

# Alexander F Pshenichnikov

## List of Publications by Year in descending order

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61  
papers

1,226  
citations

430874

18  
h-index

377865

34  
g-index

61  
all docs

61  
docs citations

61  
times ranked

522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear response of a dilute ferrofluid to an alternating magnetic field. <i>Journal of Molecular Liquids</i> , 2022, 346, 117449.	4.9	8
2	Stationary Thermomagnetic Convection of Ferrofluid in an Enclosed Loop. <i>Journal of Physics: Conference Series</i> , 2021, 1945, 012022.	0.4	1
3	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, .	4.0	6
4	Floating of solid non-magnetic bodies in magnetic fluids: Comprehensive analysis in the framework of inductive approach. <i>Physics of Fluids</i> , 2020, 32, .	4.0	14
5	Weakening of magnetic response experimentally observed for ferrofluids with strongly interacting magnetic nanoparticles. <i>Journal of Molecular Liquids</i> , 2019, 277, 762-768.	4.9	10
6	Dynamic susceptibility of a concentrated ferrofluid: The role of interparticle interactions. <i>Physical Review E</i> , 2019, 100, 032605.	2.1	29
7	Amplitude Dependence of Dynamic Susceptibility of a Magnetic Fluid at Acoustic Frequencies. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 581, 012024.	0.6	0
8	Dynamics of Magnetic Fluids in Crossed DC and AC Magnetic Fields. <i>Nanomaterials</i> , 2019, 9, 1711.	4.1	8
9	Determination of the weight of a non-magnetic body immersed in magnetic fluid exposed to uniform magnetic field. <i>Magneto hydrodynamics</i> , 2019, 55, 73-78.	0.3	8
10	Concentration-dependent zero-field magnetic dynamic response of polydisperse ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 252-255.	2.3	8
11	Magneto-optical properties of binar ferrocolloids. <i>Journal of Physics: Conference Series</i> , 2018, 994, 012010.	0.4	0
12	Nonlinear response of a concentrated ferrofluid to a low-frequency magnetic field. <i>Magneto hydrodynamics</i> , 2018, 54, 73-78.	0.3	2
13	Effect of centrifugation on dynamic susceptibility of magnetic fluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 30-36.	2.3	6
14	Sedimentation equilibrium of magnetic nanoparticles with strong dipole-dipole interactions. <i>Physical Review E</i> , 2017, 95, 032609.	2.1	6
15	Sedimentation equilibria in polydisperse ferrofluids: critical comparisons between experiment, theory, and computer simulation. <i>Soft Matter</i> , 2016, 12, 4103-4112.	2.7	19
16	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.	2.8	35
17	Self-organization of magnetic moments in dipolar chains with restricted degrees of freedom. <i>Physical Review E</i> , 2015, 92, 042303.	2.1	7
18	A magnetic fluid for operation in strong gradient fields. <i>Colloid Journal</i> , 2015, 77, 196-201.	1.3	17

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19	On natural solutal convection in magnetic fluids. <i>Physics of Fluids</i> , 2015, 27, 092001.	4.0	7
20	Sedimentation of particles in concentrated magnetic fluids: numerical simulation. <i>Magnetohydrodynamics</i> , 2015, 51, 551-560.	0.3	4
21	Vortex flows induced by drop-like aggregate drift in magnetic fluids. <i>Physics of Fluids</i> , 2014, 26, .	4.0	12
22	Forces acting on a permanent magnet placed in a rectangular cavity with a magnetic fluid. <i>Computational Continuum Mechanics</i> , 2014, 7, 5-14.	0.5	4
23	Equilibrium susceptibility of concentrated ferrocolloids: Monte Carlo simulation. <i>Magnetohydrodynamics</i> , 2013, 49, 101-110.	0.3	2
24	Magnetophoresis of particles and aggregates in concentrated magnetic fluids. <i>Physical Review E</i> , 2012, 86, 051401.	2.1	28
25	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.	2.3	5
26	Effect of demagnetizing fields on particle spatial distribution in magnetic fluids. <i>Magnetohydrodynamics</i> , 2012, 48, 503-514.	0.3	9
27	Magnetophoresis, sedimentation, and diffusion of particles in concentrated magnetic fluids. <i>Journal of Chemical Physics</i> , 2011, 134, 184508.	3.0	45
28	Influence of coagulant and free stabilizer on formation of aggregates in magnetic fluids. <i>Colloid Journal</i> , 2010, 72, 236-242.	1.3	9
29	Dynamics of magnetophoresis in dilute magnetic fluids. <i>Physics Procedia</i> , 2010, 9, 96-100.	1.2	1
30	Influence of interparticle interactions on diffusion processes in magnetic fluids. <i>Physics Procedia</i> , 2010, 9, 101-104.	1.2	2
31	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.	2.3	22
32	Measurements of the transverse susceptibility and magnetization of magnetic fluids. <i>Instruments and Experimental Techniques</i> , 2008, 51, 466-470.	0.5	4
33	Magnetic properties of polydisperse ferrofluids: A critical comparison between experiment, theory, and computer simulation. <i>Physical Review E</i> , 2007, 75, 061405.	2.1	130
34	A mutual-inductance bridge for analysis of magnetic fluids. <i>Instruments and Experimental Techniques</i> , 2007, 50, 509-514.	0.5	17
35	Response to "Comment on "Tangential stresses on the magnetic fluid boundary and rotational effect". <i>Magnetohydrodynamics</i> , 2007, 43, 143-145.	0.3	0
36	Dispersion of magnetic susceptibility and the microstructure of magnetic fluid. <i>Colloid Journal</i> , 2006, 68, 294-303.	1.3	22

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37	Chain-like aggregates in magnetic fluids. Journal of Magnetism and Magnetic Materials, 2005, 292, 332-344.	2.3	25
38	Magnetic susceptibility of concentrated ferrocolloids. Colloid Journal, 2005, 67, 189-200.	1.3	36
39	Gravitational Convection of a Liquid Mixture in a Horizontal Cylindrical Gap at Moderate Grashof Numbers. Cosmic Research, 2004, 42, 109-116.	0.6	2
40	Low-temperature susceptibility of concentrated magnetic fluids. Journal of Chemical Physics, 2004, 121, 5455-5467.	3.0	38
41	The magneto-optical properties of an ensemble of ellipsoidal dielectric particles in a magnetic fluid. Journal of Experimental and Theoretical Physics, 2002, 95, 275-281.	0.9	4
42	Cluster structure and the first-order phase transition in dipolar systems. European Physical Journal E, 2001, 6, 399-407.	1.6	39
43	Birefringence in Concentrated Ferrocolloids. Colloid Journal, 2001, 63, 275-282.	1.3	7
44	Phase separation in dipolar systems: Numerical simulation. JETP Letters, 2000, 72, 182-185.	1.4	18
45	Equilibrium magnetization and microstructure of the system of superparamagnetic interacting particles: numerical simulation. Journal of Magnetism and Magnetic Materials, 2000, 213, 357-369.	2.3	64
46	Motion of a deformable droplet of magnetic fluid in a rotating magnetic field. Fluid Dynamics, 2000, 35, 17-23.	0.9	6
47	Magnetic properties of solidified ferrocolloids. Physics of the Solid State, 1998, 40, 970-974.	0.6	1
48	Magnetovibrational flows in a magnetic fluid. Fluid Dynamics, 1998, 33, 102-109.	0.9	0
49	Magneto-granulometric analysis of concentrated ferrocolloids. Journal of Magnetism and Magnetic Materials, 1996, 161, 94-102.	2.3	156
50	On the Structure of Microaggregates in Magnetite Colloids. Journal of Colloid and Interface Science, 1996, 182, 63-70.	9.4	80
51	Equilibrium magnetization of concentrated ferrocolloids. Journal of Magnetism and Magnetic Materials, 1995, 145, 319-326.	2.3	78
52	Magnetic properties of ferrocolloids. Journal of Magnetism and Magnetic Materials, 1990, 85, 40-46.	2.3	82
53	Thermodiffusion separation of a liquid mixture under developed convection conditions. Journal of Applied Mechanics and Technical Physics, 1988, 29, 212-216.	0.5	0
54	Effect of free convection on thermodiffusion in a liquid mixture filling an inclined rectangular cavity. Journal of Applied Mechanics and Technical Physics, 1987, 27, 695-697.	0.5	3

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55	Deformation and breakup of a liquid film under the action of thermocapillary convection. Journal of Applied Mechanics and Technical Physics, 1987, 28, 399-403.	0.5	4
56	Magnetic properties of ferrocolloids: The effect of interparticle interactions. Journal of Magnetism and Magnetic Materials, 1987, 65, 269-272.	2.3	56
57	A method of simultaneous measurement of the solet and diffusion coefficients of liquid solutions. Journal of Engineering Physics, 1983, 44, 529-533.	0.0	3
58	Deformation of the free surface of a liquid by thermocapillary motion. Fluid Dynamics, 1983, 18, 463-465.	0.9	14
59	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.	0.5	0
60	Free convection of a liquid binary mixture in an inclined rectangular cavity. Fluid Dynamics, 1980, 14, 619-622.	0.9	3
61	Convective oscillations in interconnected containers. Fluid Dynamics, 1976, 9, 506-510.	0.9	0