

Svetlana Postnova

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

590
citations

15
h-index

23
g-index

41
ext. papers

694
ext. citations

3.5
avg, IF

4.2
L-index

#	Paper	IF	Citations
40	A unified model of melatonin, 6-sulfatoxymelatonin, and sleep dynamics. <i>Journal of Pineal Research</i> , 2018 , 64, e12474	10.4	59
39	Neural synchronization at tonic-to-bursting transitions. <i>Journal of Biological Physics</i> , 2007 , 33, 129-43	1.6	47
38	A mathematical model of homeostatic regulation of sleep-wake cycles by hypocretin/orexin. <i>Journal of Biological Rhythms</i> , 2009 , 24, 523-35	3.2	40
37	A physiologically based model of orexinergic stabilization of sleep and wake. <i>PLoS ONE</i> , 2014 , 9, e91982	3.7	34
36	Exploring sleepiness and entrainment on permanent shift schedules in a physiologically based model. <i>Journal of Biological Rhythms</i> , 2012 , 27, 91-102	3.2	32
35	Propagation effects of current and conductance noise in a model neuron with subthreshold oscillations. <i>Mathematical Biosciences</i> , 2008 , 214, 109-21	3.9	30
34	Noise-induced precursors of tonic-to-bursting transitions in hypothalamic neurons and in a conductance-based model. <i>Chaos</i> , 2011 , 21, 047509	3.3	26
33	What works for jetlag? A systematic review of non-pharmacological interventions. <i>Sleep Medicine Reviews</i> , 2019 , 43, 47-59	10.2	25
32	Adaptation to shift work: physiologically based modeling of the effects of lighting and shifts start time. <i>PLoS ONE</i> , 2013 , 8, e53379	3.7	24
31	A computational study of the interdependencies between neuronal impulse pattern, noise effects and synchronization. <i>Journal of Physiology (Paris)</i> , 2010 , 104, 176-89		22
30	Physiological Markers of Arousal Change with Psychological Treatment for Insomnia: A Preliminary Investigation. <i>PLoS ONE</i> , 2015 , 10, e0145317	3.7	19
29	A minimal physiologically based model of the HPA axis under influence of the sleep-wake cycles. <i>Pharmacopsychiatry</i> , 2013 , 46 Suppl 1, S36-43	2	18
28	Neurons and synapses for systemic models of psychiatric disorders. <i>Pharmacopsychiatry</i> , 2010 , 43 Suppl 1, S82-91	2	18
27	Impulse pattern in bi-directionally coupled model neurons of different dynamics. <i>BioSystems</i> , 2007 , 89, 135-42	1.9	17
26	Effects of rotation interval on sleepiness and circadian dynamics on forward rotating 3-shift systems. <i>Journal of Biological Rhythms</i> , 2014 , 29, 60-70	3.2	16
25	Generalizability of A Neural Network Model for Circadian Phase Prediction in Real-World Conditions. <i>Scientific Reports</i> , 2019 , 9, 11001	4.9	15
24	Sleep Propensity under Forced Desynchrony in a Model of Arousal State Dynamics. <i>Journal of Biological Rhythms</i> , 2016 , 31, 498-508	3.2	15

23	Prediction of Cognitive Performance and Subjective Sleepiness Using a Model of Arousal Dynamics. <i>Journal of Biological Rhythms</i> , 2018 , 33, 203-218	3.2	14
22	Modeling melanopsin-mediated effects of light on circadian phase, melatonin suppression, and subjective sleepiness. <i>Journal of Pineal Research</i> , 2020 , 69, e12681	10.4	13
21	Diversity and noise effects in a model of homeostatic regulation of the sleep-wake cycle. <i>PLoS Computational Biology</i> , 2012 , 8, e1002650	5	13
20	Computational approaches for individual circadian phase prediction in field settings. <i>Current Opinion in Systems Biology</i> , 2020 , 22, 39-51	3.2	12
19	Sleep Modelling across Physiological Levels. <i>Clocks & Sleep</i> , 2019 , 1, 166-184	2.9	11
18	INTER-PATTERN TRANSITIONS IN A NOISY BURSTING CELL. <i>Fluctuation and Noise Letters</i> , 2004 , 04, L521-L533	1.5	11
17	Spiking patterns and synchronization of thalamic neurons along the sleep-wake cycle. <i>Chaos</i> , 2018 , 28, 106314	3.3	9
16	Modeling neuronal activity in relation to experimental voltage-/patch-clamp recordings. <i>Brain Research</i> , 2013 , 1536, 159-67	3.7	8
15	Real-Time Simulations of Synchronization in a Conductance-Based Neuronal Network with a Digital FPGA Hardware-Core. <i>Lecture Notes in Computer Science</i> , 2012 , 97-104	0.9	7
14	The effect of consecutive transmeridian flights on alertness, sleep-wake cycles and sleepiness: A case study. <i>Chronobiology International</i> , 2018 , 35, 1471-1480	3.6	6
13	A critical firing rate associated with tonic-to-bursting transitions in synchronized gap-junction coupled neurons. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 1939-1951	2.3	5
12	Comparison of different methods for the evaluation of treatment effects from the sleep EEG of patients with major depression. <i>Journal of Biological Physics</i> , 2008 , 34, 393-404	1.6	5
11	Conductance-Based Models for the Evaluation of Brain Functions, Disorders, and Drug Effects 2011 , 97-132		4
10	Modelling the Hypothalamic Control of Thalamic Synchronization Along the Sleep-Wake Cycles 2011 , 563-570		4
9	How do travelers manage jetlag and travel fatigue? A survey of passengers on long-haul flights. <i>Chronobiology International</i> , 2020 , 37, 1621-1628	3.6	3
8	Stochastic Resonance and Stochastic Encoding: Cooperative Effects of Noise and Intrinsic Dynamics in a Model Neuron with Subthreshold Oscillations 2011 , 571-575		2
7	Progress in modelling of brain dynamics during anaesthesia and the role of sleep-wake circuitry. <i>Biochemical Pharmacology</i> , 2021 , 191, 114388	6	2
6	Biological Rhythms in Mental Disorders 197-231		1

5	Mechanism-Based Models of Neurons and Synapses for Multi-Level Simulations of Brain Functions. <i>IEICE Proceeding Series</i> , 2014 , 1, 308-311		1
4	Forced Wakefulness for Entrainment to Permanent Shift Work: A Computational Study 2013 , 105-111		1
3	Prediction of shiftworker alertness, sleep, and circadian phase using a model of arousal dynamics constrained by shift schedules and light exposure. <i>Sleep</i> , 2021 , 44,	1.1	1
2	Desynchrony and synchronisation underpinning sleep-wake cycles. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	0
1	Introduction to Focus Issue: Nonlinear science of living systems: From cellular mechanisms to functions. <i>Chaos</i> , 2018 , 28, 106201		3-3