Salvatore Perna

List of Publications by Year in descending order

25 papers	142 citations	1478505 6 h-index	1281871 11 g-index
26 all docs	26 docs citations	26 times ranked	191 citing authors

#	Article	IF	Citations
1	Magnetization reversal driven by low dimensional chaos in a nanoscale ferromagnet. Nature Communications, 2019, 10, 543.	12.8	27
2	Magnetization switching in the inertial regime. Physical Review B, 2022, 105, .	3.2	20
3	Computational micromagnetics based on normal modes: Bridging the gap between macrospin and full spatial discretization. Journal of Magnetism and Magnetic Materials, 2022, 546, 168683.	2.3	13
4	Analytical solution of precessional switching in nanomagnets driven by hard-axis field pulses. Physica B: Condensed Matter, 2016, 486, 126-129.	2.7	8
5	Large Hysteresis effect in Synchronization of Nanocontact Vortex Oscillators by Microwave Fields. Scientific Reports, 2016, 6, 31630.	3.3	7
6	Noise-induced bifurcations in magnetization dynamics of uniaxial nanomagnets. Journal of Applied Physics, 2015, 117, .	2.5	6
7	Heteroclinic tangle phenomena in nanomagnets subject to time-harmonic excitations. Journal of Applied Physics, 2015, 117, .	2.5	6
8	Analytical Treatment of Nonlinear Ferromagnetic Resonance in Nanomagnets. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	6
9	Micromagnetic study of statistical switching in magnetic tunnel junctions stabilized by perpendicular shape anisotropy. Physica B: Condensed Matter, 2020, 577, 411744.	2.7	6
10	Phase-Flow Interpretation of Magnetization Relaxation in Nanomagnets. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	5
11	Analysis of reliable sub-ns spin-torque switching under transverse bias magnetic fields. Journal of Applied Physics, 2015, 117, 17B716.	2.5	5
12	Influence of the Second-Order Uniaxial Anisotropy on the Dynamical Proprieties of Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	5
13	Chaotic dynamics and basin erosion in nanomagnets subject to time-harmonic magnetic fields. Physica B: Condensed Matter, 2016, 486, 121-125.	2.7	4
14	Normal form of nonlinear oscillator model relevant to spin-torque nano-oscillator theory. Physica B: Condensed Matter, 2018, 549, 87-90.	2.7	4
15	Current-Driven Hysteretic Synchronization in Vortex Nanopillar Spin-Transfer Oscillators. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	3
16	Effect of Temperature in Hysteretic Synchronization of Magnetic Vortex Spin-Torque Nano-Oscillators. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	3
17	Numerical Solution of the Fokker-Planck Equation by Spectral Collocation and Finite-Element Methods for Stochastic Magnetization Dynamics. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	3
18	A Local Gauge Description of the Interaction Between Magnetization and Electric Field in a Ferromagnet. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	3

#	Article	IF	Citations
19	Transient Chaos in Nanomagnets Subject to Elliptically Polarized AC Applied Fields. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	2
20	Analysis in k-Space of Magnetization Dynamics Driven by Strong Terahertz Fields. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	2
21	Microstructure Role in Permanent Magnet Eddy Current Losses. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	1
22	Magnetostatic Field Computation in Thin Films Based on k-Space Fast Convolution With Truncated Greenâ€™s Function. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	1
23	Impact of Magneto-Electric Coupling on Metastable Magnetic States in Thin Disks. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
24	Normal modes description of nonlinear ferromagnetic resonance for magnetic nanodots. AIP Advances, 2022, 12, 035244.	1.3	1
25	Analysis of Reliable Ultrafast Precessional Switching in the Presence of Transverse Applied Magnetic Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0