

Witali L Dunin-Barkowski

List of Publications by Year in descending order

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27
papers

382
citations

1040056

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794594

19
g-index

27
all docs

27
docs citations

27
times ranked

235
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfiguration of the Pontomedullary Respiratory Network: A Computational Modeling Study With Coordinated In Vivo Experiments. <i>Journal of Neurophysiology</i> , 2008, 100, 1770-1799.	1.8	93
2	Endogenous excitatory drive to the respiratory system in rapid eye movement sleep in cats. <i>Journal of Physiology</i> , 2000, 527, 365-376.	2.9	44
3	Computer simulation of a cerebellar cortex compartment. <i>Biological Cybernetics</i> , 1985, 51, 407-415.	1.3	32
4	Hypocapnia Decreases the Amount of Rapid Eye Movement Sleep in Cats. <i>Sleep</i> , 2003, 26, 961-967.	1.1	29
5	Tonic activity in the respiratory system in wakefulness, NREM and REM sleep. <i>Sleep</i> , 2002, 25, 488-96.	1.1	28
6	Ventilatory response of the cat to hypoxia in sleep and wakefulness. <i>Journal of Applied Physiology</i> , 2003, 95, 545-554.	2.5	24
7	Hebb-Hopfield neural networks based on one-dimensional sets of neuron states. <i>Neural Processing Letters</i> , 1995, 2, 28-31.	3.2	22
8	Effect of hypercapnia on sleep and breathing in unanesthetized cats. <i>Sleep</i> , 2008, 31, 1025-33.	1.1	18
9	Respiratory pattern generator model using Ca ⁺⁺ -induced Ca ⁺⁺ release in neurons shows both pacemaker and reciprocal network properties. <i>Biological Cybernetics</i> , 2003, 89, 274-288.	1.3	16
10	Models of Innate Neural Attractors and Their Applications for Neural Information Processing. <i>Frontiers in Systems Neuroscience</i> , 2016, 9, 178.	2.5	10
11	Medullary Respiratory Neural Activity During Hypoxia in NREM and REM Sleep in the Cat. <i>Journal of Neurophysiology</i> , 2006, 95, 803-810.	1.8	9
12	Tonic Activity in the Respiratory System in Wakefulness, NREM and REM Sleep. <i>Sleep</i> , 2002, , .	1.1	8
13	A neural ensemble model of the respiratory central pattern generator: properties of the minimal model. <i>Neurocomputing</i> , 2002, 44-46, 381-389.	5.9	8
14	Phase-based storage of information in the cerebellum. <i>Neurocomputing</i> , 1999, 26-27, 677-685.	5.9	7
15	Analysis of output of all Purkinje cells controlled by one climbing fiber cell. <i>Neurocomputing</i> , 2002, 44-46, 391-400.	5.9	7
16	Effect of Hypercapnia on Sleep and Breathing in Unanesthetized Cats. <i>Sleep</i> , 2008, , .	1.1	6
17	Tonic and phasic drive to medullary respiratory neurons during periodic breathing. <i>Respiratory Physiology and Neurobiology</i> , 2012, 181, 286-301.	1.6	5
18	Title is missing!. <i>Neural Processing Letters</i> , 1999, 9, 97-106.	3.2	4

#	ARTICLE	IF	CITATIONS
19	Phase-based cerebellar learning of dynamic signals. <i>Neurocomputing</i> , 2000, 32-33, 709-725.	5.9	4
20	L-plotting – A method for visual analysis of physiological experimental and modeling multi-component data. <i>Neurocomputing</i> , 2010, 74, 328-336.	5.9	4
21	Precise rhythmicity in activity of neocortical, thalamic and brain stem neurons in behaving cats and rabbits. <i>Behavioural Brain Research</i> , 2006, 175, 27-42.	2.2	2
22	Modeling of the role of Cl^- channels in Ca^{2+} translocation through endoplasmic reticulum membrane. <i>Doklady Biochemistry and Biophysics</i> , 2006, 409, 206-210.	0.9	1
23	Editorial: Toward and Beyond Human-Level AI. <i>Frontiers in Neurorobotics</i> , 2020, 14, 617446.	2.8	1
24	The first RNNS/IEEE symposium on neuroinformatics and Neurocomputers. <i>Neurocomputing</i> , 1993, 5, 265-267.	5.9	0
25	Sleep of paradoxes. <i>Journal of Physiology</i> , 2000, 526, 2-2.	2.9	0
26	Analytical estimates of efficiency of attractor neural networks with inborn connections. <i>ITM Web of Conferences</i> , 2016, 6, 02009.	0.5	0
27	Effects of Carbon Dioxide on Breathing and Sleep. <i>FASEB Journal</i> , 2007, 21, A1295.	0.5	0