

Denis S Goldobin

List of Publications by Year in descending order

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77
papers

1,141
citations

566801

15
h-index

433756

31
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81
all docs

81
docs citations

81
times ranked

678
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronization and desynchronization of self-sustained oscillators by common noise. <i>Physical Review E</i> , 2005, 71, 045201.	0.8	143
2	Dynamics of Limit-Cycle Oscillators Subject to General Noise. <i>Physical Review Letters</i> , 2010, 105, 154101.	2.9	102
3	Dynamics of Noisy Oscillator Populations beyond the Ott-Antonsen Ansatz. <i>Physical Review Letters</i> , 2018, 120, 264101.	2.9	73
4	Sensitivity of the global submarine hydrate inventory to scenarios of future climate change. <i>Earth and Planetary Science Letters</i> , 2013, 367, 105-115.	1.8	71
5	Controlling oscillator coherence by delayed feedback. <i>Physical Review E</i> , 2003, 67, 061119.	0.8	69
6	Synchronization of self-sustained oscillators by common white noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 351, 126-132.	1.2	66
7	Antireliability of noise-driven neurons. <i>Physical Review E</i> , 2006, 73, 061906.	0.8	47
8	A dissipative force between colliding viscoelastic bodies: Rigorous approach. <i>Europhysics Letters</i> , 2015, 109, 14005.	0.7	35
9	Collective mode reductions for populations of coupled noisy oscillators. <i>Chaos</i> , 2018, 28, 101101.	1.0	35
10	Interplay of coupling and common noise at the transition to synchrony in oscillator populations. <i>Scientific Reports</i> , 2016, 6, 38518.	1.6	33
11	Effective long-time phase dynamics of limit-cycle oscillators driven by weak colored noise. <i>Chaos</i> , 2010, 20, 033126.	1.0	30
12	Reduction Methodology for Fluctuation Driven Population Dynamics. <i>Physical Review Letters</i> , 2021, 127, 038301.	2.9	25
13	Synchronization of coupled active rotators by common noise. <i>Physical Review E</i> , 2017, 96, 062204.	0.8	24
14	Ott-Antonsen ansatz truncation of a circular cumulant series. <i>Physical Review Research</i> , 2019, 1, .	1.3	21
15	Coherence of noisy oscillators with delayed feedback. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 327, 124-128.	1.2	20
16	Diffusive counter dispersion of mass in bubbly media. <i>Physical Review E</i> , 2011, 84, 056328.	0.8	15
17	Comparison of the Effect of Horizontal Vibrations on Interfacial Waves in a Two-Layer System of Inviscid Liquids to Effective Gravity Inversion. <i>Microgravity Science and Technology</i> , 2018, 30, 1-10.	0.7	15
18	Collision of viscoelastic bodies: Rigorous derivation of dissipative force. <i>European Physical Journal E</i> , 2015, 38, 55.	0.7	14

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19	Interplay of the mechanisms of synchronization by common noise and global coupling for a general class of limit-cycle oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 75, 94-108.	1.7	14
20	Coherent oscillations in balanced neural networks driven by endogenous fluctuations. <i>Chaos</i> , 2022, 32, 023120.	1.0	14
21	Soret-driven convection of binary mixture in a horizontal porous layer in the presence of a heat or concentration source. <i>Journal of Experimental and Theoretical Physics</i> , 2007, 104, 830-836.	0.2	12
22	Synchronization of periodic self-oscillations by common noise. <i>Radiophysics and Quantum Electronics</i> , 2004, 47, 910-915.	0.1	11
23	Non-Fickian diffusion and the accumulation of methane bubbles in deep-water sediments. <i>European Physical Journal E</i> , 2014, 37, 45.	0.7	11
24	Running interfacial waves in a two-layer fluid system subject to longitudinal vibrations. <i>Physical Review E</i> , 2015, 91, 053010.	0.8	11
25	Two-Bunch Solutions for the Dynamics of Ott-Antonsen Phase Ensembles. <i>Radiophysics and Quantum Electronics</i> , 2019, 61, 640-649.	0.1	11
26	Large-scale thermal convection in a horizontal porous layer. <i>Physical Review E</i> , 2008, 78, 027301.	0.8	10
27	Elastic and inelastic collisions of interfacial solitons and integrability of a two-layer fluid system subject to horizontal vibrations. <i>Europhysics Letters</i> , 2014, 108, 54001.	0.7	10
28	Magnetic Flux Leakage Method: Large-Scale Approximation. <i>Mathematical Modelling of Natural Phenomena</i> , 2015, 10, 61-70.	0.9	10
29	Relationships Between the Distribution of Watanabe-Strogatz Variables and Circular Cumulants for Ensembles of Phase Elements. <i>Fluctuation and Noise Letters</i> , 2019, 18, 1940002.	1.0	10
30	Anharmonic resonances with recursive delay feedback. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3410-3414.	0.9	9
31	Competing influence of common noise and desynchronizing coupling on synchronization in the Kuramoto-Sakaguchi ensemble. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1921-1937.	1.2	9
32	Collective modes in parametrically excited oscillator arrays. <i>Europhysics Letters</i> , 2002, 59, 193-198.	0.7	8
33	Coherence versus reliability of stochastic oscillators with delayed feedback. <i>Physical Review E</i> , 2008, 78, 060104.	0.8	8
34	Comment on "Time-averaged properties of unstable periodic orbits and chaotic orbits in ordinary differential equation systems"; <i>Physical Review E</i> , 2010, 81, 018201; discussion 018202.	0.8	8
35	Non-Fickian diffusion affects the relation between the salinity and hydrate capacity profiles in marine sediments. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 386-392.	2.1	8
36	Boiling of the interface between two immiscible liquids below the bulk boiling temperatures of both components. <i>European Physical Journal E</i> , 2014, 37, 108.	0.7	8

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37	Mean-field models of populations of quadratic integrate-and-fire neurons with noise on the basis of the circular cumulant approach. <i>Chaos</i> , 2021, 31, 083112.	1.0	8
38	Effect of noise on the collective dynamics of a heterogeneous population of active rotators. <i>Chaos</i> , 2021, 31, 043101.	1.0	7
39	INFLUENCE OF TRANSPORT RATES ON THE PROTEIN DEGRADATION BY PROTEASOMES. <i>Biophysical Reviews and Letters</i> , 2006, 01, 375-386.	0.9	6
40	Effects of Delayed Feedback on Kuramoto Transition. <i>Progress of Theoretical Physics Supplement</i> , 2006, 161, 43-52.	0.2	6
41	Scaling of transport coefficients of porous media under compaction. <i>Europhysics Letters</i> , 2011, 95, 64004.	0.7	6
42	Localization and advective spreading of convective currents under parametric disorder. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P09027.	0.9	6
43	Uncertainty principle for control of ensembles of oscillators driven by common noise. <i>European Physical Journal: Special Topics</i> , 2014, 223, 677-685.	1.2	6
44	Circular cumulant reductions for macroscopic dynamics of Kuramoto ensemble with multiplicative intrinsic noise. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 08LT01.	0.7	6
45	Towards quantitative prediction of proteasomal digestion patterns of proteins. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P01009.	0.9	5
46	Effect of temperature wave on diffusive transport of weakly soluble substances in liquid-saturated porous media. <i>European Physical Journal Plus</i> , 2014, 129, 1.	1.2	5
47	Boiling at the boundary of two immiscible liquids below the bulk boiling temperature of each component. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 91-100.	0.2	5
48	Specific interface area and self-stirring in a two-liquid system experiencing intense interfacial boiling below the bulk boiling temperatures of both components. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1155-1168.	1.2	5
49	Two scenarios of advective washing-out of localized convective patterns under frozen parametric disorder. <i>Physica Scripta</i> , 2019, 94, 014011.	1.2	5
50	Advective enhancement of eddy diffusivity under parametric disorder. <i>Physica Scripta</i> , 2010, T142, 014050.	1.2	4
51	Formation of bubbly horizon in liquid-saturated porous medium by surface temperature oscillation. <i>Physical Review E</i> , 2015, 92, 063032.	0.8	4
52	Exponential Time Differencing for Stiff Systems with Nondiagonal Linear Part. <i>Journal of Applied Mechanics and Technical Physics</i> , 2020, 61, 1227-1237.	0.1	4
53	Noise can reduce disorder in chaotic dynamics. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1699-1709.	1.2	3
54	Noise-Produced Patterns in Images Constructed from Magnetic Flux Leakage Data. <i>Mathematical Modelling of Natural Phenomena</i> , 2015, 10, 139-148.	0.9	3

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55	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
56	Existence of the passage to the limit of an inviscid fluid. European Physical Journal E, 2017, 40, 103.	0.7	3
57	Hydrodynamic dispersion in porous media with macroscopic disorder of parameters. Journal of Physics: Conference Series, 2017, 894, 012062.	0.3	3
58	Resonances and multistability in a Josephson junction connected to a resonator. Physical Review E, 2018, 97, 022203.	0.8	3
59	Collective in-plane magnetization in a two-dimensional XY macrospin system within the framework of generalized Ott-antonsen theory. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190259.	1.6	3
60	Diffusion of a passive scalar by convective flows under parametric disorder. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01024.	0.9	2
61	Hydrodynamic Dispersion for Fluid Filtration Through a Porous Medium with Random Macroscopic Inhomogeneities. Radiophysics and Quantum Electronics, 2019, 61, 553-562.	0.1	2
62	Synchronization of Limit Circle Oscillators by Telegraph Noise. AIP Conference Proceedings, 2005, , .	0.3	1
63	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
64	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
65	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
66	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
67	Small and finite inertia in stochastic systems: Moment and cumulant formalisms. AIP Conference Proceedings, 2020, , .	0.3	1
68	Синхронизация в ансамбле осцилляторов Курамото с конкурирующим влиянием общего шума и глобальной связи. Известия Высших Учебных Заведений Прикладная Нелинейная Динамика, 2017, 25, 5-37.	0.1	1
69	SYNCHRONIZATION IN KURAMOTO- α -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
70	Scaling of the electrical conductivity of granular media. JETP Letters, 2014, 99, 273-277.	0.4	0
71	Coherence of Noisy Oscillators with Delayed Feedback Inducing Multistability. Journal of Physics: Conference Series, 2016, 681, 012045.	0.3	0
72	On Boiling of Crude Oil under Elevated Pressure. Journal of Physics: Conference Series, 2016, 681, 012031.	0.3	0

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73	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
74	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
75	Controlling oscillator coherence by multiple delay feedback. Mathematical Modelling of Natural Phenomena, 2021, 16, 6.	0.9	0
76	Four approaches for description of stochastic systems with small and finite inertia. Journal of Physics: Conference Series, 2021, 1945, 012050.	0.3	0
77	Wall Thickness Image Construction in Wellbore Casings using Data-Driven Inversion of Magnetic Flux Leakage. Geophysics, 0, , 1-72.	1.4	0