

Petr Marsalek

List of Publications by Year in descending order

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34
papers

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citations

1163117

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all docs

34
docs citations

34
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ergodicity and parameter estimates in auditory neural circuits. Biological Cybernetics, 2018, 112, 41-55.	1.3	0
3	Pathological Physiology of the Visual Pathway. , 2017, , 17-29.		1
4	Artifact Reduction in Positioning Algorithm Using Differential HRTF. AES: Journal of the Audio Engineering Society, 2016, 64, 208-217.	1.0	1
5	25th Annual Computational Neuroscience Meeting: CNS-2016. BMC Neuroscience, 2016, 17, 54.	1.9	81
6	Subjective Evaluation of Three Headphone-Based Virtual Sound Source Positioning Methods Including Differential Head-Related Transfer Function. Archives of Acoustics, 2016, 41, 437-447.	0.8	0
7	Neural coding of monaural and binaural intensity at low stimulus frequencies. BMC Neuroscience, 2015, 16, .	1.9	0
8	Voltage sensitive currents and information processing by single neurons. BMC Neuroscience, 2015, 16, .	1.9	0
9	Analytical description of coincidence detection synaptic mechanisms in the auditory pathway. BioSystems, 2015, 136, 90-98.	2.0	3
10	Biological context of Hebb learning in artificial neural networks, a review. Neurocomputing, 2015, 152, 27-35.	5.9	42
11	Microsecond precision of interaural time differences processing in the medial superior olive studied by a computational model. BMC Neuroscience, 2013, 14, .	1.9	0
12	On the precision of neural computation with interaural level differences in the lateral superior olive. Brain Research, 2013, 1536, 16-26.	2.2	11
13	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
14	Stochastic interpolation model of the medial superior olive neural circuit. Brain Research, 2012, 1434, 257-265.	2.2	7
15	Short-term potentiation effect on pattern recall in sparsely coded neural network. Neurocomputing, 2012, 77, 108-113.	5.9	2
16	Spike timing jitter is beneficial in neural spike coding - A case of the mammalian MSO sound localization circuit. BMC Neuroscience, 2011, 12, .	1.9	0
17	Spike timing jitter is beneficial in neural spike coding - a case of the mammalian MSO sound localization circuit. BMC Neuroscience, 2011, 12, .	1.9	0
18	Stochastic Model Explains the Role of Excitation and Inhibition in Binaural Sound Localization in Mammals. Physiological Research, 2011, 60, 573-583.	0.9	4

#	ARTICLE	IF	CITATIONS
19	Highway Toll Enforcement. IEEE Vehicular Technology Magazine, 2010, 5, 56-65.	3.4	5
20	Stochastic Model Shows How Cochlear Implants Process Azimuth in Real Auditory Space. Chinese Journal of Physiology, 2010, 53, 439-446.	1.0	5
21	Neuronal Jitter: Can We Measure the Spike Timing Dispersion Differently?. Chinese Journal of Physiology, 2010, 53, 454-464.	1.0	8
22	Sound encoding in auditory pathway, implications for cochlear implants. BMC Neuroscience, 2009, 10, .	1.9	0
23	Mechanisms of Coincidence Detection in the Auditory Brainstem: Examples. , 2008, , 245-253.		0
24	Pattern storage in a sparsely coded neural network with cyclic activation. BioSystems, 2007, 89, 257-263.	2.0	5
25	Model of the regulation of Drosophila flight by mechanosensory feedback. BMC Neuroscience, 2007, 8, .	1.9	0
26	Spike encoding mechanisms in the sound localization pathway. BioSystems, 2005, 79, 191-198.	2.0	10
27	Proposed mechanisms for coincidence detection in the auditory brainstem. Biological Cybernetics, 2005, 92, 445-451.	1.3	13
28	Sound localization at high frequencies and across the frequency range. Neurocomputing, 2004, 58-60, 999-1006.	5.9	8
29	Event-related potentials—the P3 wave. Acta Neurobiologiae Experimentalis, 2003, 63, 55-63.	0.7	47
30	Neural code for sound localization at low frequencies. Neurocomputing, 2001, 38-40, 1443-1452.	5.9	8
31	Coincidence detection in the Hodgkin–Huxley equations. BioSystems, 2000, 58, 83-91.	2.0	19
32	Investigating spike backpropagation induced Ca ²⁺ influx in models of hippocampal and cortical pyramidal neurons. BioSystems, 1998, 48, 147-156.	2.0	5
33	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
34	A simulation approach to the two-point stochastic model of olfactory neurons. General Physiology and Biophysics, 1994, 13, 341-56.	0.9	1