Claudio Serpico

List of Publications by Year
in descending order

		840776	677142
26 papers	**607** citations	**11** h-index	**22** g-index
28 all docs	**28** docs citations	**28** times ranked	**539** citing authors

#	Article	IF	Citations
1	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
2	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
3	Impact of Magneto-Electric Coupling on Metastable Magnetic States in Thin Disks. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
4	Magnetization switching in the inertial regime. Physical Review B, 2022, 105, .	3.2	20
5	Inertial spin dynamics in ferromagnets. Nature Physics, 2021, 17, 245-250.	16.7	78
6	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. Physical Review Letters, 2019, 123, 197204.	7.8	26
7	Magnetization reversal driven by low dimensional chaos in a nanoscale ferromagnet. Nature Communications, 2019, 10, 543.	12.8	27
8	Large scale finite-element simulation of micromagnetic thermal noise. Journal of Magnetism and Magnetic Materials, 2019, 475, 408-414.	2.3	16
9	Magnetization Reversal in Exchange Spring Bilayer System Under Circularly Polarized Microwave Field. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
10	Phase-Flow Interpretation of Magnetization Relaxation in Nanomagnets. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	5
11	Dipolar mode localization and spectral gaps in quasi-periodic arrays of ferromagnetic nanoparticles. Physical Review B, 2009, 79, .	3.2	7
12	Spin-wave analysis of uniaxial nanopillar devices. Journal of Applied Physics, 2009, 105, 07D104.	2.5	7
13	Nonlinear Resonant and Chaotic Dynamics in Microwave Assisted Magnetization Switching. IEEE Transactions on Magnetics, 2009, 45, 3950-3953.	2.1	7
14	A novel formulation for the numerical computation of magnetization modes in complex micromagnetic systems. Journal of Computational Physics, 2009, 228, 6130-6149.	3.8	39
15	Analytical Description of Quasi-Random Magnetization Relaxation to Equilibrium. IEEE Transactions on Magnetics, 2009, 45, 5224-5227.	2.1	15
16	Computation of Resonant Modes and Frequencies for Saturated Ferromagnetic Nanoparticles. IEEE Transactions on Magnetics, 2008, 44, 3141-3144.	2.1	8
17	Nonlinear Magnetization Dynamics. Switching and Relaxation Phenomena. , 2006, , 435-565.		10
18	Nonlinear Magnetization Dynamics. Magnetization Modes and Spin Waves under Rotating Fields. , 2006, , 567-642.		3

#	Article	IF	Citations
19	Geometrical integration of Landau–Lifshitz–Gilbert equation based on the mid-point rule. Journal of Computational Physics, 2005, 209, 730-753.	3.8	108
20	Analytical description of magnetization relaxation to equilibrium. Journal of Applied Physics, 2005, 97, 10E315.	2.5	5
21	Quasiperiodic magnetization dynamics in uniformly magnetized particles and films. Journal of Applied Physics, 2004, 95, 7052-7054.	2.5	24
22	Generalized magnetostatic modes around large magnetization motions. Journal of Applied Physics, 2004, 95, 7046-7048.	2.5	3
23	Nonlinear Magnetization Dynamics under Circularly Polarized Field. Physical Review Letters, 2001, 86, 724-727.	7.8	159
24	Spin-Wave Instabilities in Large-Scale Nonlinear Magnetization Dynamics. Physical Review Letters, 2001, 87, 217203.	7.8	30
25	Step response characterization of nonlinear diffusion of electromagnetic fields. Journal of Applied Physics, 1999, 85, 4388-4390.	2.5	0
26	Eddy current losses in anisotropic media subject to rotating magnetic fluxes. Journal of Applied Physics, 1999, 85, 5199-5201.	2.5	0