

# Roberto Zivieri

## 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

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	Critical behavior of the classical spin-1 Ising model for magnetic systems. <i>AIP Advances</i> , <b>2022</b> , 12, 035326	1.5	0
22	Magnetic Skyrmions as Information Entropy Carriers. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 1-1	2	0
21	Static properties of magnetic skyrmions <b>2021</b> , 181-231		1
20	Absence of Spontaneous Spin Symmetry Breaking in 1D and 2D Quantum Ferromagnetic Systems with Bilinear and Biquadratic Exchange Interactions. <i>Symmetry</i> , <b>2020</b> , 12, 2061	2.7	0
19	Statistical Properties and Configurational Entropy of a Two-Dimensional NBL Magnetic Skyrmions Population. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 352	2.6	4
18	Wave amplitude decay driven by anharmonic potential in nonlinear mass-in-mass systems. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 124101	3.4	4
17	Configurational entropy of magnetic skyrmions as an ideal gas. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
16	Statistical Thermodynamics of Chiral Skyrmions in a Ferromagnetic Material. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
15	Theory of nonreciprocal spin-wave excitations in spin Hall oscillators with Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
14	Micromagnetic understanding of the skyrmion Hall angle current dependence in perpendicularly magnetized ferromagnets. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	12
13	Entropy Density Acceleration and Minimum Dissipation Principle: Correlation with Heat and Matter Transfer in Glucose Catabolism. <i>Entropy</i> , <b>2018</b> , 20,	2.8	4
12	Is an Entropy-Based Approach Suitable for an Understanding of the Metabolic Pathways of Fermentation and Respiration?. <i>Entropy</i> , <b>2017</b> , 19, 662	2.8	3
11	Rate of entropy model for irreversible processes in living systems. <i>Scientific Reports</i> , <b>2017</b> , 7, 9134	4.9	18
10	Analytical and numerical solution to the nonlinear cubic Duffing equation: An application to electrical signal analysis of distribution lines. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 9152-9164	4.5	9
9	Spin-Hall nano-oscillator with oblique magnetization and Dzyaloshinskii-Moriya interaction as generator of skyrmions and nonreciprocal spin-waves. <i>Scientific Reports</i> , <b>2016</b> , 6, 36020	4.9	25
8	Seasonal signal analysis of distribution lines in smart grids via Hilbert-Huang transform <b>2015</b> ,		1
7	A strategy for the design of skyrmion racetrack memories. <i>Scientific Reports</i> , <b>2014</b> , 4, 6784	4.9	484

6	Bandgaps and Demagnetizing Effects in a Py/Co Magnonic Crystal. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	5
5	Nanowire Spin-Torque Oscillator With Non-Uniform Polarizer: A Micromagnetic Study. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	1
4	Low-Dimensional Magnetic Systems. <i>Advances in Condensed Matter Physics</i> , <b>2012</b> , 2012, 1-1	1	
3	Combined Frequency-Amplitude Nonlinear Modulation: Theory and Applications. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 3629-3634	2	38
2	Magnetic properties of submicron circular permalloy dots. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 2532-2534	20	
1	A strategy for the design of skyrmion racetrack memories		1