

Alexander F Pshenichnikov

List of Publications by Year in descending order

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60
papers

1,226
citations

430442

18
h-index

377514

34
g-index

61
all docs

61
docs citations

61
times ranked

522
citing authors

#	ARTICLE	IF	CITATIONS
1	Magneto-granulometric analysis of concentrated ferrocolloids. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 161, 94-102.	1.0	156
2	Magnetic properties of polydisperse ferrofluids: A critical comparison between experiment, theory, and computer simulation. <i>Physical Review E</i> , 2007, 75, 061405.	0.8	130
3	Magnetic properties of ferrocolloids. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 85, 40-46.	1.0	82
4	On the Structure of Microaggregates in Magnetite Colloids. <i>Journal of Colloid and Interface Science</i> , 1996, 182, 63-70.	5.0	80
5	Equilibrium magnetization of concentrated ferrocolloids. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 145, 319-326.	1.0	78
6	Equilibrium magnetization and microstructure of the system of superparamagnetic interacting particles: numerical simulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 213, 357-369.	1.0	64
7	Magnetic properties of ferrocolloids: The effect of interparticle interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 1987, 65, 269-272.	1.0	56
8	Magnetophoresis, sedimentation, and diffusion of particles in concentrated magnetic fluids. <i>Journal of Chemical Physics</i> , 2011, 134, 184508.	1.2	45
9	Cluster structure and the first-order phase transition in dipolar systems. <i>European Physical Journal E</i> , 2001, 6, 399-407.	0.7	39
10	Low-temperature susceptibility of concentrated magnetic fluids. <i>Journal of Chemical Physics</i> , 2004, 121, 5455-5467.	1.2	38
11	Magnetic susceptibility of concentrated ferrocolloids. <i>Colloid Journal</i> , 2005, 67, 189-200.	0.5	36
12	Temperature-dependent dynamic correlations in suspensions of magnetic nanoparticles in a broad range of concentrations: a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18342-18352.	1.3	35
13	Dynamic susceptibility of a concentrated ferrofluid: The role of interparticle interactions. <i>Physical Review E</i> , 2019, 100, 032605.	0.8	29
14	Magnetophoresis of particles and aggregates in concentrated magnetic fluids. <i>Physical Review E</i> , 2012, 86, 051401.	0.8	28
15	Chain-like aggregates in magnetic fluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 292, 332-344.	1.0	25
16	Dispersion of magnetic susceptibility and the microstructure of magnetic fluid. <i>Colloid Journal</i> , 2006, 68, 294-303.	0.5	22
17	Magnetophoresis and diffusion of colloidal particles in a thin layer of magnetic fluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2575-2580.	1.0	22
18	Sedimentation equilibria in polydisperse ferrofluids: critical comparisons between experiment, theory, and computer simulation. <i>Soft Matter</i> , 2016, 12, 4103-4112.	1.2	19

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19	Phase separation in dipolar systems: Numerical simulation. JETP Letters, 2000, 72, 182-185.	0.4	18
20	A mutual-inductance bridge for analysis of magnetic fluids. Instruments and Experimental Techniques, 2007, 50, 509-514.	0.1	17
21	A magnetic fluid for operation in strong gradient fields. Colloid Journal, 2015, 77, 196-201.	0.5	17
22	Deformation of the free surface of a liquid by thermocapillary motion. Fluid Dynamics, 1983, 18, 463-465.	0.2	14
23	Floating of solid non-magnetic bodies in magnetic fluids: Comprehensive analysis in the framework of inductive approach. Physics of Fluids, 2020, 32, .	1.6	14
24	Vortex flows induced by drop-like aggregate drift in magnetic fluids. Physics of Fluids, 2014, 26, .	1.6	12
25	Weakening of magnetic response experimentally observed for ferrofluids with strongly interacting magnetic nanoparticles. Journal of Molecular Liquids, 2019, 277, 762-768.	2.3	10
26	Influence of coagulant and free stabilizer on formation of aggregates in magnetic fluids. Colloid Journal, 2010, 72, 236-242.	0.5	9
27	Effect of demagnetizing fields on particle spatial distribution in magnetic fluids. Magnetohydrodynamics, 2012, 48, 503-514.	0.5	9
28	Concentration-dependent zero-field magnetic dynamic response of polydisperse ferrofluids. Journal of Magnetism and Magnetic Materials, 2018, 459, 252-255.	1.0	8
29	Dynamics of Magnetic Fluids in Crossed DC and AC Magnetic Fields. Nanomaterials, 2019, 9, 1711.	1.9	8
30	Nonlinear response of a dilute ferrofluid to an alternating magnetic field. Journal of Molecular Liquids, 2022, 346, 117449.	2.3	8
31	Determination of the weight of a non-magnetic body immersed in magnetic fluid exposed to uniform magnetic field. Magnetohydrodynamics, 2019, 55, 73-78.	0.5	8
32	Birefringence in Concentrated Ferrocolloids. Colloid Journal, 2001, 63, 275-282.	0.5	7
33	Self-organization of magnetic moments in dipolar chains with restricted degrees of freedom. Physical Review E, 2015, 92, 042303.	0.8	7
34	On natural solutal convection in magnetic fluids. Physics of Fluids, 2015, 27, 092001.	1.6	7
35	Motion of a deformable droplet of magnetic fluid in a rotating magnetic field. Fluid Dynamics, 2000, 35, 17-23.	0.2	6
36	Effect of centrifugation on dynamic susceptibility of magnetic fluids. Journal of Magnetism and Magnetic Materials, 2017, 432, 30-36.	1.0	6

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37	Sedimentation equilibrium of magnetic nanoparticles with strong dipole-dipole interactions. <i>Physical Review E</i> , 2017, 95, 032609.	0.8	6
38	Floating of dia-, para-, and superparamagnetic bodies in magnetic fluids: Analysis of wall effects in the framework of inductive approach. <i>Physics of Fluids</i> , 2021, 33, .	1.6	6
39	Computation of demagnetizing fields and particle distribution in magnetic fluid with inhomogeneous density. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1342-1347.	1.0	5
40	Deformation and breakup of a liquid film under the action of thermocapillary convection. <i>Journal of Applied Mechanics and Technical Physics</i> , 1987, 28, 399-403.	0.1	4
41	The magneto-optical properties of an ensemble of ellipsoidal dielectric particles in a magnetic fluid. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 95, 275-281.	0.2	4
42	Measurements of the transverse susceptibility and magnetization of magnetic fluids. <i>Instruments and Experimental Techniques</i> , 2008, 51, 466-470.	0.1	4
43	Sedimentation of particles in concentrated magnetic fluids: numerical simulation. <i>Magneto hydrodynamics</i> , 2015, 51, 551-560.	0.5	4
44	Forces acting on a permanent magnet placed in a rectangular cavity with a magnetic fluid. <i>Computational Continuum Mechanics</i> , 2014, 7, 5-14.	0.1	4
45	Free convection of a liquid binary mixture in an inclined rectangular cavity. <i>Fluid Dynamics</i> , 1980, 14, 619-622.	0.2	3
46	A method of simultaneous measurement of the soret and diffusion coefficients of liquid solutions. <i>Journal of Engineering Physics</i> , 1983, 44, 529-533.	0.0	3
47	Effect of free convection on thermodiffusion in a liquid mixture filling an inclined rectangular cavity. <i>Journal of Applied Mechanics and Technical Physics</i> , 1987, 27, 695-697.	0.1	3
48	Gravitational Convection of a Liquid Mixture in a Horizontal Cylindrical Gap at Moderate Grashof Numbers. <i>Cosmic Research</i> , 2004, 42, 109-116.	0.2	2
49	Influence of interparticle interactions on diffusion processes in magnetic fluids. <i>Physics Procedia</i> , 2010, 9, 101-104.	1.2	2
50	Equilibrium susceptibility of concentrated ferrocolloids: Monte Carlo simulation. <i>Magneto hydrodynamics</i> , 2013, 49, 101-110.	0.5	2
51	Nonlinear response of a concentrated ferrofluid to a low-frequency magnetic field. <i>Magneto hydrodynamics</i> , 2018, 54, 73-78.	0.5	2
52	Magnetic properties of solidified ferrocolloids. <i>Physics of the Solid State</i> , 1998, 40, 970-974.	0.2	1
53	Dynamics of magnetophoresis in dilute magnetic fluids. <i>Physics Procedia</i> , 2010, 9, 96-100.	1.2	1
54	Stationary Thermomagnetic Convection of Ferrofluid in an Enclosed Loop. <i>Journal of Physics: Conference Series</i> , 2021, 1945, 012022.	0.3	1

#	ARTICLE	IF	CITATIONS
55	Convective oscillations in interconnected containers. Fluid Dynamics, 1976, 9, 506-510.	0.2	0
56	Effect of thermal diffusion on free convection of a binary mixture in a cavity with a square cross-section. Journal of Applied Mechanics and Technical Physics, 1982, 22, 655-659.	0.1	0
57	Thermodiffusion separation of a liquid mixture under developed convection conditions. Journal of Applied Mechanics and Technical Physics, 1988, 29, 212-216.	0.1	0
58	Magnetovibrational flows in a magnetic fluid. Fluid Dynamics, 1998, 33, 102-109.	0.2	0
59	Magneto-optical properties of binar ferrocolloids. Journal of Physics: Conference Series, 2018, 994, 012010.	0.3	0
60	Amplitude Dependence of Dynamic Susceptibility of a Magnetic Fluid at Acoustic Frequencies. IOP Conference Series: Materials Science and Engineering, 2019, 581, 012024.	0.3	0