

# Taras Lyutytyy

## List of Publications by Year in Descending Order

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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 | Drift of suspended single-domain nanoparticles in a harmonically oscillating gradient magnetic field. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 045001   | 3   | 0         |
| 22 | Directed transport of suspended ferromagnetic nanoparticles under both gradient and uniform magnetic fields. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 405001  | 3   | 2         |
| 21 | Dissipation-induced rotation of suspended ferromagnetic nanoparticles. <i>Physical Review B</i> , <b>2019</b> , 100,   | 3.3 | 3         |
| 20 | 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> , <b>2019</b> , 473, 198-204 | 2.8 | 6         |
| 19 | Temperature effects on drift of suspended single-domain particles induced by the Magnus force. <i>Physical Review E</i> , <b>2018</b> , 97, 032608   | 2.4 | 8         |
| 18 | Power loss for a periodically driven ferromagnetic nanoparticle in a viscous fluid: The finite anisotropy aspects. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 446, 87-94                                       | 2.8 | 10        |
| 17 | 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> , <b>2018</b> , 41, 142  | 1.5 | 0         |
| 16 | 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> , <b>2018</b> , 97, 052611                            | 2.4 | 10        |
| 15 | Microwave absorption by a rigid dipole in a viscous fluid <b>2016</b> ,  |     | 1         |
| 14 | Induced magnetization and power loss for a periodically driven system of ferromagnetic nanoparticles with randomly oriented easy axes. <i>Physical Review B</i> , <b>2016</b> , 94,  | 3.3 | 10        |
| 13 | Energy dissipation in single-domain ferromagnetic nanoparticles: Dynamical approach. <i>Physical Review B</i> , <b>2015</b> , 91,  | 3.3 | 19        |
| 12 | Rotational properties of ferromagnetic nanoparticles driven by a precessing magnetic field in a viscous fluid. <i>Physical Review E</i> , <b>2015</b> , 92, 042312   | 2.4 | 15        |
| 11 | Eddy current effects in the magnetization dynamics of ferromagnetic metal nanoparticles. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 043911   | 2.5 | 7         |
| 10 | Large-scale ferrofluid simulations on graphics processing units. <i>Computer Physics Communications</i> , <b>2013</b> , 184, 1483-1489   | 4.2 | 12        |
| 9  | Resonant suppression of thermal stability of the nanoparticle magnetization by a rotating magnetic field. <i>Physical Review B</i> , <b>2011</b> , 84,   | 3.3 | 17        |
| 8  | Phase diagrams for the precession states of the nanoparticle magnetization in a rotating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 1360-1362   | 2.8 | 10        |
| 7  | Directed transport in periodically rocked random sawtooth potentials. <i>Physical Review E</i> , <b>2009</b> , 79, 0511024   |     | 5         |

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|---|--|-----|----|
| 6 | Switching properties of ferromagnetic nanoparticles driven by a circularly polarized magnetic field. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 396002         | 1.8 | 8  |
| 5 | Magnetization of nanoparticle systems in a rotating magnetic field. <i>Physical Review Letters</i> , <b>2006</b> , 97, 227202  | 7.4 | 40 |
| 4 | Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. <i>Physical Review B</i> , <b>2006</b> , 74,  | 3.3 | 53 |
| 3 | Dipolar interaction effects on the thermally activated magnetic relaxation of two-dimensional nanoparticle ensembles. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4672-4674 | 3.4 | 3  |
| 2 | Thermal decay of the magnetization in two-dimensional nanoparticle ensembles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 665-666                  | 2.8 |    |
| 1 | Magnetic relaxation in finite two-dimensional nanoparticle ensembles. <i>Physical Review B</i> , <b>2003</b> , 67,   | 3.3 | 33 |