

Tatiana E Vadivasova

List of Publications by Year in descending order

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77
papers

1,190
citations

361296

20
h-index

414303

32
g-index

77
all docs

77
docs citations

77
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	SYNCHRONIZATION OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1992, 02, 633-644.	0.7	162
2	Role of multistability in the transition to chaotic phase synchronization. Chaos, 1999, 9, 227-232.	1.0	60
3	New type of chimera structures in a ring of bistable FitzHugh-Nagumo oscillators with nonlocal interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1398-1404.	0.9	51
4	Correlation analysis of dynamical chaos. Physica A: Statistical Mechanics and Its Applications, 2003, 325, 199-212.	1.2	50
5	Correlation analysis of the coherence-incoherence transition in a ring of nonlocally coupled logistic maps. Chaos, 2016, 26, 093108.	1.0	47
6	Phase dynamics of two coupled oscillators under external periodic force. Europhysics Letters, 2009, 86, 30003.	0.7	44
7	Forced synchronization of a multilayer heterogeneous network of chaotic maps in the chimera state mode. Chaos, 2019, 29, 033134.	1.0	44
8	Studying hyperbolicity in chaotic systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 270, 301-307.	0.9	39
9	Statistical properties of dynamical chaos. Physics-Uspexhi, 2005, 48, 151-166.	0.8	37
10	Complete synchronization of chaos in systems with nonlinear inertial coupling. Chaos, Solitons and Fractals, 2021, 142, 110459.	2.5	36
11	Mechanisms of ergodic torus destruction and appearance of strange nonchaotic attractors. Physical Review E, 1996, 53, 4451-4456.	0.8	33
12	Chimera states in ensembles of bistable elements with regular and chaotic dynamics. Nonlinear Dynamics, 2017, 90, 2317-2330.	2.7	32
13	DYNAMICS OF TWO COUPLED CHUA'S CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 1677-1699.	0.7	31
14	Synchronization of Chimera States in a Network of Many Unidirectionally Coupled Layers of Discrete Maps. Regular and Chaotic Dynamics, 2018, 23, 948-960.	0.3	28
15	Loss of lag synchronization in coupled chaotic systems. Physical Review E, 1999, 60, 6560-6565.	0.8	27
16	Double-well chimeras in 2D lattice of chaotic bistable elements. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 50-61.	1.7	27
17	Synchronization in driven chaotic systems: Diagnostics and bifurcations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 253, 66-74.	0.9	24
18	Phase multistability of synchronous chaotic oscillations. Discrete Dynamics in Nature and Society, 2000, 4, 231-243.	0.5	23

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19	Phase-frequency synchronization in a chain of periodic oscillators in the presence of noise and harmonic forcings. <i>Physical Review E</i> , 2001, 63, 036225.	0.8	23
20	Strange nonchaotic attractors in autonomous and periodically driven systems. <i>Physical Review E</i> , 1996, 54, 3231-3234.	0.8	22
21	Effect of Noise on the Relaxation to an Invariant Probability Measure of Nonhyperbolic Chaotic Attractors. <i>Physical Review Letters</i> , 2001, 87, 054101.	2.9	21
22	Influence of noise on statistical properties of nonhyperbolic attractors. <i>Physical Review E</i> , 2000, 62, 7886-7893.	0.8	17
23	Analysing Dynamical Behavior of Cellular Networks via Stochastic Bifurcations. <i>PLoS ONE</i> , 2011, 6, e19696.	1.1	17
24	Stability and Noise-induced Transitions in an Ensemble of Nonlocally Coupled Chaotic Maps. <i>Regular and Chaotic Dynamics</i> , 2018, 23, 325-338.	0.3	17
25	Variety of spatio-temporal regimes in a 2D lattice of coupled bistable FitzHugh-Nagumo oscillators. Formation mechanisms of spiral and double-well chimeras. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 79, 104925.	1.7	17
26	Frequency synchronization of clusters in coupled extended systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 334, 169-172.	0.9	16
27	Hard and soft excitation of oscillations in memristor-based oscillators with a line of equilibria. <i>Nonlinear Dynamics</i> , 2017, 89, 2829-2843.	2.7	16
28	Control of inter-layer synchronization by multiplexing noise. <i>Chaos</i> , 2020, 30, 091101.	1.0	16
29	The impact of memristive coupling initial states on travelling waves in an ensemble of the FitzHugh-Nagumo oscillators. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110923.	2.5	15
30	Chimera regimes in a ring of oscillators with local nonlinear interaction. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 44, 277-283.	1.7	14
31	Stationary and non-stationary chimeras in an ensemble of chaotic self-sustained oscillators with inertial nonlinearity. <i>Nonlinear Dynamics</i> , 2017, 88, 2983-2992.	2.7	13
32	Mixing and spectral-correlation properties of chaotic and stochastic systems: numerical and physical experiments. <i>New Journal of Physics</i> , 2005, 7, 76-76.	1.2	12
33	DYNAMICS OF THE NONAUTONOMOUS CHUA'S CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1995, 05, 1525-1540.	0.7	11
34	Bifurcations of spatiotemporal structures in a medium of FitzHugh-Nagumo neurons with diffusive coupling. <i>Chaos, Solitons and Fractals</i> , 2017, 104, 153-160.	2.5	10
35	Inducing and destruction of chimeras and chimera-like states by an external harmonic force. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 690-696.	0.9	10
36	Local sensitivity of spatiotemporal structures. <i>Nonlinear Dynamics</i> , 2018, 94, 1019-1027.	2.7	9

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37	Synchronization of wave structures in a heterogeneous multiplex network of 2D lattices with attractive and repulsive intra-layer coupling. <i>Chaos</i> , 2021, 31, 021104.	1.0	9
38	Different synchronization characteristics of distinct types of traveling waves in a model of active medium with periodic boundary conditions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 38, 206-217.	1.7	8
39	Forced synchronization of an oscillator with a line of equilibria. <i>European Physical Journal: Special Topics</i> , 2020, 229, 2215-2224.	1.2	8
40	Spatiotemporal patterns in a 2D lattice with linear repulsive and nonlinear attractive coupling. <i>Chaos</i> , 2021, 31, 043136.	1.0	8
41	Diagnostics of the degree of noise influence on a nonlinear system using relative metric entropy. <i>Regular and Chaotic Dynamics</i> , 2010, 15, 261-273.	0.3	7
42	Synchronization of Periodic Self-Oscillators Interacting via Memristor-Based Coupling. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050096.	0.7	7
43	Stochastic resonance in a bistable system driven by a chaotic signal. <i>Technical Physics Letters</i> , 2006, 32, 873-875.	0.2	6
44	Reply to "Comment on "Strange nonchaotic attractors in autonomous and periodically driven systems"™. <i>Physical Review E</i> , 1997, 56, 7322-7322.	0.8	5
45	SPECTRAL-CORRELATION ANALYSIS OF COUPLED CHAOTIC SELF-SUSTAINED OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 2877-2882.	0.7	5
46	Poincaré recurrence statistics as an indicator of chaos synchronization. <i>Chaos</i> , 2014, 24, 023110.	1.0	5
47	Correlation characteristics of phase and amplitude chimeras in an ensemble of nonlocally coupled maps. <i>Technical Physics Letters</i> , 2017, 43, 118-121.	0.2	5
48	Synchronization effects for dissipative and inertial coupling between multiplex lattices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 93, 105489.	1.7	5
49	Desynchronization in coupled systems with quasiperiodic driving. <i>Physical Review E</i> , 2000, 61, 4618-4621.	0.8	4
50	Statistical properties of Poincaré recurrences and Afraimovich's Pesin dimension for the circle map. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 1050-1061.	1.7	4
51	Subcritical Andronov-Hopf scenario for systems with a line of equilibria. <i>Chaos</i> , 2021, 31, 073102.	1.0	4
52	External localized harmonic influence on an incoherence cluster of chimera states. <i>Chaos, Solitons and Fractals</i> , 2020, 133, 109642.	2.5	4
53	Evolution of complex oscillations in a quasiperiodically forced chain. <i>Physical Review E</i> , 1998, 57, 282-287.	0.8	3
54	Mechanisms of chaos onset in an inhomogeneous medium under cluster synchronization destruction. <i>New Journal of Physics</i> , 2006, 8, 84-84.	1.2	3

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55	Noise-induced transition in a small ensemble of active Brownian particles. <i>Technical Physics Letters</i> , 2014, 40, 976-979.	0.2	3
56	Synchronization in multiplex networks of chaotic oscillators with frequency mismatch. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110882.	2.5	3
57	Partial synchronization in inhomogeneous autooscillatory media. <i>Technical Physics Letters</i> , 2003, 29, 629-631.	0.2	2
58	Experimental investigation of the evolution of probability distribution in self-sustained oscillators with additive noise. <i>Technical Physics Letters</i> , 2013, 39, 632-635.	0.2	2
59	Two kinds of auto-oscillations in active medium with periodical border conditions. <i>Nelineinaya Dinamika</i> , 2012, , 497-505.	0.3	2
60	CHAOTIC DYNAMICS OF A SPATIO-INHOMOGENEOUS MEDIUM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 3661-3673.	0.7	1
61	Stochastic Oscillators. <i>Understanding Complex Systems</i> , 2013, , 539-557.	0.3	1
62	Noise-induced effects in an active medium with periodic boundary conditions. <i>Technical Physics Letters</i> , 2014, 40, 62-64.	0.2	1
63	Evolution of traveling waves in bistable medium with periodic boundary conditions. <i>Technical Physics Letters</i> , 2015, 41, 828-831.	0.2	1
64	Experimental study of the effect of parametric noise on the Andronovâ€“Hopf bifurcation in brusselator. <i>Journal of Communications Technology and Electronics</i> , 2016, 61, 1120-1128.	0.2	1
65	Effects of external global harmonic influence on chimera states. <i>Nonlinear Dynamics</i> , 2020, 102, 417-430.	2.7	1
66	SYNCHRONIZATION SELF-SUSTAINED OSCILLATORS INTERACTING THROUGH THE MEMRISTOR. <i>Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika</i> , 2018, 26, 24-40.	0.1	1
67	Irregular dynamics of a chain of circle maps with quasiperiodic excitation. <i>Technical Physics Letters</i> , 1997, 23, 284-286.	0.2	0
68	Phase multistability in quasiperiodically driven systems. <i>Technical Physics Letters</i> , 1999, 25, 906-908.	0.2	0
69	Phase multistability and mutual chaotic synchronization. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
70	Theoretical and experimental analysis of regularities of autocorrelation function decay of the Lorentz attractor. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
71	Statistical properties of the instantaneous phase of noisy periodic and chaotic self-sustained oscillations. <i>Journal of Communications Technology and Electronics</i> , 2006, 51, 545-556.	0.2	0
72	Noise-induced parametric oscillations in nonlinear oscillator. <i>Technical Physics Letters</i> , 2011, 37, 188-191.	0.2	0

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73	Traveling waves and dynamical formation of autonomous pacemakers in a bistable medium with periodic boundary conditions. , 2015, , .		0
74	Mutual synchronization of complex structures in interacting ensembles of non-locally coupled rotators. Izvestiya of Saratov University, New Series: Physics, 2021, 21, 4-20.	0.1	0
75	Chimera regimes in a ring of elements with local unidirectional interaction. Nelineinaya Dinamika, 2016, , 197-209.	0.3	0
76	Mutual Synchronization of Dissipatively Coupled Memristive Self-Oscillators. Izvestiya of Saratov University, New Series: Physics, 2020, 20, 210-221.	0.1	0
77	Synchronization of Traveling Waves in Memristively Coupled Ensembles of FitzHugh-Nagumo Neurons With Periodic Boundary Conditions. Frontiers in Physics, 0, 10, .	1.0	0