

Hidehiko Koizumi

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

755
citations

1040056

9
h-index

1474206

9
g-index

13
all docs

13
docs citations

13
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	Respiratory rhythm generation during gasping depends on persistent sodium current. <i>Nature Neuroscience</i> , 2006, 9, 311-313.	14.8	184
2	Persistent Na ⁺ and K ⁺ -Dominated Leak Currents Contribute to Respiratory Rhythm Generation in the Pre-Bötzing Complex <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2008, 28, 1773-1785.	3.6	157
3	Functional Imaging, Spatial Reconstruction, and Biophysical Analysis of a Respiratory Motor Circuit Isolated <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2008, 28, 2353-2365.	3.6	107
4	Structural-Functional Properties of Identified Excitatory and Inhibitory Interneurons within Pre-Bötzing Complex Respiratory Microcircuits. <i>Journal of Neuroscience</i> , 2013, 33, 2994-3009.	3.6	88
5	Perturbations of Respiratory Rhythm and Pattern by Disrupting Synaptic Inhibition within Pre-Bötzing and Bötzing Complexes. <i>ENeuro</i> , 2016, 3, ENEURO.0011-16.2016.	1.9	79
6	Voltage-Dependent Rhythmogenic Property of Respiratory Pre-Bötzing Complex Glutamatergic, Dbx1-Derived, and Somatostatin-Expressing Neuron Populations Revealed by Graded Optogenetic Inhibition. <i>ENeuro</i> , 2016, 3, ENEURO.0081-16.2016.	1.9	49
7	Transient Receptor Potential Channels TRPM4 and TRPC3 Critically Contribute to Respiratory Motor Pattern Formation but not Rhythmogenesis in Rodent Brainstem Circuits. <i>ENeuro</i> , 2018, 5, ENEURO.0332-17.2018.	1.9	32
8	Kinetic properties of persistent Na ⁺ current orchestrate oscillatory bursting in respiratory neurons. <i>Journal of General Physiology</i> , 2018, 150, 1523-1540.	1.9	29
9	Biophysical mechanisms in the mammalian respiratory oscillator re-examined with a new data-driven computational model. <i>ELife</i> , 2019, 8, .	6.0	21
10	Predictions and experimental tests of a new biophysical model of the mammalian respiratory oscillator. <i>ELife</i> , 0, 11, .	6.0	6