

Sergey D Glyzin

List of Publications by Year in descending order

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114
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citing authors

#	ARTICLE	IF	CITATIONS
1	On the Existence and Stability of an Infinite-Dimensional Invariant Torus. <i>Mathematical Notes</i> , 2021, 109, 534-550.	0.1	1
2	On a class of Anosov diffeomorphisms on the infinite-dimensional torus. <i>Izvestiya Mathematics</i> , 2021, 85, 177-227.	0.1	4
3	Periodic modes of group dominance in fully coupled neural networks. <i>Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika</i> , 2021, 29, 775-798.	0.1	0
4	Features of the Algorithmic Implementation of Difference Analogs of the Delayed Logistic Equation. <i>Automatic Control and Computer Sciences</i> , 2021, 55, 723-730.	0.4	0
5	Nonclassical Relaxation Oscillations in a Mathematical Predator-Prey Model. <i>Differential Equations</i> , 2020, 56, 976-992.	0.1	0
6	Mechanism of Appearing Complex Relaxation Oscillations in a System of Two Synaptically Coupled Neurons. <i>Journal of Mathematical Sciences</i> , 2020, 249, 894-910.	0.1	0
7	Diffusion chaos and its invariant numerical characteristics. <i>Theoretical and Mathematical Physics (Russian Federation)</i> , 2020, 203, 443-456.	0.3	2
8	Solenoidal attractors of diffeomorphisms of annular sets. <i>Russian Mathematical Surveys</i> , 2020, 75, 197-252.	0.2	7
9	On Some Sufficient Hyperbolicity Conditions. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2020, 308, 107-124.	0.1	7
10	Two Delay-Coupled Neurons with a Relay Nonlinearity. <i>Studies in Computational Intelligence</i> , 2020, , 181-189.	0.7	4
11	Features of the Algorithmic Implementation of Difference Analogues of the Logistic Equation with Delay. <i>Modelirovanie i Analiz Informatsionnykh Sistem</i> , 2020, 27, 344-355.	0.1	0
12	One Class of Structurally Stable Endomorphisms on an Infinite-Dimensional Torus. <i>Differential Equations</i> , 2020, 56, 1382-1386.	0.1	4
13	Expansive Endomorphisms on the Infinite-Dimensional Torus. <i>Functional Analysis and Its Applications</i> , 2020, 54, 241-256.	0.1	3
14	Hyperbolic Attractors of Diffeomorphisms of Euclidean Space. <i>Differential Equations</i> , 2019, 55, 458-470.	0.1	1
15	Quasi-Stable Solutions of the Genetic Networks Models. <i>Journal of Physics: Conference Series</i> , 2019, 1163, 012070.	0.3	2
16	Self-excited relaxation oscillations in networks of modified FitzHugh-Nagumo oscillators. <i>Journal of Physics: Conference Series</i> , 2019, 1205, 012018.	0.3	0
17	Estimation of Lyapunov exponents for quasi-stable attractors of dynamical systems with time delay. <i>Journal of Physics: Conference Series</i> , 2019, 1163, 012045.	0.3	2
18	A self-symmetric cycle in a system of two diffusely connected Hutchinson's equations. <i>Sbornik Mathematics</i> , 2019, 210, 184-233.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Multistability and Bursting in a Pair of Delay Coupled Oscillators with a Relay Nonlinearity. IFAC-PapersOnLine, 2019, 52, 109-114.	0.5	7
20	Autowave Processes in Diffusion Neuron Systems. Computational Mathematics and Mathematical Physics, 2019, 59, 1434-1453.	0.2	0
21	Finite-Dimensional Mappings Describing the Dynamics of a Logistic Equation with Delay. Doklady Mathematics, 2019, 100, 380-384.	0.1	2
22	New Approach to Gene Network Modeling. Modelirovanie I Analiz Informacionnyh Sistem, 2019, 26, 365-404.	0.1	0
23	Invariant Characteristics of Forced Oscillations of Beams with Longitudinal Compression. Automatic Control and Computer Sciences, 2018, 52, 688-693.	0.4	0
24	Age Groups in Hutchinson Equations. Automatic Control and Computer Sciences, 2018, 52, 714-727.	0.4	1
25	Difference Approximations of a Reaction-Diffusion Equation on Segments. Automatic Control and Computer Sciences, 2018, 52, 762-776.	0.4	0
26	Spatially Inhomogeneous Periodic Solutions in a Distributed Hutchinson's Equation. Automatic Control and Computer Sciences, 2018, 52, 790-796.	0.4	0
27	Asymptotics of N-dimensional tori in the generalized Korteweg-de Vries equation. Journal of Physics: Conference Series, 2018, 955, 012022.	0.3	0
28	Complicated Dynamic Regimes in a Neural Network of Three Oscillators with a Delayed Broadcast Connection. Automatic Control and Computer Sciences, 2018, 52, 885-893.	0.4	1
29	Invariant characteristics of self-organization modes in Belousov reaction modeling. Journal of Physics: Conference Series, 2018, 955, 012024.	0.3	0
30	Stable Relaxation Cycle in a Bilocal Neuron Model. Differential Equations, 2018, 54, 1285-1309.	0.1	4
31	On a Version of the Hyperbolic Annulus Principle. Differential Equations, 2018, 54, 1000-1025.	0.1	3
32	Quasi-Stable Structures in Circular Gene Networks. Computational Mathematics and Mathematical Physics, 2018, 58, 659-679.	0.2	13
33	An Approach to Modeling Artificial Gene Networks. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT ₅ /Overlook	0.3	5
34	Invariant Characteristics of Forced Oscillations of a Beam with Longitudinal Compression. Modelirovanie I Analiz Informacionnyh Sistem, 2018, 25, 54-62.	0.1	1
35	Disordered Oscillations in a Neural Network of Three Oscillators with a Delayed Broadcast Connection. Modelirovanie I Analiz Informacionnyh Sistem, 2018, 25, 572-583.	0.1	1
36	Existence and stability of periodic solutions of quasi-linear Korteweg-de Vries equation. Journal of Physics: Conference Series, 2017, 788, 012016.	0.3	1

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37	Two-frequency self-oscillations in a FitzHugh–Nagumo neural network. Computational Mathematics and Mathematical Physics, 2017, 57, 106-121.	0.2	1
38	Hyperbolic annulus principle. Differential Equations, 2017, 53, 281-301.	0.1	3
39	Existence and stability of the relaxation cycle in a mathematical repressilator model. Mathematical Notes, 2017, 101, 71-86.	0.1	6
40	Waves interaction in the Fisher–Kolmogorov equation with arguments deviation. Lobachevskii Journal of Mathematics, 2017, 38, 24-29.	0.1	0
41	Spatially inhomogeneous modes of logistic differential equation with delay and small diffusion in a flat area. Lobachevskii Journal of Mathematics, 2017, 38, 898-905.	0.1	4
42	Many-circuit canard trajectories and their applications. Izvestiya Mathematics, 2017, 81, 771-817.	0.1	0
43	Wave propagation in the Kolmogorov–Petrovskii–Piskunov problem with delay. Doklady Mathematics, 2017, 96, 636-640.	0.1	2
44	Two-Wave Interactions in the Fermi–Pasta–Ulam Model. Automatic Control and Computer Sciences, 2017, 51, 627-633.	0.4	2
45	Relaxation Oscillations in a System of Two Pulsed Synaptically Coupled Neurons. Automatic Control and Computer Sciences, 2017, 51, 658-665.	0.4	3
46	Mathematical Model of Nicholson’s Experiment. Automatic Control and Computer Sciences, 2017, 51, 736-752.	0.4	2
47	Traveling-wave solutions in continuous chains of unidirectionally coupled oscillators. Journal of Physics: Conference Series, 2017, 937, 012015.	0.3	0
48	Mathematical Model of Nicholson’s Experiment. Modelirovanie i Analiz Informacionnyh Sistem, 2017, 24, 365-386.	0.1	2
49	Relaxation Oscillations in a System of Two Pulsed Synaptically Coupled Neurons. Modelirovanie i Analiz Informacionnyh Sistem, 2017, 24, 82-93.	0.1	1
50	Spatially inhomogeneous structures in the solution of Fisher-Kolmogorov equation with delay. Journal of Physics: Conference Series, 2016, 681, 012023.	0.3	1
51	Nonclassical relaxation oscillations in neurodynamics. Automatic Control and Computer Sciences, 2016, 50, 571-585.	0.4	1
52	Dynamic properties of the Fisher–Kolmogorov–Petrovskii–Piscounov equation with the deviation of the spatial variable. Automatic Control and Computer Sciences, 2016, 50, 603-616.	0.4	0
53	Diffusion chaos in the reaction–diffusion boundary problem in the dumbbell domain. Automatic Control and Computer Sciences, 2016, 50, 625-635.	0.4	2
54	Periodic two-cluster synchronization modes in completely connected genetic networks. Differential Equations, 2016, 52, 157-176.	0.1	3

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55	Buffering in cyclic gene networks. Theoretical and Mathematical Physics(Russian Federation), 2016, 187, 935-951.	0.3	2
56	Self-Sustained Relaxation Oscillations in Time-Delay Neural Systems. Journal of Physics: Conference Series, 2016, 727, 012004.	0.3	1
57	The annulus principle in the existence problem for a hyperbolic strange attractor. Sbornik Mathematics, 2016, 207, 490-518.	0.2	8
58	Blue sky catastrophe in systems with nonclassical relaxation oscillations. Automatic Control and Computer Sciences, 2015, 49, 525-546.	0.4	0
59	Self-excited relaxation oscillations in networks of impulse neurons. Russian Mathematical Surveys, 2015, 70, 383-452.	0.2	30
60	Blue sky catastrophe as applied to modeling of cardiac rhythms. Computational Mathematics and Mathematical Physics, 2015, 55, 1120-1137.	0.2	2
61	One mechanism of hard excitation of oscillations in nonlinear flutter systems. Automatic Control and Computer Sciences, 2014, 48, 487-495.	0.4	0
62	Dynamics of the complex spatially distributed Hutchinson equation. Automatic Control and Computer Sciences, 2014, 48, 630-632.	0.4	0
63	Buffering effect in continuous chains of unidirectionally coupled generators. Theoretical and Mathematical Physics(Russian Federation), 2014, 181, 1349-1366.	0.3	1
64	The theory of nonclassical relaxation oscillations in singularly perturbed delay systems. Sbornik Mathematics, 2014, 205, 781-842.	0.2	5
65	The buffer phenomenon in ring-like chains of unidirectionally connected generators. Izvestiya Mathematics, 2014, 78, 708-743.	0.1	17
66	Autowave processes in continual chains of unidirectionally coupled oscillators. Proceedings of the Steklov Institute of Mathematics, 2014, 285, 81-98.	0.1	3
67	Buffer phenomenon and chaos in circular chains of unidirectionally coupled oscillators. Doklady Mathematics, 2014, 90, 509-512.	0.1	0
68	On a modification of the FitzHugh-Nagumo neuron model. Computational Mathematics and Mathematical Physics, 2014, 54, 443-461.	0.2	4
69	Spatially distributed control of the dynamics of the logistic delay equation. Computational Mathematics and Mathematical Physics, 2014, 54, 963-976.	0.2	0
70	Modeling the bursting effect in neuron systems. Mathematical Notes, 2013, 93, 676-690.	0.1	13
71	Periodic traveling-wave-type solutions in circular chains of unidirectionally coupled equations. Theoretical and Mathematical Physics(Russian Federation), 2013, 175, 499-517.	0.3	18
72	On a method for mathematical modeling of chemical synapses. Differential Equations, 2013, 49, 1193-1210.	0.1	24

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73	Double-frequency oscillations of an impulse neuron equation with two delays. Automatic Control and Computer Sciences, 2013, 47, 526-540.	0.4	0
74	Spatially heterogeneous periodic solutions of the Hutchinson equation with distributed saturation. Automatic Control and Computer Sciences, 2013, 47, 549-555.	0.4	1
75	Dimensional characteristics of diffusion chaos. Automatic Control and Computer Sciences, 2013, 47, 452-469.	0.4	13
76	Relaxation self-oscillations in Hopfield networks with delay. Izvestiya Mathematics, 2013, 77, 271-312.	0.1	29
77	Relaxation self-oscillations in neuron systems: III. Differential Equations, 2012, 48, 159-175.	0.1	10
78	Discrete autowaves in neural systems. Computational Mathematics and Mathematical Physics, 2012, 52, 702-719.	0.2	16
79	Buffer phenomenon in neurodynamics. Doklady Mathematics, 2012, 85, 297-300.	0.1	5
80	Relaxation self-oscillations in neuron systems: I. Differential Equations, 2011, 47, 927-941.	0.1	23
81	Relaxation self-oscillations in neuron systems: II. Differential Equations, 2011, 47, 1697-1713.	0.1	15
82	Relaxation oscillations and diffusion chaos in the Belousov reaction. Computational Mathematics and Mathematical Physics, 2011, 51, 1307-1324.	0.2	8
83	Finite-dimensional models of diffusion chaos. Computational Mathematics and Mathematical Physics, 2010, 50, 816-830.	0.2	20
84	The question of the realizability of the Landau scenario for the development of turbulence. Theoretical and Mathematical Physics(Russian Federation), 2009, 158, 246-261.	0.3	6
85	Extremal dynamics of the generalized Hutchinson equation. Computational Mathematics and Mathematical Physics, 2009, 49, 71-83.	0.2	8
86	Blue sky catastrophe in relaxation systems with one fast and two slow variables. Differential Equations, 2008, 44, 161-175.	0.1	13
87	The buffer phenomenon in one-dimensional piecewise linear mapping in radiophysics. Mathematical Notes, 2007, 81, 449-455.	0.1	1
88	On the limit values of Melnikov functions on periodic orbits. Differential Equations, 2007, 43, 180-195.	0.1	0
89	Separation of motions in a neighborhood of a semistable cycle. Differential Equations, 2007, 43, 613-630.	0.1	3
90	Bimodal cycles of a nonlinear telegraph equation in the case of 1:2 resonance. Differential Equations, 2007, 43, 1691-1696.	0.1	0

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91	A mathematical model of the chaotic buffer phenomenon. Doklady Mathematics, 2007, 75, 157-161.	0.1	0
92	Buffer phenomenon in systems with one and a half degrees of freedom. Computational Mathematics and Mathematical Physics, 2006, 46, 1503-1514.	0.2	0
93	Chaos phenomena in a circle of three unidirectionally connected oscillators. Computational Mathematics and Mathematical Physics, 2006, 46, 1724-1736.	0.2	13
94	Chaotic buffering property in chains of coupled oscillators. Differential Equations, 2005, 41, 41-49.	0.1	7
95	The Dynamic Renormalization Method for Finding the Maximum Lyapunov Exponent of a Chaotic Attractor. Differential Equations, 2005, 41, 284-289.	0.1	23