

# Rubin R Aliev

## List of Publications by Year in descending order

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41  
papers

1,917  
citations

361413

20  
h-index

276875

41  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1602  
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple two-variable model of cardiac excitation. <i>Chaos, Solitons and Fractals</i> , 1996, 7, 293-301.	5.1	640
2	Experimental and Theoretical Analysis of Phase Singularity Dynamics in Cardiac Tissue. <i>Journal of Cardiovascular Electrophysiology</i> , 2001, 12, 716-722.	1.7	136
3	Super-spiral structures in an excitable medium. <i>Nature</i> , 1991, 353, 740-742.	27.8	118
4	Cortical spreading depression induces oxidative stress in the trigeminal nociceptive system. <i>Neuroscience</i> , 2013, 253, 341-349.	2.3	117
5	Chemical Diode. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13895-13897.	2.9	112
6	A Simple Nonlinear Model of Electrical Activity in the Intestine. <i>Journal of Theoretical Biology</i> , 2000, 204, 21-28.	1.7	87
7	Finding the optimal path with the aid of chemical wave. <i>Physica D: Nonlinear Phenomena</i> , 1997, 106, 247-254.	2.8	86
8	Three-dimensional twisted vortices in an excitable chemical medium. <i>Nature</i> , 1990, 345, 419-421.	27.8	67
9	Patchy environment as a factor of complex plankton dynamics. <i>Physical Review E</i> , 2001, 64, 021915.	2.1	47
10	Spiral waves in the homogeneous and inhomogeneous Belousov-Zhabotinskii reaction. <i>The Journal of Physical Chemistry</i> , 1992, 96, 732-736.	2.9	43
11	Numerical study on time delay for chemical wave transmission via an inactive gap. <i>Chemical Physics Letters</i> , 1997, 271, 355-360.	2.6	42
12	Hibernator <i>Citellus undulatus</i> maintains safe cardiac conduction and is protected against tachyarrhythmias during extreme hypothermia: Possible role of Cx43 and Cx45 up-regulation. <i>Heart Rhythm</i> , 2005, 2, 966-975.	0.7	41
13	Modeling of Heart Excitation Patterns caused by a Local Inhomogeneity. <i>Journal of Theoretical Biology</i> , 1996, 181, 33-40.	1.7	37
14	Disturbances of septohippocampal theta oscillations in the epileptic brain: Reasons and consequences. <i>Experimental Neurology</i> , 2013, 247, 314-327.	4.1	35
15	Electric current control of spiral wave dynamics. <i>Physica D: Nonlinear Phenomena</i> , 1992, 56, 229-234.	2.8	31
16	Attenuation of kainic acid-induced status epilepticus by inhibition of endocannabinoid transport and degradation in guinea pigs. <i>Epilepsy Research</i> , 2015, 111, 33-44.	1.6	29
17	An integral invariant for scroll rings in a reaction-diffusion system. <i>Physica D: Nonlinear Phenomena</i> , 1989, 36, 181-188.	2.8	27
18	Global Functional Connectivity Differences between Sleep-Like States in Urethane Anesthetized Rats Measured by fMRI. <i>PLoS ONE</i> , 2016, 11, e0155343.	2.5	24

#	ARTICLE	IF	CITATIONS
19	Critical conditions of chemical wave propagation in gel layers with an immobilized catalyst. <i>Physica D: Nonlinear Phenomena</i> , 1991, 50, 65-70.	2.8	21
20	Oscillation Phase Dynamics in the Belousov-Zhabotinsky Reaction. Implementation to Image Processing. <i>The Journal of Physical Chemistry</i> , 1994, 98, 3999-4002.	2.9	20
21	Dynamics of the Oscillation Phase Distribution in the BZ Reaction. <i>The Journal of Physical Chemistry</i> , 1994, 98, 9676-9681.	2.9	20
22	Endocannabinoid-dependent protection against kainic acid-induced long-term alteration of brain oscillations in guinea pigs. <i>Brain Research</i> , 2017, 1661, 1-14.	2.2	18
23	Multiple responses at the boundaries of the vulnerable window in the Belousov-Zhabotinsky reaction. <i>Physical Review E</i> , 1995, 52, 2287-2293.	2.1	12
24	Temperature as a factor affecting fluctuations and predictability of the abundance of lake bacterioplankton. <i>Ecological Complexity</i> , 2017, 32, 90-98.	2.9	12
25	Spatiotemporal Dynamics of Damped Propagation in Excitable Cardiac Tissue. <i>Physical Review Letters</i> , 2003, 91, 208104.	7.8	10
26	Study of the Effect of Acetylcholine on Intracellular Homeostasis of True Pacemaker Cells of Rabbit Sinus Node Using Computer Simulation. <i>Doklady Biochemistry and Biophysics</i> , 2005, 402, 236-239.	0.9	10
27	Bifurcation of vortices in the light-sensitive oscillatory Belousov-Zhabotinsky medium. <i>Chemical Physics Letters</i> , 1996, 257, 552-556.	2.6	9
28	Sleep-State Dependent Alterations in Brain Functional Connectivity under Urethane Anesthesia in a Rat Model of Early-Stage Parkinson's Disease. <i>ENeuro</i> , 2019, 6, ENEURO.0456-18.2019.	1.9	9
29	Heart tissue simulations by means of chemical excitable media. <i>Chaos, Solitons and Fractals</i> , 1995, 5, 567-574.	5.1	8
30	Wavelet spectra of visual evoked potentials: Time course of delta, theta, alpha and beta bands. <i>Neurocomputing</i> , 2013, 121, 551-555.	5.9	8
31	Effects of fibroblast-myocyte coupling on the sinoatrial node activity: A computational study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2966.	2.1	8
32	Change of the Shape of a Chemical Vortex Due To a Local Disturbance. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1313-1316.	2.5	6
33	Study of the Effect of Acetylcholine on the Excitability of True Pacemaker Cells of Rabbit Sinus Node Using Computer Simulation. <i>Doklady Biochemistry and Biophysics</i> , 2005, 402, 223-225.	0.9	6
34	On the Phase Dynamics in the BZ Reaction. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7691-7694.	2.5	5
35	Computer simulation of 3D electrical activity in the sinoatrial node. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2012, 26, .	0.6	4
36	Modelling of the electric field distribution in the brain during tDCS. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2016, 31, .	0.6	4

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37	Phase breaks and chaos in a chain of diffusively coupled oscillators. <i>Chaos, Solitons and Fractals</i> , 1995, 5, 439-445.	5.1	3
38	Action potential propagation and phase dynamics in the sinoatrial node. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2012, 27, .	0.6	2
39	Study of the Preautomatic Pause under Exposure to Acetylcholine in True Pacemaker Cells of Rabbit Sinus Node Using Computer Simulation. <i>Doklady Biochemistry and Biophysics</i> , 2005, 402, 251-253.	0.9	1
40	Computer simulations of reentrant activity in the rabbit sinoatrial node. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02792.	2.1	1
41	The typology of mechanisms of adaptation to the cognitive load on the variability of heart rate dynamics. <i>ĀksperimentalĒnaĀ¢ PsihologiĀ¢</i> , 2018, 11, 78-93.	0.5	1