Sergey A Suslov

List of Publications by Year in descending order

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516710 610901 66 723 16 24 citations g-index h-index papers 68 68 68 490 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Neural echo state network using oscillations of gas bubbles in water. Physical Review E, 2022, 105, 044206.	2.1	7
2	Acoustic, Phononic, Brillouin Light Scattering and Faraday Wave-Based Frequency Combs: Physical Foundations and Applications. Sensors, 2022, 22, 3921.	3.8	7
3	Acoustic frequency combs using gas bubble cluster oscillations in liquids: a proof of concept. Scientific Reports, 2021, 11, 38.	3.3	12
4	Spectrally wide acoustic frequency combs generated using oscillations of polydisperse gas bubble clusters in liquids. Physical Review E, 2021, 104, 035104.	2.1	5
5	Investigation of sea spray effect on the vertical momentum transport using an Eulerian multi-fluid-type model. Journal of Physical Oceanography, 2021, , .	1.7	3
6	Intensity spiking and oscillation in frequency-upconverted field from four-wave mixing in rubidium vapor., 2021,,.		0
7	Linear stability and saddle-node bifurcation of electromagnetically driven electrolyte flow in an annular layer. Journal of Fluid Mechanics, 2020, 887, .	3.4	2
8	Beamed UV sonoluminescence by aspherical air bubble collapse near liquid-metal microparticles. Scientific Reports, 2020, 10, 1501.	3.3	17
9	Intermittent dynamic bursting in vertically vibrated liquid drops. Physics of Fluids, 2020, 32, 124114.	4.0	3
10	Spiking dynamics of frequency upconverted field generated in continuous-wave excited rubidium vapors. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2430.	2.1	8
11	Instability of swirling electrolyte flows driven electromagnetically. Magnetohydrodynamics, 2020, 56, 139-148.	0.3	0
12	Effect of Evaporating Sea Spray on Heat Fluxes in a Marine Atmospheric Boundary Layer. Journal of Physical Oceanography, 2019, 49, 1927-1948.	1.7	9
13	Nonlinear interaction of thermogravitational waves and thermomagnetic rolls in a vertical layer of ferrofluid placed in a normal magnetic field. Physics of Fluids, 2019, 31, .	4.0	3
14	UV-plasmonic germicidal radiation beams enabled by sonoluminescence of air bubbles near liquid-metal particles. , 2019 , , .		0
15	The influence of magnetic field on convection in an inclined ferrofluid layer heated from below. Journal of Physics: Conference Series, 2018, 1141, 012082.	0.4	2
16	On the definition of Landau constants in amplitude equations away from a critical point. Royal Society Open Science, 2018, 5, 180746.	2.4	8
17	Governing Equations. Advances in Mechanics and Mathematics, 2018, , 11-19.	0.7	0
18	Theory of Thermogravitational and Thermomagnetic Convection in an Infinite Vertical Layer of Homogeneous Ferrofluid. Advances in Mechanics and Mathematics, 2018, , 21-103.	0.7	0

#	Article	IF	CITATIONS
19	Experimental Methodology. Advances in Mechanics and Mathematics, 2018, , 105-126.	0.7	0
20	Ferrofluids: Composition and Physical Processes. Advances in Mechanics and Mathematics, 2018, , 1-9.	0.7	0
21	Convection in Ferro-Nanofluids: Experiments and Theory. Advances in Mechanics and Mathematics, 2018, , .	0.7	11
22	Experimental Investigation of Thermomagnetic Convection in Ferrofluids. Advances in Mechanics and Mathematics, 2018, , 165-244.	0.7	0
23	Experimental Investigation of Thermogravitational Convection in Ferrofluids. Advances in Mechanics and Mathematics, 2018, , 127-164.	0.7	0
24	The influence of uniform external magnetic field on heat transfer in ferrofluids. Magnetohydrodynamics, 2018, 54, 61-64.	0.3	0
25	Electromagnetically driven flow of electrolyte in a thin annular layer: axisymmetric solutions. Journal of Fluid Mechanics, 2017, 828, 573-600.	3.4	9
26	The use of ferrofluids for heat removal: Advantage or disadvantage?. Journal of Magnetism and Magnetic Materials, 2017, 431, 241-244.	2.3	18
27	Complex behaviour of a nanofluid near thermal convection onset: Its nature and features. International Journal of Heat and Mass Transfer, 2017, 104, 688-692.	4.8	3
28	Amplified spontaneous emission at 523  μm in two-photon excited rubidium vapor. Journal of the Optic Society of America B: Optical Physics, 2017, 34, 2478.	cal 2.1	16
29	Thermomagnetic instabilities in a vertical layer of ferrofluid: nonlinear analysis away from a critical point. Fluid Dynamics Research, 2016, 48, 061404.	1.3	8
30	Magneto-gravitational convection in a vertical layer of ferrofluid in a uniform oblique magnetic field. Journal of Fluid Mechanics, 2016, 795, 847-875.	3.4	18
31	Two-Temperature Nonequilibrium Model of a Marine Boundary Layer Laden with Evaporating Ocean Spray under High-Wind Conditions. Journal of Physical Oceanography, 2016, 46, 3083-3102.	1.7	7
32	Oscillatory instability of convection in ferromagnetic nanofluid and in transformer oil. Fluid Dynamics Research, 2016, 48, 061407.	1.3	5
33	Arithmetic with optical topological charges in stepwise-excited Rb vapor. Optics Letters, 2016, 41, 1146.	3.3	34
34	Detection and analysis of coherent groups in three-dimensional fully-nonlinear potential wave fields. Ocean Modelling, 2016, 103, 73-86.	2.4	7
35	Intermittent flow regimes near the convection threshold in ferromagnetic nanofluids. Physical Review E, 2015, 91, 013010.	2.1	15
36	Thermomagnetic convection in a layer of ferrofluid placed in a uniform oblique external magnetic field. Journal of Fluid Mechanics, 2015, 764, 316-348.	3.4	29

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37	E–ε Model of Spray-Laden Near-Sea Atmospheric Layer in High Wind Conditions. Journal of Physical Oceanography, 2014, 44, 742-763.	1.7	11
38	Effects of coupling, bubble size, and spatial arrangement on chaotic dynamics of microbubble cluster in ultrasonic fields. Journal of the Acoustical Society of America, 2013, 134, 3425-3434.	1.1	38
39	Thermomagnetic convective flows in a vertical layer of ferrocolloid: Perturbation energy analysis and experimental study. Physical Review E, 2012, 86, 016301.	2.1	21
40	Nonlinear dynamic behavior of microscopic bubbles near a rigid wall. Physical Review E, 2012, 85, 066309.	2.1	21
41	Statistics of Wave Orbital Velocity in Deep Water Random Directional Wave Fields. , 2012, , .		3
42	Effect of Ocean Spray on Vertical Momentum Transport Under High-Wind Conditions. Boundary-Layer Meteorology, 2011, 141, 1-20.	2.3	19
43	Interaction of gravitational and magnetic mechanisms of convection in a vertical layer of a magnetic fluid. Physics Procedia, 2010, 9, 167-170.	1.2	6
44	Mechanism of nonlinear flow pattern selection in moderately non-Boussinesq mixed convection. Physical Review E, 2010, 81, 026301.	2.1	1
45	Analysis of instability patterns in non-Boussinesq mixed convection using a direct numerical evaluation of disturbance integrals. Computers and Fluids, 2009, 38, 590-601.	2.5	1
46	Stability of plane Poiseuille–Couette flows of a piezo-viscous fluid. Journal of Non-Newtonian Fluid Mechanics, 2009, 156, 139-149.	2.4	8
47	Revisiting plane Couette–Poiseuille flows of a piezo-viscous fluid. Journal of Non-Newtonian Fluid Mechanics, 2008, 154, 170-178.	2.4	20
48	Thermomagnetic convection in a vertical layer of ferromagnetic fluid. Physics of Fluids, 2008, 20, .	4.0	45
49	Two-equation model of mean flow resonances in subcritical flow systems. Discrete and Continuous Dynamical Systems - Series S, 2008, 1, 165-176.	1.1	6
50	Convective and absolute instabilities in non-Boussinesq mixed convection. Theoretical and Computational Fluid Dynamics, 2007, 21, 271-290.	2.2	4
51	Numerical aspects of searching convective/absolute instability transition. Journal of Computational Physics, 2006, 212, 188-217.	3.8	38
52	Analysis of coupling between hydrodynamic and thermal instabilities in non-Boussinesq convection. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e1435-e1443.	1.1	1
53	Magnetic flux density distribution in axial flux machine cores. IET Electric Power Applications, 2005, 152, 292.	1.4	4
54	Stability of non-Boussinesq convection via the complex Ginzburg–Landau model. Fluid Dynamics Research, 2004, 35, 159-203.	1.3	24

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55	A Petrov-Galerkin method for flows in cavities: enclosure of aspect ratio 8. International Journal for Numerical Methods in Fluids, 2002, 40, 999-1007.	1.6	3
56	Searching convective/absolute instability boundary for flows with fully numerical dispersion relation. Computer Physics Communications, 2001, 142, 322-325.	7. 5	4
57	Modeling of Sample Dynamics in Rectangular Asymmetrical Flow Field-Flow Fractionation Channels. Analytical Chemistry, 2000, 72, 4331-4345.	6.5	6
58	Advectionâ€dispersion in symmetric fieldâ€flow fractionation channels. Journal of Mathematical Chemistry, 1999, 26, 27-46.	1.5	1
59	Nonlinear stability of mixed convection flow under non-Boussinesq conditions. Part 1. Analysis and bifurcations. Journal of Fluid Mechanics, 1999, 398, 61-85.	3.4	20
60	Nonlinear stability of mixed convection flow under non-Boussinesq conditions. Part 2. Mean flow characteristics. Journal of Fluid Mechanics, 1999, 398, 87-108.	3.4	12
61	Nonlinear analysis of convection flow in a tall vertical enclosure under non-Boussinesq conditions. Journal of Fluid Mechanics, 1997, 344, 1-41.	3.4	36
62	Stability of natural convection flow in a tall vertical enclosure under non-Boussinesq conditions. International Journal of Heat and Mass Transfer, 1995, 38, 2143-2157.	4.8	53
63	Stability of mixed-convection flow in a tall vertical channel under non-boussinesq conditions. Journal of Fluid Mechanics, 1995, 302, 91-115.	3.4	41
64	Multi-mode spatio-temporal instability in non-Boussinesq convection. ANZIAM Journal, 0, 45, 149.	0.0	3
65	Numerical modelling of axisymmetric electromagnetically driven flows in thin layers. ANZIAM Journal, 0, 58, 46.	0.0	1
66	The mechanism of vortex instability in electromagnetically driven flow in an annular thin layer of electrolyte. ANZIAM Journal, 0, 61, C214-C228.	0.0	2