

Taras Lyutytyy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

23
papers

273
citations

10
h-index

16
g-index

28
ext. papers

303
ext. citations

2.7
avg, IF

3.22
L-index

#	Paper	IF	Citations
23	Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. <i>Physical Review B</i> , 2006 , 74,	3.3	53
22	Magnetization of nanoparticle systems in a rotating magnetic field. <i>Physical Review Letters</i> , 2006 , 97, 227202	7.4	40
21	Magnetic relaxation in finite two-dimensional nanoparticle ensembles. <i>Physical Review B</i> , 2003 , 67,	3.3	33
20	Energy dissipation in single-domain ferromagnetic nanoparticles: Dynamical approach. <i>Physical Review B</i> , 2015 , 91,	3.3	19
19	Resonant suppression of thermal stability of the nanoparticle magnetization by a rotating magnetic field. <i>Physical Review B</i> , 2011 , 84,	3.3	17
18	Rotational properties of ferromagnetic nanoparticles driven by a precessing magnetic field in a viscous fluid. <i>Physical Review E</i> , 2015 , 92, 042312	2.4	15
17	Large-scale ferrofluid simulations on graphics processing units. <i>Computer Physics Communications</i> , 2013 , 184, 1483-1489	4.2	12
16	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	2.8	10
15	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	2.8	10
14	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,	3.3	10
13	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	2.4	10
12	Temperature effects on drift of suspended single-domain particles induced by the Magnus force. <i>Physical Review E</i> , 2018 , 97, 032608	2.4	8
11	Switching properties of ferromagnetic nanoparticles driven by a circularly polarized magnetic field. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 396002	1.8	8
10	Eddy current effects in the magnetization dynamics of ferromagnetic metal nanoparticles. <i>Journal of Applied Physics</i> , 2014 , 116, 043911	2.5	7
9	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	2.8	6
8	Directed transport in periodically rocked random sawtooth potentials. <i>Physical Review E</i> , 2009 , 79, 051102	2.4	5
7	Dissipation-induced rotation of suspended ferromagnetic nanoparticles. <i>Physical Review B</i> , 2019 , 100,	3.3	3

6	Dipolar interaction effects on the thermally activated magnetic relaxation of two-dimensional nanoparticle ensembles. <i>Applied Physics Letters</i> , 2004 , 84, 4672-4674	3.4	3
5	Directed transport of suspended ferromagnetic nanoparticles under both gradient and uniform magnetic fields. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 405001	3	2
4	Microwave absorption by a rigid dipole in a viscous fluid 2016 ,		1
3	Drift of suspended single-domain nanoparticles in a harmonically oscillating gradient magnetic field. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 045001	3	0
2	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	1.5	0
1	Thermal decay of the magnetization in two-dimensional nanoparticle ensembles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 665-666	2.8	