Dmitry Zablotsky

List of Publications by Year
in descending order

26	268	933447 10	940533 16
papers	citations	h-index	g-index

26	26	26	219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optothermal grid activation of microflow with magnetic nanoparticle thermophoresis for microfluidics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200310.	3.4	2
2	Effect of an excess of surfactant on thermophoresis, mass diffusion and viscosity in an oily surfactant-stabilized ferrofluid. European Physical Journal E, 2022, 45, 43.	1.6	1
3	Optofluidic microconvection with magnetic nanoparticles: Novel interaction of thermal diffusion and magnetic field. International Journal of Heat and Mass Transfer, 2021, 164, 120552.	4.8	5
4	Antimicrobial activity of hybrid organicâ€“inorganic coreâ€“shell magnetic nanocomposites. , 2021, , 501-527.		1
5	Magnetic field control of gas-liquid mass transfer in ferrofluids. Journal of Magnetism and Magnetic Materials, 2020, 497, 165958.	2.3	13
6	Role of Intrinsic Dipoles in the Evaporationâ€Driven Assembly of Perovskite Nanocubes into Energyâ€Harvesting Composites. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900533.	1.8	2
7	Role of Intrinsic Dipoles in the Evaporationâ€Driven Assembly of Perovskite Nanocubes into Energyâ€Harvesting Composites. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2070024.	1.8	0
8	Features of magnetorheology of biocompatible chain-forming ferrofluids with multi-core magnetic nanoparticles: Experiment and simulation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125079.	4.7	18
9	Relating magnetization, structure and rheology in ferrofluids with multi-core magnetic nanoparticles. Journal of Non-Newtonian Fluid Mechanics, 2020, 278, 104248.	2.4	19
10	Manifestation of dipole-induced disorder in self-assembly of ferroelectric and ferromagnetic nanocubes. Nanoscale, 2019, 11, 7293-7303.	5.6	10
11	Field effect in the viscosity of magnetic colloids studied by multi-particle collision dynamics. Journal of Magnetism and Magnetic Materials, 2019, 474, 462-466.	2.3	14
12	Iron oxide/oleic acid magnetic nanoparticles possessing biologically active choline derivatives. , 2018, , 279-316.		2
13	Self-assembly and rheology of dipolar colloids in simple shear studied using multi-particle collision dynamics. Soft Matter, 2017, 13, 6474-6489.	2.7	12
14	Iron oxide superparamagnetic nanocarriers bearing amphiphilic Nâ€heterocyclic choline analogues as potential antimicrobial agents. Applied Organometallic Chemistry, 2015, 29, 376-383.	3.5	11
15	Numerical investigation of thermo-magneto-solutal flow of ferrocolloid through ordered and disordered permeable membranes. European Physical Journal E, 2015, 38, 122.	1.6	2
16	Formation of magnetoconvection by photoabsorptive methods in ferrofluid layers. Comptes Rendus - Mecanique, 2013, 341, 449-454.	2.1	7
17	Dynamics of concentration profiles of nano-sized magnetic particles in a non-uniform magnetic field. Magnetohydrodynamics, 2012, 48, 445-450.	0.3	3
18	Numerical investigation of optically induced microconvection in thin ferrofluid layers. Journal of Magnetism and Magnetic Materials, 2011, 323, 1338-1342.	2.3	5

#	Article	IF	Citations
19	Relaxation mechanisms of photoinduced periodic microstructures in ferrofluid layers. Physical Review E, 2011, 84, 066305.	2.1	5
20	Magnetically driven microconvective instability of optically induced concentration grating in ferrofluids. Physical Review E, 2011, 84, 026319.	2.1	6
21	Preparation and cytotoxic properties of goethiteâ€based nanoparticles covered with decyldimethyl(dimethylaminoethoxy) silane methiodide. Applied Organometallic Chemistry, 2010, 24, 193-197.	3.5	9
22	Surface cooling based on the thermomagnetic convection: Numerical simulation and experiment. International Journal of Heat and Mass Transfer, 2009, 52, 5302-5308.	4.8	59
23	Water-soluble magnetic nanoparticles with biologically active stabilizers. Journal of Magnetism and Magnetic Materials, 2009, 321, 1428-1432.	2.3	16
24	Synthesis, physicoâ€chemical and biological study of trialkylsiloxyalkyl amine coated iron oxide/oleic acid magnetic nanoparticles for the treatment of cancer. Applied Organometallic Chemistry, 2008, 22, 82-88.	3.5	16
25	Numerical investigation of thermomagnetic convection in a heated cylinder under the magnetic field of a solenoid. Journal of Physics Condensed Matter, 2008, 20, 204134.	1.8	10
26	Synthesis and characterization of nanoparticles with an iron oxide magnetic core and a biologically active trialkylsilylated aliphatic alkanolamine shell. Journal of Magnetism and Magnetic Materials, 2007, 311, 135-139.	2.3	20