

Petr Marsalek

List of Publications by Year in descending order

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34
papers

471
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34
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docs citations

34
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	On the relationship between synaptic input and spike output jitter in individual neurons. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 735-740.	7.1	174
2	25th Annual Computational Neuroscience Meeting: CNS-2016. BMC Neuroscience, 2016, 17, 54.	1.9	81
3	Event-related potentials--the P3 wave. Acta Neurobiologiae Experimentalis, 2003, 63, 55-63.	0.7	47
4	Biological context of Hebb learning in artificial neural networks, a review. Neurocomputing, 2015, 152, 27-35.	5.9	42
5	Coincidence detection in the Hodgkin-Huxley equations. BioSystems, 2000, 58, 83-91.	2.0	19
6	Proposed mechanisms for coincidence detection in the auditory brainstem. Biological Cybernetics, 2005, 92, 445-451.	1.3	13
7	On the precision of neural computation with interaural level differences in the lateral superior olive. Brain Research, 2013, 1536, 16-26.	2.2	11
8	Spike encoding mechanisms in the sound localization pathway. BioSystems, 2005, 79, 191-198.	2.0	10
9	Neural code for sound localization at low frequencies. Neurocomputing, 2001, 38-40, 1443-1452.	5.9	8
10	Sound localization at high frequencies and across the frequency range. Neurocomputing, 2004, 58-60, 999-1006.	5.9	8
11	Neuronal Jitter: Can We Measure the Spike Timing Dispersion Differently?. Chinese Journal of Physiology, 2010, 53, 454-464.	1.0	8
12	Stochastic interpolation model of the medial superior olive neural circuit. Brain Research, 2012, 1434, 257-265.	2.2	7
13	Functional rate-code models of the auditory brainstem for predicting lateralization and discrimination data of human binaural perception. Journal of the Acoustical Society of America, 2019, 145, 1-15.	1.1	6
14	Investigating spike backpropagation induced Ca ²⁺ influx in models of hippocampal and cortical pyramidal neurons. BioSystems, 1998, 48, 147-156.	2.0	5
15	Pattern storage in a sparsely coded neural network with cyclic activation. BioSystems, 2007, 89, 257-263.	2.0	5
16	Highway Toll Enforcement. IEEE Vehicular Technology Magazine, 2010, 5, 56-65.	3.4	5
17	The Effect of Neural Noise on Spike Time Precision in a Detailed CA3 Neuron Model. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-16.	1.3	5
18	Stochastic Model Shows How Cochlear Implants Process Azimuth in Real Auditory Space. Chinese Journal of Physiology, 2010, 53, 439-446.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Stochastic Model Explains the Role of Excitation and Inhibition in Binaural Sound Localization in Mammals. <i>Physiological Research</i> , 2011, 60, 573-583.	0.9	4
20	Analytical description of coincidence detection synaptic mechanisms in the auditory pathway. <i>BioSystems</i> , 2015, 136, 90-98.	2.0	3
21	Short-term potentiation effect on pattern recall in sparsely coded neural network. <i>Neurocomputing</i> , 2012, 77, 108-113.	5.9	2
22	Artifact Reduction in Positioning Algorithm Using Differential HRTF. <i>AES: Journal of the Audio Engineering Society</i> , 2016, 64, 208-217.	1.0	1
23	Pathological Physiology of the Visual Pathway. , 2017, , 17-29.		1
24	A simulation approach to the two-point stochastic model of olfactory neurons. <i>General Physiology and Biophysics</i> , 1994, 13, 341-56.	0.9	1
25	Model of the regulation of <i>Drosophila</i> flight by mechanosensory feedback. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	0
26	Sound encoding in auditory pathway, implications for cochlear implants. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	0
27	Spike timing jitter is beneficial in neural spike coding - A case of the mammalian MSO sound localization circuit. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	0
28	Spike timing jitter is beneficial in neural spike coding - a case of the mammalian MSO sound localization circuit. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	0
29	Microsecond precision of interaural time differences processing in the medial superior olive studied by a computational model. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	0
30	Neural coding of monaural and binaural intensity at low stimulus frequencies. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
31	Voltage sensitive currents and information processing by single neurons. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
32	Ergodicity and parameter estimates in auditory neural circuits. <i>Biological Cybernetics</i> , 2018, 112, 41-55.	1.3	0
33	Subjective Evaluation of Three Headphone-Based Virtual Sound Source Positioning Methods Including Differential Head-Related Transfer Function. <i>Archives of Acoustics</i> , 2016, 41, 437-447.	0.8	0
34	Mechanisms of Coincidence Detection in the Auditory Brainstem: Examples. , 2008, , 245-253.		0