

Jonathan Leliaert

List of Publications by Year in Descending Order

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Version: 2024-04-19

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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.

38
papers

2,065
citations

14
h-index

43
g-index

43
ext. papers

2,671
ext. citations

4.4
avg. IF

5
L-index

#	Paper	IF	Citations
38	Magnetic nanoparticles in theranostic applications. <i>Journal of Applied Physics</i> , 2022 , 131, 160902	2.5	3
37	Unraveling Nanostructured Spin Textures in Bulk Magnets. <i>Small Science</i> , 2021 , 1, 2000003		2
36	Advanced analysis of magnetic nanoflower measurements to leverage their use in biomedicine. <i>Nanoscale Advances</i> , 2021 , 3, 1633-1645	5.1	6
35	Noise Power Properties of Magnetic Nanoparticles as Measured in Thermal Noise Magnetometry. <i>IEEE Access</i> , 2021 , 9, 111505-111517	3.5	2
34	Confined magnetoelastic waves in thin waveguides. <i>Physical Review B</i> , 2021 , 103,	3.3	4
33	Magnetic anisotropy of individual maghemite mesocrystals. <i>Physical Review B</i> , 2021 , 103,	3.3	5
32	Individual particle heating of interacting magnetic nanoparticles at nonzero temperature. <i>Nanoscale</i> , 2021 , 13, 14734-14744	7.7	1
31	The role of temperature and drive current in skyrmion dynamics. <i>Nature Electronics</i> , 2020 , 3, 30-36	28.4	41
30	Direct observation of temperature dependent vortex dynamics in a La _{0.7} Sr _{0.3} MnO ₃ micromagnet. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
29	Simultaneous Coercivity and Size Determination of Magnetic Nanoparticles. <i>Sensors</i> , 2020 , 20,	3.8	5
28	Tomorrow's micromagnetic simulations. <i>Journal of Applied Physics</i> , 2019 , 125, 180901	2.5	32
27	Design of Intense Nanoscale Stray Fields and Gradients at Magnetic Nanorod Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4678-4685	9.5	7
26	Coupling of the skyrmion velocity to its breathing mode in periodically notched nanotracks. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 024003	3	7
25	Dynamical Magnetic Response of Iron Oxide Nanoparticles Inside Live Cells. <i>ACS Nano</i> , 2018 , 12, 2741-2752	15.7	85
24	Balanced Magnetic Logic Gates in a Kagome Spin Ice. <i>Physical Review Applied</i> , 2018 , 9,	4.3	18
23	Fast micromagnetic simulations on GPU: recent advances made with μmax^3 . <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 123002	3	56
22	Effect of boundary-induced chirality on magnetic textures in thin films. <i>Physical Review B</i> , 2018 , 98,	3.3	8

21	Sensor fusion of electron paramagnetic resonance and magnetorelaxometry data for quantitative magnetic nanoparticle imaging. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 085008	3	
20	The complementarity and similarity of magnetorelaxometry and thermal magnetic noise spectroscopy for magnetic nanoparticle characterization. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 085004	3	7
19	Multi-color magnetic nanoparticle imaging using magnetorelaxometry. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3139-3157	3.8	16
18	Interpreting the magnetorelaxometry signal of suspended magnetic nanoparticles with Kaczmarz algorithm. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 195002	3	9
17	Modelling compensated antiferromagnetic interfaces with MuMax3. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 425002	3	6
16	Field-driven chiral bubble dynamics analysed by a semi-analytical approach. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 495007	3	2
15	The effect of the magnetic nanoparticle size dependence of the relaxation time constant on the specific loss power of magnetic nanoparticle hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 426, 206-210	2.8	12
14	Adaptively time stepping the stochastic Landau-Lifshitz-Gilbert equation at nonzero temperature: Implementation and validation in MuMax3. <i>AIP Advances</i> , 2017 , 7, 125010	1.5	39
13	Creep turns linear in narrow ferromagnetic nanostrips. <i>Scientific Reports</i> , 2016 , 6, 20472	4.9	10
12	Electric-field-driven dynamics of magnetic domain walls in magnetic nanowires patterned on ferroelectric domains. <i>New Journal of Physics</i> , 2016 , 18, 033027	2.9	7
11	Vinamax: a macrospin simulation tool for magnetic nanoparticles. <i>Medical and Biological Engineering and Computing</i> , 2015 , 53, 309-17	3.1	16
10	Thermal effects on transverse domain wall dynamics in magnetic nanowires. <i>Applied Physics Letters</i> , 2015 , 106, 202401	3.4	14
9	Quantitative model selection for enhanced magnetic nanoparticle imaging in magnetorelaxometry. <i>Medical Physics</i> , 2015 , 42, 6853-62	4.4	10
8	Toward 2D and 3D imaging of magnetic nanoparticles using EPR measurements. <i>Medical Physics</i> , 2015 , 42, 5007-14	4.4	6
7	Thermal magnetic noise spectra of nanoparticle ensembles. <i>Applied Physics Letters</i> , 2015 , 107, 222401	3.4	12
6	A numerical approach to incorporate intrinsic material defects in micromagnetic simulations. <i>Journal of Applied Physics</i> , 2014 , 115, 17D102	2.5	25
5	Influence of material defects on current-driven vortex domain wall mobility. <i>Physical Review B</i> , 2014 , 89,	3.3	18
4	The design and verification of MuMax3. <i>AIP Advances</i> , 2014 , 4, 107133	1.5	1509

- 3 Current-driven domain wall mobility in polycrystalline Permalloy nanowires: A numerical study. *Journal of Applied Physics*, **2014**, 115, 233903 2.5 40
- 2 Regarding the Néel relaxation time constant in magnetorelaxometry. *Journal of Applied Physics*, **2014**, 116, 163914 2.5 17
- 1 Finite difference magnetoelastic simulator. *Open Research Europe*, 1, 35 5