Denis S Goldobin

List of Publications by Year
in descending order

77 papers	1,141 citations	567144 15 h-index	434063 31 g-index
81 all docs	81 docs citations	81 times ranked	678 citing authors

#	Article	IF	Citations
1	Coherent oscillations in balanced neural networks driven by endogenous fluctuations. Chaos, 2022, 32, 023120.	1.0	14
2	Controlling oscillator coherence by multiple delay feedback. Mathematical Modelling of Natural Phenomena, 2021, 16, 6.	0.9	0
3	Effect of noise on the collective dynamics of a heterogeneous population of active rotators. Chaos, 2021, 31, 043101.	1.0	7
4	Four approaches for description of stochastic systems with small and finite inertia. Journal of Physics: Conference Series, 2021, 1945, 012050.	0.3	0
5	Reduction Methodology for Fluctuation Driven Population Dynamics. Physical Review Letters, 2021, 127, 038301.	2.9	25
6	Mean-field models of populations of quadratic integrate-and-fire neurons with noise on the basis of the circular cumulant approach. Chaos, 2021, 31, 083112.	1.0	8
7	Collective in-plane magnetization in a two-dimensional XY macrospin system within the framework of generalized Ottâ€"Antonsen theory. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190259.	1.6	3
8	Small and finite inertia in stochastic systems: Moment and cumulant formalisms. AIP Conference Proceedings, 2020, , .	0.3	1
9	Circular cumulant reductions for macroscopic dynamics of Kuramoto ensemble with multiplicative intrinsic noise. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 08LT01.	0.7	6
10	Exponential Time Differencing for Stiff Systems with Nondiagonal Linear Part. Journal of Applied Mechanics and Technical Physics, 2020, 61, 1227-1237.	0.1	4
11	Hydrodynamic Dispersion for Fluid Filtration Through a Porous Medium with Random Macroscopic Inhomogeneities. Radiophysics and Quantum Electronics, 2019, 61, 553-562.	0.1	2
12	Correlations of the States of Non-Entrained Oscillators in the Kuramoto Ensemble with Noise in the Mean Field. Radiophysics and Quantum Electronics, 2019, 61, 672-680.	0.1	1
13	Relationships Between the Distribution of Watanabeâ€"Strogatz Variables and Circular Cumulants for Ensembles of Phase Elements. Fluctuation and Noise Letters, 2019, 18, 1940002.	1.0	10
14	Two-Bunch Solutions for the Dynamics of Ottâ€"Antonsen Phase Ensembles. Radiophysics and Quantum Electronics, 2019, 61, 640-649.	0.1	11
15	Interplay of the mechanisms of synchronization by common noise and global coupling for a general class of limit-cycle oscillators. Communications in Nonlinear Science and Numerical Simulation, 2019, 75, 94-108.	1.7	14
16	Stabilization of direct numerical simulation for finite truncations of circular cumulant expansions. IOP Conference Series: Materials Science and Engineering, 2019, 581, 012008.	0.3	1
17	Two scenarios of advective washing-out of localized convective patterns under frozen parametric disorder. Physica Scripta, 2019, 94, 014011.	1.2	5
18	Ott-Antonsen ansatz truncation of a circular cumulant series. Physical Review Research, 2019, 1, .	1.3	21

#	Article	IF	Citations
19	Ðô,Ñ,,ÐµÐºÑ, Ñ€Ð°ÑÑ…Ð¾Ð¶Ð´ÐµÐ½Ñ•Ñ‡Ð°ÑÑ,Ð¾Ñ, Ð² Ð°Ð½ÑÐ°Ð¼Ð±Ð»ÑÑ… Ð°Ð²Ñ,Ð¾ÐºÐ¾Ð»ÐµÐ±Ð°Ñ‚ÐµÐ»ÑŒÐ½Ñ‹Ñ		
20	Resonances and multistability in a Josephson junction connected to a resonator. Physical Review E, 2018, 97, 022203.	0.8	3
21	Comparison of the Effect of Horizontal Vibrations on Interfacial Waves in a Two-Layer System of Inviscid Liquids to Effective Gravity Inversion. Microgravity Science and Technology, 2018, 30, 1-10.	0.7	15
22	Accumulation of gases dissolved in water saturating a nonisothermal porous massif in the presence of water freezing zones. IOP Conference Series: Earth and Environmental Science, 2018, 193, 012044.	0.2	1
23	Collective mode reductions for populations of coupled noisy oscillators. Chaos, 2018, 28, 101101.	1.0	35
24	Dynamics of Noisy Oscillator Populations beyond the Ott-Antonsen Ansatz. Physical Review Letters, 2018, 120, 264101.	2.9	73
25	Synchronization of coupled active rotators by common noise. Physical Review E, 2017, 96, 062204.	0.8	24
26	Specific interface area and self-stirring in a two-liquid system experiencing intense interfacial boiling below the bulk boiling temperatures of both components. European Physical Journal: Special Topics, 2017, 226, 1155-1168.	1.2	5
27	Competing influence of common noise and desynchronizing coupling on synchronization in the Kuramoto-Sakaguchi ensemble. European Physical Journal: Special Topics, 2017, 226, 1921-1937.	1.2	9
28	Existence of the passage to the limit of an inviscid fluid. European Physical Journal E, 2017, 40, 103.	0.7	3
29	On Thermodiffusion and Gauge Transformations for Thermodynamic Fluxes and Driving Forces. Journal of Applied Mechanics and Technical Physics, 2017, 58, 1153-1158.	0.1	0
30	Hydrodynamic dispersion in porous media with macroscopic disorder of parameters. Journal of Physics: Conference Series, 2017, 894, 012062.	0.3	3
31	Conjecture on reflectionlessness of blood-vascular system as a wave-conducting medium. IOP Conference Series: Materials Science and Engineering, 2017, 208, 012015.	0.3	0
32	Specific interface area in a thin layer system of two immiscible liquids with vapour generation at the contact interface. IOP Conference Series: Materials Science and Engineering, 2017, 208, 012033.	0.3	1
33	SYNCHRONIZATION IN KURAMOTO–SAKAGUCHI ENSEMBLES WITH COMPETING INFLUENCE OF COMMON NOISE AND GLOBAL COUPLING. Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2017, 25, 5-37.	0.1	1
34	Coherence of Noisy Oscillators with Delayed Feedback Inducing Multistability. Journal of Physics: Conference Series, 2016, 681, 012045.	0.3	0
35	On Boiling of Crude Oil under Elevated Pressure. Journal of Physics: Conference Series, 2016, 681, 012031.	0.3	0
36	Gravitational instability of thin gas layer between two thick liquid layers. Journal of Applied Mechanics and Technical Physics, 2016, 57, 1182-1189.	0.1	3

#	Article	IF	Citations
37	Interplay of coupling and common noise at the transition to synchrony in oscillator populations. Scientific Reports, 2016, 6, 38518.	1.6	33
38	Running interfacial waves in a two-layer fluid system subject to longitudinal vibrations. Physical Review E, 2015, 91, 053010.	0.8	11
39	Formation of bubbly horizon in liquid-saturated porous medium by surface temperature oscillation. Physical Review E, 2015, 92, 063032.	0.8	4
40	Noise-Produced Patterns in Images Constructed from Magnetic Flux Leakage Data. Mathematical Modelling of Natural Phenomena, 2015, 10, 139-148.	0.9	3
41	Magnetic Flux Leakage Method: Large-Scale Approximation. Mathematical Modelling of Natural Phenomena, 2015, 10, 61-70.	0.9	10
42	A dissipative force between colliding viscoelastic bodies: Rigorous approach. Europhysics Letters, 2015, 109, 14005.	0.7	35
43	Collision of viscoelastic bodies: Rigorous derivation of dissipative force. European Physical Journal E, 2015, 38, 55.	0.7	14
44	Elastic and inelastic collisions of interfacial solitons and integrability of a two-layer fluid system subject to horizontal vibrations. Europhysics Letters, 2014, 108, 54001.	0.7	10
45	Boiling of the interface between two immiscible liquids below the bulk boiling temperatures of both components. European Physical Journal E, 2014, 37, 108.	0.7	8
46	Effect of temperature wave on diffusive transport of weakly soluble substances in liquid-saturated porous media. European Physical Journal Plus, 2014, 129, 1.	1.2	5
47	Scaling of the electrical conductivity of granular media. JETP Letters, 2014, 99, 273-277.	0.4	0
48	Uncertainty principle for control of ensembles of oscillators driven by common noise. European Physical Journal: Special Topics, 2014, 223, 677-685.	1.2	6
49	Noise can reduce disorder in chaotic dynamics. European Physical Journal: Special Topics, 2014, 223, 1699-1709.	1.2	3
50	Boiling at the boundary of two immiscible liquids below the bulk boiling temperature of each component. Journal of Experimental and Theoretical Physics, 2014, 119, 91-100.	0.2	5
51	Non-Fickian diffusion and the accumulation of methane bubbles in deep-water sediments. European Physical Journal E, 2014, 37, 45.	0.7	11
52	Sensitivity of the global submarine hydrate inventory to scenarios of future climate change. Earth and Planetary Science Letters, 2013, 367, 105-115.	1.8	71
53	Non-Fickian diffusion affects the relation between the salinity and hydrate capacity profiles in marine sediments. Comptes Rendus - Mecanique, 2013, 341, 386-392.	2.1	8
54	Localization and advectional spreading of convective currents under parametric disorder. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09027.	0.9	6

#	ARTICLE	IF	CITATIONS
55	Anharmonic resonances with recursive delay feedback. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3410-3414.	0.9	9
56	Scaling of transport coefficients of porous media under compaction. Europhysics Letters, 2011, 95, 64004.	0.7	6
57	Diffusive counter dispersion of mass in bubbly media. Physical Review E, 2011, 84, 056328.	0.8	15
58	Advectional enhancement of eddy diffusivity under parametric disorder. Physica Scripta, 2010, T142, 014050.	1.2	4
59	Effective long-time phase dynamics of limit-cycle oscillators driven by weak colored noise. Chaos, 2010, 20, 033126.	1.0	30
60	Comment on â€œTime-averaged properties of unstable periodic orbits and chaotic orbits in ordinary differential equation systemsâ€. Physical Review E, 2010, 81, 018201; discussion 018202.	0.8	8
61	Dynamics of Limit-Cycle Oscillators Subject to General Noise. Physical Review Letters, 2010, 105, 154101.	2.9	102
62	Diffusion of a passive scalar by convective flows under parametric disorder. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01024.	0.9	2
63	Towards quantitative prediction of proteasomal digestion patterns of proteins. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01009.	0.9	5
64	Large-scale thermal convection in a horizontal porous layer. Physical Review E, 2008, 78, 027301.	0.8	10
65	Coherence versus reliability of stochastic oscillators with delayed feedback. Physical Review E, 2008, 78, 060104.	0.8	8
66	Soret-driven convection of binary mixture in a horizontal porous layer in the presence of a heat or concentration source. Journal of Experimental and Theoretical Physics, 2007, 104, 830-836.	0.2	12
67	Antireliability of noise-driven neurons. Physical Review E, 2006, 73, 061906.	0.8	47
68	INFLUENCE OF TRANSPORT RATES ON THE PROTEIN DEGRADATION BY PROTEASOMES. Biophysical Reviews and Letters, 2006, 01, 375-386.	0.9	6
69	Effects of Delayed Feedback on Kuramoto Transition. Progress of Theoretical Physics Supplement, 2006, 161, 43-52.	0.2	6
70	Synchronization of self-sustained oscillators by common white noise. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 126-132.	1.2	66
71	Synchronization and desynchronization of self-sustained oscillators by common noise. Physical Review E, 2005, 71, 045201.	0.8	143
72	Synchronization of Limit Circle Oscillators by Telegraph Noise. AIP Conference Proceedings, 2005, , .	0.3	1

#	Article	IF	Citations
73	Synchronization of periodic self-oscillations by common noise. Radiophysics and Quantum Electronics, 2004, 47, 910-915.	0.1	11
74	Coherence of noisy oscillators with delayed feedback. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 124-128.	1.2	20
75	Controlling oscillator coherence by delayed feedback. Physical Review E, 2003, 67, 061119.	0.8	69
76	Collective modes in parametrically excited oscillator arrays. Europhysics Letters, 2002, 59, 193-198.	0.7	8
77	Wall Thickness Image Construction in Wellbore Casings using Data-Driven Inversion of Magnetic Flux Leakage. Geophysics, 0, , 1-72.	1.4	0