

# Roberto Zivieri

## List of Publications by Year in descending order

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30  
papers

945  
citations

932766

10  
h-index

676716

22  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1367  
citing authors

#	ARTICLE	IF	CITATIONS
1	A strategy for the design of skyrmion racetrack memories. Scientific Reports, 2014, 4, 6784.	1.6	689
2	Combined Frequency-Amplitude Nonlinear Modulation: Theory and Applications. IEEE Transactions on Magnetism, 2010, 46, 3629-3634.	1.2	41
3	Spin-Hall nano-oscillator with oblique magnetization and Dzyaloshinskii-Moriya interaction as generator of skyrmions and nonreciprocal spin-waves. Scientific Reports, 2016, 6, 36020.	1.6	38
4	Rate of entropy model for irreversible processes in living systems. Scientific Reports, 2017, 7, 9134.	1.6	24
5	Magnetic properties of submicron circular permalloy dots. IEEE Transactions on Magnetism, 2002, 38, 2532-2534.	1.2	22
6	Configurational entropy of magnetic skyrmions as an ideal gas. Physical Review B, 2019, 99, .	1.1	17
7	Micromagnetic understanding of the skyrmion Hall angle current dependence in perpendicularly magnetized ferromagnets. Physical Review B, 2018, 98, .	1.1	16
8	Analytical and numerical solution to the nonlinear cubic Duffing equation: An application to electrical signal analysis of distribution lines. Applied Mathematical Modelling, 2016, 40, 9152-9164.	2.2	14
9	Wave amplitude decay driven by anharmonic potential in nonlinear mass-in-mass systems. Applied Physics Letters, 2020, 117, 124101.	1.5	14
10	Is an Entropy-Based Approach Suitable for an Understanding of the Metabolic Pathways of Fermentation and Respiration?. Entropy, 2017, 19, 662.	1.1	10
11	Statistical Thermodynamics of Chiral Skyrmions in a Ferromagnetic Material. Materials, 2019, 12, 3702.	1.3	9
12	Entropy Density Acceleration and Minimum Dissipation Principle: Correlation with Heat and Matter Transfer in Glucose Catabolism. Entropy, 2018, 20, 929.	1.1	7
13	Bandgaps and Demagnetizing Effects in a Py/Co Magnonic Crystal. IEEE Transactions on Magnetism, 2014, 50, 1-4.	1.2	6
14	Statistical Properties and Configurational Entropy of a Two-Dimensional Néel Magnetic Skyrmions Population. Applied Sciences (Switzerland), 2020, 10, 352.	1.3	6
15	Theory of nonreciprocal spin-wave excitations in spin Hall oscillators with Dzyaloshinskii-Moriya interaction. Physical Review B, 2018, 97, .	1.1	5
16	Absence of Spontaneous Spin Symmetry Breaking in 1D and 2D Quantum Ferromagnetic Systems with Bilinear and Biquadratic Exchange Interactions. Symmetry, 2020, 12, 2061.	1.1	5
17	Magnetic Skyrmions as Information Entropy Carriers. IEEE Transactions on Magnetism, 2022, 58, 1-5.	1.2	5
18	Critical behavior of the classical spin-1 Ising model for magnetic systems. AIP Advances, 2022, 12, 035326.	0.6	3

#	ARTICLE	IF	CITATIONS
19	Seasonal signal analysis of distribution lines in smart grids via Hilbert-Huang transform. , 2015, , .		2
20	Static properties of magnetic skyrmions. , 2021, , 181-231.		2
21	Topological Spin Textures and Their Applications. Magnetism, 2021, 1, 58-59.	0.6	2
22	From Thermodynamics to Information: Landauer's Limit and Negentropy Principle Applied to Magnetic Skyrmions. Frontiers in Physics, 2022, 10, .	1.0	2
23	On negative effective mass and negative group velocity in anharmonic seismic metamaterials. EPJ Applied Metamaterials, 2022, 9, 10.	0.8	2
24	Nanowire Spin-Torque Oscillator With Non-Uniform Polarizer: A Micromagnetic Study. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	1
25	A strategy for the design of skyrmion racetrack memories. , 0, .		1
26	Dynamical Properties of a Periodic Mass-Spring Nonlinear Seismic Metamaterial. , 2020, , .		1
27	Low-Dimensional Magnetic Systems. Advances in Condensed Matter Physics, 2012, 2012, 1-1.	0.4	0
28	Topological skyrmion dynamics driven by spin-transfer torque. , 2015, , .		0
29	Effect of Indolic-Amide Melatonin on Blood Cell Population: A Biophysical Gaussian Statistical Analysis. Molecules, 2018, 23, 1378.	1.7	0
30	Entropy for the Brain and Applied Computation. Entropy, 2021, 23, 1639.	1.1	0