Evgeniya V Pankratova

List of Publications by Year
in descending order

31	376	933447 10	794594 19
papers	citations	h-index	g-index

32	32	32	246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bistability and Chaos Emergence in Spontaneous Dynamics of Astrocytic Calcium Concentration. Mathematics, 2022, 10, 1337.	2.2	6
2	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
3	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
4	Bifurcation analysis of multistability and oscillation emergence in a model of brain extracellular matrix. Chaos, Solitons and Fractals, 2021, 151, 111253.	5.1	10
5	Quiescence-to-Oscillations Transition Features in Dynamics of Spontaneous Astrocytic Calcium Concentration. Communications in Computer and Information Science, 2021, , 129-137.	0.5	2
6	Complicated Burst-type Oscillations of Astrocytic Spontaneous Calcium Concentration. , 2021, , .		0
7	Bistable Dynamics of the Brain Extracellular Matrix in the Presence of Periodically Varying Neuronal Activity. , 2021, , .		0
8	Social stress drives the multi-wave dynamics of COVID-19 outbreaks. Scientific Reports, 2021, 11, 22497.	3.3	8
9	Emergence of complicated regular and irregular spontaneous Ca²⁺ oscillations in astrocytes. , 2020, , .		5
10	Activity-dependent switches between dynamic regimes of extracellular matrix expression. PLoS ONE, 2020, 15, e0227917.	2.5	22
11	Suppression of switching errors in weakly damped Josephson junctions. Chaos, Solitons and Fractals, 2020, 136, 109817.	5.1	15
12	Brain Extracellular Matrix Impact on Neuronal Firing Reliability and Spike-Timing Jitter. Studies in Computational Intelligence, 2020, , 190-196.	0.9	4
13	Neuronal synchronization enhanced by neuronâ€“astrocyte interaction. Nonlinear Dynamics, 2019, 97, 647-662.	5.2	42
14	Chemotactic drift speed for bacterial motility pattern with two alternating turning events. PLoS ONE, 2018, 13, e0190434.	2.5	7
15	Oscillations in Josephson transmission line stimulated by load in the presence of noise. Applied Physics Letters, 2017, 110, .	3.3	11
16	Spectral linewidth of parallel Josephson junction array with intermediate-to-large damping. Physical Review B, 2017, 96, .	3.2	2
17	Environmentally induced amplitude death and firing provocation in large-scale networks of neuronal systems. Regular and Chaotic Dynamics, 2016, 21, 840-848.	0.8	12
18	Shilnikov Chaos in Oscillators with Huygens Coupling. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1440007.	1.7	8

#	Article	IF	Citations
19	Consequential noise-induced synchronization of indirectly coupled self-sustained oscillators. European Physical Journal: Special Topics, 2013, 222, 2509-2515.	2.6	7
20	Synchronization of self-sustained oscillators inertially coupled through common damped system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3076-3084.	2.1	11
21	ÐšÐÐ§Ð•Ð¡Ð¢Ð•ÐÐÐž-Ð§Ð˜Ð¡Ð›Ð•ÐÐ«Ð™ ÐÐÐÐ›Ð˜Ð— Ð'ÐžÐ—ÐœÐžÐ–ÐÐ«Ð¥ ÐÐ•Ð–Ð˜ÐœÐžÐ' Ð¡Ð˜ÐÐ¥ÐÐžÐÐžÐÐž“Ðž ÐŸÐ		
22	Chaotic dynamics of two Van der Pol-Duffing oscillators with Huygens coupling. Regular and Chaotic Dynamics, 2010, 15, 274-284.	0.8	12
23	DYNAMICS AND SYNCHRONIZATION OF NOISE PERTURBED ENSEMBLES OF PERIODICALLY ACTIVATED NEURON CELLS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2807-2815.	1.7	10
24	ÐžÐ¡ÐžÐ'Ð•ÐÐÐžÐ¡Ð¢Ð˜ ÐŸÐ•Ð¥ÐžÐ"Ð•Ðš ÐÐ•Ð–Ð˜ÐœÐ£ ÐŸÐžÐ›ÐÐžÐ™ Ð¡Ð˜ÐÐ¥ÐÐžÐÐ˜Ð—ÐÐ¦Ð˜Ð' Ð¡Ð˜ Ð'Ð¾Ð•Ð¢Ð˜Ð¥ ÐÐ›Ð•Ð		
25	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
26	Role of the driving frequency in a randomly perturbed Hodgkin-Huxley neuron with suprathreshold forcing. European Physical Journal B, 2006, 53, 529-536.	1.5	14
27	Chaotic synchronization in ensembles of coupled neurons modeled by the FitzHugh-Rinzel system. Radiophysics and Quantum Electronics, 2006, 49, 910-921.	0.5	17
28	Suppression of noise in FitzHughâ€“Nagumo model driven by a strong periodic signal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 344, 43-50.	2.1	81
29	Resonant activation in a stochastic Hodgkin-Huxley model: Interplay between noise and suprathreshold driving effects. European Physical Journal B, 2005, 45, 391-397.	1.5	56
30	Influence of noise sources on FitzHugh-Nagumo model in suprathreshold regime (Invited Paper). , 2005, , .		2
31	Resonant activation in single and coupled stochastic FitzHugh-Nagumo elements. , 2004, , .		1