

# Taras Lyutyy

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

319  
citations

933264

10  
h-index

839398

18  
g-index

28  
all docs

28  
docs citations

28  
times ranked

213  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. <i>Physical Review B</i> , 2006, 74, .	1.1	57
2	Magnetization of Nanoparticle Systems in a Rotating Magnetic Field. <i>Physical Review Letters</i> , 2006, 97, 227202.	2.9	45
3	Magnetic relaxation in finite two-dimensional nanoparticle ensembles. <i>Physical Review B</i> , 2003, 67, .	1.1	33
4	Energy dissipation in single-domain ferromagnetic nanoparticles: Dynamical approach. <i>Physical Review B</i> , 2015, 91, .	1.1	23
5	Resonant suppression of thermal stability of the nanoparticle magnetization by a rotating magnetic field. <i>Physical Review B</i> , 2011, 84, .	1.1	18
6	Rotational properties of ferromagnetic nanoparticles driven by a precessing magnetic field in a viscous fluid. <i>Physical Review E</i> , 2015, 92, 042312.	0.8	18
7	Large-scale ferrofluid simulations on graphics processing units. <i>Computer Physics Communications</i> , 2013, 184, 1483-1489.	3.0	15
8	Power loss for a periodically driven ferromagnetic nanoparticle in a viscous fluid: The finite anisotropy aspects. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 446, 87-94.	1.0	15
9	Energy dissipation of rigid dipoles in a viscous fluid under the action of a time-periodic field: The influence of thermal bath and dipole interaction. <i>Physical Review E</i> , 2018, 97, 052611.	0.8	13
10	Induced magnetization and power loss for a periodically driven system of ferromagnetic nanoparticles with randomly oriented easy axes. <i>Physical Review B</i> , 2016, 94, .	1.1	11
11	Switching properties of ferromagnetic nanoparticles driven by a circularly polarized magnetic field. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 396002.	0.7	10
12	Phase diagrams for the precession states of the nanoparticle magnetization in a rotating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1360-1362.	1.0	10
13	Temperature effects on drift of suspended single-domain particles induced by the Magnus force. <i>Physical Review E</i> , 2018, 97, 032608.	0.8	10
14	Uniform and nonuniform precession of a nanoparticle with finite anisotropy in a liquid: Opportunities and limitations for magnetic fluid hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 198-204.	1.0	8
15	Eddy current effects in the magnetization dynamics of ferromagnetic metal nanoparticles. <i>Journal of Applied Physics</i> , 2014, 116, 043911.	1.1	7
16	Dissipation-induced rotation of suspended ferromagnetic nanoparticles. <i>Physical Review B</i> , 2019, 100, .	1.1	7
17	Directed transport in periodically rocked random sawtooth potentials. <i>Physical Review E</i> , 2009, 79, 051102.	0.8	5
18	Directed transport of suspended ferromagnetic nanoparticles under both gradient and uniform magnetic fields. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 405001.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Dipolar interaction effects on the thermally activated magnetic relaxation of two-dimensional nanoparticle ensembles. <i>Applied Physics Letters</i> , 2004, 84, 4672-4674.	1.5	3
20	Microwave absorption by a rigid dipole in a viscous fluid. , 2016, , .		3
21	Precession of a Fine Magnetic Particle with Finite Anisotropy in a Viscous Fluid. <i>Journal of Nano- and Electronic Physics</i> , 2016, 8, 04086-1-04086-5.	0.2	2
22	Dynamics and energy dissipation of a rigid dipole driven by the RF-field in a viscous fluid: Deterministic approach. <i>European Physical Journal E</i> , 2018, 41, 142.	0.7	1
23	Drift of suspended single-domain nanoparticles in a harmonically oscillating gradient magnetic field. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 045001.	1.3	1
24	Thermal decay of the magnetization in two-dimensional nanoparticle ensembles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 665-666.	1.0	0
25	Forced coupled motion of the nanoparticle magnetic moment and the whole nanoparticle in a viscous fluid. , 2017, , .		0
26	Energy dissipation of interacting rigid dipoles driven by the RF-field in a viscous fluid. , 2017, , .		0
27	Oscillatory Magnetic Dynamics of a Nanoparticle Driven by an External field and Spin-polarized Current. <i>Journal of Nano- and Electronic Physics</i> , 2018, 10, 05033-1-05033-5.	0.2	0
28	Forced Precession of a Ferromagnetic Nanoparticle with a Finite Anisotropy Suspended in a Liquid: Nonlinear Aspects. <i>Journal of Nano- and Electronic Physics</i> , 2019, 11, 05021-1-05021-5.	0.2	0