

Roberto Zivieri

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

650
citations

8
h-index

25
g-index

31
ext. papers

833
ext. citations

2.9
avg, IF

3.95
L-index

#	Paper	IF	Citations
23	A strategy for the design of skyrmion racetrack memories. <i>Scientific Reports</i> , 2014 , 4, 6784	4.9	484
22	Combined Frequency-Amplitude Nonlinear Modulation: Theory and Applications. <i>IEEE Transactions on Magnetism</i> , 2010 , 46, 3629-3634	2	38
21	Spin-Hall nano-oscillator with oblique magnetization and Dzyaloshinskii-Moriya interaction as generator of skyrmions and nonreciprocal spin-waves. <i>Scientific Reports</i> , 2016 , 6, 36020	4.9	25
20	Magnetic properties of submicron circular permalloy dots. <i>IEEE Transactions on Magnetism</i> , 2002 , 38, 2532-2534	20	
19	Rate of entropy model for irreversible processes in living systems. <i>Scientific Reports</i> , 2017 , 7, 9134	4.9	18
18	Micromagnetic understanding of the skyrmion Hall angle current dependence in perpendicularly magnetized ferromagnets. <i>Physical Review B</i> , 2018 , 98,	3.3	12
17	Configurational entropy of magnetic skyrmions as an ideal gas. <i>Physical Review B</i> , 2019 , 99,	3.3	11
16	Analytical and numerical solution to the nonlinear cubic Duffing equation: An application to electrical signal analysis of distribution lines. <i>Applied Mathematical Modelling</i> , 2016 , 40, 9152-9164	4.5	9
15	Bandgaps and Demagnetizing Effects in a Py/Co Magnonic Crystal. <i>IEEE Transactions on Magnetism</i> , 2014 , 50, 1-4	2	5
14	Statistical Thermodynamics of Chiral Skyrmions in a Ferromagnetic Material. <i>Materials</i> , 2019 , 12,	3.5	5
13	Statistical Properties and Configurational Entropy of a Two-Dimensional Nbl Magnetic Skyrmions Population. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 352	2.6	4
12	Theory of nonreciprocal spin-wave excitations in spin Hall oscillators with Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2018 , 97,	3.3	4
11	Wave amplitude decay driven by anharmonic potential in nonlinear mass-in-mass systems. <i>Applied Physics Letters</i> , 2020 , 117, 124101	3.4	4
10	Entropy Density Acceleration and Minimum Dissipation Principle: Correlation with Heat and Matter Transfer in Glucose Catabolism. <i>Entropy</i> , 2018 , 20,	2.8	4
9	Is an Entropy-Based Approach Suitable for an Understanding of the Metabolic Pathways of Fermentation and Respiration?. <i>Entropy</i> , 2017 , 19, 662	2.8	3
8	Seasonal signal analysis of distribution lines in smart grids via Hilbert-Huang transform 2015 ,		1
7	Nanowire Spin-Torque Oscillator With Non-Uniform Polarizer: A Micromagnetic Study. <i>IEEE Transactions on Magnetism</i> , 2014 , 50, 1-4	2	1

6	A strategy for the design of skyrmion racetrack memories		1
5	Static properties of magnetic skyrmions 2021 , 181-231		1
4	Absence of Spontaneous Spin Symmetry Breaking in 1D and 2D Quantum Ferromagnetic Systems with Bilinear and Biquadratic Exchange Interactions. <i>Symmetry</i> , 2020 , 12, 2061	2.7	0
3	Magnetic Skyrmions as Information Entropy Carriers. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	0
2	Critical behavior of the classical spin-1 Ising model for magnetic systems. <i>AIP Advances</i> , 2022 , 12, 035326	1.5	0
1	Low-Dimensional Magnetic Systems. <i>Advances in Condensed Matter Physics</i> , 2012 , 2012, 1-1		1