i> , 1982, 3, 305-310.	1.7	23

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55	Trigeminal projections to the superior colliculus of the rat. Journal of Comparative Neurology, 1981, 201, 221-242.	1.6	146
56	Efferent connections of the brainstem trigeminal complex with the facial nucleus of the rat. Journal of Comparative Neurology, 1979, 188, 75-86.	1.6	104