

Victor I Stepanov

List of Publications by Year in descending order

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57
papers

1,675
citations

279798

23
h-index

276875

41
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57
all docs

57
docs citations

57
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance of ferrite nanoparticles: Journal of Magnetism and Magnetic Materials, 1998, 186, 175-187.	2.3	241
2	Ferromagnetic resonance in a suspension of single-domain particles. Physical Review B, 1994, 50, 6250-6259.	3.2	148
3	Static magneto-optical birefringence of size-sorted nanoparticles. European Physical Journal B, 1998, 5, 859-867.	1.5	107
4	Magnetic resonance of nanoparticles in a ferrofluid: evidence of thermofluctuational effects. Journal of Magnetism and Magnetic Materials, 1999, 202, 535-546.	2.3	98
5	Dynamic magnetic hysteresis in single-domain particles with uniaxial anisotropy. Physical Review B, 2010, 82, .	3.2	80
6	Physical aspects of magnetic hyperthermia: Low-frequency ac field absorption in a magnetic colloid. Journal of Magnetism and Magnetic Materials, 2014, 368, 421-427.	2.3	65
7	Frequency dependence and long time relaxation of the susceptibility of the magnetic fluids. Journal of Magnetism and Magnetic Materials, 1993, 122, 176-181.	2.3	59
8	Dynamic hysteresis of a superparamagnetic nanoparticle. Physica B: Condensed Matter, 2004, 343, 262-266.	2.7	52
9	Linear and cubic dynamic susceptibilities of superparamagnetic fine particles. Physical Review B, 1997, 55, 15005-15017.	3.2	51
10	Theory of the Dynamic Susceptibility of Magnetic Fluids. Advances in Chemical Physics, 2007, , 1-30.	0.3	47
11	Rotational viscosity of magnetic fluids: contribution of the Brownian and Néel relaxational processes. Journal of Magnetism and Magnetic Materials, 1993, 122, 196-199.	2.3	46
12	Stochastic resonance and phase shifts in superparamagnetic particles. Physical Review B, 1995, 52, 3493-3498.	3.2	43
13	Nonlinear magnetic stochastic resonance: Noise-strength "constant-force diagrams. Physical Review E, 1997, 56, 6400-6409.	2.1	40
14	Nonlinear Dynamic Susceptibilities and Field-Induced Birefringence in Magnetic Particle Assemblies. Advances in Chemical Physics, 2004, , 419-588.	0.3	35
15	Magnetic properties of biomineral particles produced by bacteria <i>Klebsiella oxytoca</i> . Physics of the Solid State, 2010, 52, 298-305.	0.6	35
16	Absorption of AC field energy in a suspension of magnetic dipoles. Journal of Magnetism and Magnetic Materials, 2008, 320, 2692-2695.	2.3	33
17	Magnetic relaxation in a suspension of antiferromagnetic nanoparticles. Journal of Experimental and Theoretical Physics, 2008, 107, 435-444.	0.9	30
18	Power losses in a suspension of magnetic dipoles under a rotating field. Physical Review E, 2011, 83, 021401.	2.1	30

#	ARTICLE	IF	CITATIONS
19	Dynamic susceptibility of a concentrated ferrofluid: The role of interparticle interactions. <i>Physical Review E</i> , 2019, 100, 032605.	2.1	29
20	Magnetic resonances in ferrofluids: Temperature effects. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 149, 34-37.	2.3	28
21	Dynamic hysteresis of a superparamagnetic nanoparticle at low-to-intermediate frequencies. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 300, e311-e314.	2.3	27
22	Linear and nonlinear superparamagnetic relaxation at high anisotropy barriers. <i>Physical Review B</i> , 2002, 66, .	3.2	26
23	Orientational dynamics of ferrofluids with finite magnetic anisotropy of the particles: Relaxation of magneto-birefringence in crossed fields. <i>Physical Review E</i> , 2002, 66, 021203.	2.1	25
24	Intrinsic magnetic resonance in superparamagnetic systems. <i>Physical Review B</i> , 1995, 51, 16428-16431.	3.2	23
25	Mean-field description of the order-disorder phase transition in ferronematics. <i>Soft Matter</i> , 2013, 9, 177-184.	2.7	23
26	Dynamic optical probing of the magnetic anisotropy of nickel-ferrite nanoparticles. <i>Journal of Applied Physics</i> , 2004, 96, 5226-5233.	2.5	20
27	Dynamic hysteresis of a uniaxial superparamagnet: Semi-adiabatic approximation. <i>Physica B: Condensed Matter</i> , 2014, 435, 58-61.	2.7	20
28	Stochastic resonance in single-domain particles. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 4137-4145.	1.8	19
29	Low-frequency dynamics of the orientational birefringence in a suspension of dipolar particles. <i>Journal of Colloid and Interface Science</i> , 1991, 144, 308-314.	9.4	18
30	Transient field-induced birefringence in a ferronematic. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 201, 182-185.	2.3	18
31	Noise- and Force-Induced Resonances in Noisy Rotary Oscillations of Classical Spins. <i>Physical Review Letters</i> , 2001, 86, 1923-1926.	7.8	18
32	Stochastic resonance in a superparamagnetic particle. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 258-259, 369-371.	2.3	17
33	Dynamic Magneto-Optical Response of Ferronematic Liquid Crystals. <i>Journal of Intelligent Material Systems and Structures</i> , 1996, 7, 550-554.	2.5	14
34	Energy absorption by a magnetic nanoparticle suspension in a rotating field. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 112, 173-177.	0.9	12
35	Dynamic Birefringence in Magnetic Fluids. The Effect of Mechanical and Magnetic Degrees of Freedom of the Particles. <i>Europhysics Letters</i> , 1995, 32, 589-594.	2.0	9
36	Magnetization dynamics of single-domain particles by superparamagnetic theory. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 417-421.	2.3	9

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37	Magneto-orientational behavior of a suspension of antiferromagnetic particles. Journal of Physics Condensed Matter, 2008, 20, 204120.	1.8	9
38	Magnetic relaxation in ferronematics in the mean-field description. Journal of Molecular Liquids, 2018, 267, 367-376.	4.9	9
39	Magnetoviscosity and relaxation in magnetic fluids. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 443-445.	2.3	8
40	Non-linear dynamic response of superparamagnetic nanoparticles. Microelectronic Engineering, 2003, 69, 317-323.	2.4	7
41	Temperature dependence of the coefficient of reflection of microwave radiation from a magnetic fluid layer. Technical Physics, 2006, 51, 1520-1523.	0.7	7
42	Intrinsic magnetic resonance in nanoparticles: Landau damping in the collisionless regime. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 1021-1023.	2.3	6
43	Orientational dynamics in magnetic fluids under strong coupling of external and internal relaxations. Journal of Magnetism and Magnetic Materials, 2005, 289, 222-225.	2.3	6
44	Title is missing!. Colloid Journal, 2003, 65, 65-77.	1.3	4
45	Theory of Magneto-Inductive Hyperthermia Under a Rotating Field. , 2010, , .		4
46	Ferromagnetic resonance in a dilute suspension of uniaxial superparamagnetic particles. Journal of Magnetism and Magnetic Materials, 2017, 424, 185-188.	2.3	4
47	Nonlinear susceptibilities of superparamagnetic fine particles. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 88-90.	2.3	2
48	Noise-Induced Resonances in Superparamagnetic Particles. Materials Science Forum, 2001, 373-376, 125-128.	0.3	2
49	Noise- and force-induced resonances of magnetization and orientation in superparamagnetic systems. Journal of Magnetism and Magnetic Materials, 2002, 252, 129-131.	2.3	2
50	Dynamic birefringence in magnetic fluids with allowance for mechanical and magnetic degrees of freedom of the particles. Journal of Magnetism and Magnetic Materials, 2002, 252, 180-182.	2.3	2
51	Non-linear susceptibilities of magnetic fluids and solid superparamagnets. Journal of Molecular Liquids, 2004, 114, 137-145.	4.9	2
52	Superparamagnetic effect in the rotatable anisotropy of nanoparticles and films. Journal of Magnetism and Magnetic Materials, 2017, 440, 192-195.	2.3	2
53	Selective suppression of the higher harmonics of magnetization in a superparamagnetic system. Physics of the Solid State, 2001, 43, 279-283.	0.6	1
54	Nonlinear magnetodynamics of a single-domain particle: the high-barrier approximation. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1277-E1278.	2.3	1

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55	Magnetization of a superparamagnet measured under temperature-sweep in zero and field cooled states. Journal of Magnetism and Magnetic Materials, 2007, 316, 348-350.	2.3	1
56	Dynamic hysteresis in an anisotropic superparamagnet. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1443-1445.	0.6	1
57	Dynamic behavior of dilute colloid of magnetic holes. Journal of Magnetism and Magnetic Materials, 2006, 300, e239-e242.	2.3	0