

Evgeniya V Pankratova

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

376
citations

933447

10
h-index

794594

19
g-index

32
all docs

32
docs citations

32
times ranked

246
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of noise in FitzHugh–Nagumo model driven by a strong periodic signal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 344, 43-50.	2.1	81
2	Resonant activation in a stochastic Hodgkin-Huxley model: Interplay between noise and suprathreshold driving effects. <i>European Physical Journal B</i> , 2005, 45, 391-397.	1.5	56
3	Neuronal synchronization enhanced by neuron–astrocyte interaction. <i>Nonlinear Dynamics</i> , 2019, 97, 647-662.	5.2	42
4	Activity-dependent switches between dynamic regimes of extracellular matrix expression. <i>PLoS ONE</i> , 2020, 15, e0227917.	2.5	22
5	Chaotic synchronization in ensembles of coupled neurons modeled by the FitzHugh-Rinzel system. <i>Radiophysics and Quantum Electronics</i> , 2006, 49, 910-921.	0.5	17
6	Suppression of switching errors in weakly damped Josephson junctions. <i>Chaos, Solitons and Fractals</i> , 2020, 136, 109817.	5.1	15
7	Role of the driving frequency in a randomly perturbed Hodgkin-Huxley neuron with suprathreshold forcing. <i>European Physical Journal B</i> , 2006, 53, 529-536.	1.5	14
8	Chaotic dynamics of two Van der Pol-Duffing oscillators with Huygens coupling. <i>Regular and Chaotic Dynamics</i> , 2010, 15, 274-284.	0.8	12
9	Environmentally induced amplitude death and firing provocation in large-scale networks of neuronal systems. <i>Regular and Chaotic Dynamics</i> , 2016, 21, 840-848.	0.8	12
10	Synchronization of self-sustained oscillators inertially coupled through common damped system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3076-3084.	2.1	11
11	Oscillations in Josephson transmission line stimulated by load in the presence of noise. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	11
12	DYNAMICS AND SYNCHRONIZATION OF NOISE PERTURBED ENSEMBLES OF PERIODICALLY ACTIVATED NEURON CELLS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 2807-2815.	1.7	10
13	Bifurcation analysis of multistability and oscillation emergence in a model of brain extracellular matrix. <i>Chaos, Solitons and Fractals</i> , 2021, 151, 111253.	5.1	10
14	Shilnikov Chaos in Oscillators with Huygens Coupling. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1440007.	1.7	8
15	Social stress drives the multi-wave dynamics of COVID-19 outbreaks. <i>Scientific Reports</i> , 2021, 11, 22497.	3.3	8
16	Consequential noise-induced synchronization of indirectly coupled self-sustained oscillators. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2509-2515.	2.6	7
17	Chemotactic drift speed for bacterial motility pattern with two alternating turning events. <i>PLoS ONE</i> , 2018, 13, e0190434.	2.5	7
18	Bistability and Chaos Emergence in Spontaneous Dynamics of Astrocytic Calcium Concentration. <i>Mathematics</i> , 2022, 10, 1337.	2.2	6

#	ARTICLE	IF	CITATIONS
19	Emergence of complicated regular and irregular spontaneous Ca^{2+} oscillations in astrocytes. , 2020, , .		5
20	SYNCHRONIZATION AND CONTROL IN ENSEMBLES OF PERIODIC AND CHAOTIC NEURONAL ELEMENTS WITH TIME DEPENDENT COUPLING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 120-125.	0.4	4
21	Calcium concentration in astrocytes: Emergence of complicated spontaneous oscillations and their cessation. Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2021, 29, 440-448.	0.2	4
22	Brain Extracellular Matrix Impact on Neuronal Firing Reliability and Spike-Timing Jitter. Studies in Computational Intelligence, 2020, , 190-196.	0.9	4
23	Chaotic Change of Extracellular Matrix Molecules Concentration in the Presence of Periodically Varying Neuronal Firing Rate. Communications in Computer and Information Science, 2021, , 117-128.	0.5	3
24	Influence of noise sources on FitzHugh-Nagumo model in suprathreshold regime (Invited Paper). , 2005, , .		2
25	Spectral linewidth of parallel Josephson junction array with intermediate-to-large damping. Physical Review B, 2017, 96, .	3.2	2
26	Quiescence-to-Oscillations Transition Features in Dynamics of Spontaneous Astrocytic Calcium Concentration. Communications in Computer and Information Science, 2021, , 129-137.	0.5	2
27	Resonant activation in single and coupled stochastic FitzHugh-Nagumo elements. , 2004, , .		1
28	ЃžЃїЃžЃ'Ѓ•ЃЃЃžЃїЃĉЃ~ ЃŸЃ•ЃЃ•ЃŸЃžЃ"Ѓ•Ѓš ЃЃ•Ѓ—Ѓ~ЃĉĉžЃ ЃŸЃžЃ•ЃЃžЃ™ ЃїЃ~ЃЃŸЃЃžЃЃ~Ѓ—ЃЃ Ѓ~Ѓ~ Ѓ' Ѓ;Ѓ•ЃĉЃ~ЃŸ ЃЃ•Ѓ•Ѓ		
29	ЃšЃЃšЃ•ЃїЃĉЃ'Ѓ•ЃЃЃžЃšЃ~ЃїЃ•Ѓ•ЃЃЃ«Ѓ™ ЃЃЃЃ•Ѓ~Ѓ— Ѓ'ЃžЃ—ЃĉĉžЃ—Ѓĉ«ЃŸ ЃЃ•Ѓ—Ѓ~ЃĉĉžЃ' ЃїЃ~ЃЃŸЃЃžЃЃžЃЃ'ЃžЃ ЃŸĉ		
30	Complicated Burst-type Oscillations of Astrocytic Spontaneous Calcium Concentration. , 2021, , .		0
31	Bistable Dynamics of the Brain Extracellular Matrix in the Presence of Periodically Varying Neuronal Activity. , 2021, , .		0