

Claudio Serpico

List of Publications by Year in descending order

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26
papers

607
citations

840776

11
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

539
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Magnetization Dynamics under Circularly Polarized Field. <i>Physical Review Letters</i> , 2001, 86, 724-727.	7.8	159
2	Geometrical integration of Landau–Lifshitz–Gilbert equation based on the mid-point rule. <i>Journal of Computational Physics</i> , 2005, 209, 730-753.	3.8	108
3	Inertial spin dynamics in ferromagnets. <i>Nature Physics</i> , 2021, 17, 245-250.	16.7	78
4	A novel formulation for the numerical computation of magnetization modes in complex micromagnetic systems. <i>Journal of Computational Physics</i> , 2009, 228, 6130-6149.	3.8	39
5	Spin-Wave Instabilities in Large-Scale Nonlinear Magnetization Dynamics. <i>Physical Review Letters</i> , 2001, 87, 217203.	7.8	30
6	Magnetization reversal driven by low dimensional chaos in a nanoscale ferromagnet. <i>Nature Communications</i> , 2019, 10, 543.	12.8	27
7	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. <i>Physical Review Letters</i> , 2019, 123, 197204.	7.8	26
8	Quasiperiodic magnetization dynamics in uniformly magnetized particles and films. <i>Journal of Applied Physics</i> , 2004, 95, 7052-7054.	2.5	24
9	Magnetization switching in the inertial regime. <i>Physical Review B</i> , 2022, 105, .	3.2	20
10	Large scale finite-element simulation of micromagnetic thermal noise. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 408-414.	2.3	16
11	Analytical Description of Quasi-Random Magnetization Relaxation to Equilibrium. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 5224-5227.	2.1	15
12	Nonlinear Magnetization Dynamics. <i>Switching and Relaxation Phenomena.</i> , 2006, , 435-565.		10
13	Computation of Resonant Modes and Frequencies for Saturated Ferromagnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3141-3144.	2.1	8
14	Dipolar mode localization and spectral gaps in quasi-periodic arrays of ferromagnetic nanoparticles. <i>Physical Review B</i> , 2009, 79, .	3.2	7
15	Spin-wave analysis of uniaxial nanopillar devices. <i>Journal of Applied Physics</i> , 2009, 105, 07D104.	2.5	7
16	Nonlinear Resonant and Chaotic Dynamics in Microwave Assisted Magnetization Switching. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3950-3953.	2.1	7
17	Analytical description of magnetization relaxation to equilibrium. <i>Journal of Applied Physics</i> , 2005, 97, 10E315.	2.5	5
18	Phase-Flow Interpretation of Magnetization Relaxation in Nanomagnets. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	5

#	ARTICLE	IF	CITATIONS
19	Generalized magnetostatic modes around large magnetization motions. Journal of Applied Physics, 2004, 95, 7046-7048.	2.5	3
20	Nonlinear Magnetization Dynamics. Magnetization Modes and Spin Waves under Rotating Fields. , 2006, , 567-642.		3
21	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
22	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
23	Magnetization Reversal in Exchange Spring Bilayer System Under Circularly Polarized Microwave Field. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
24	Impact of Magneto-Electric Coupling on Metastable Magnetic States in Thin Disks. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
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