Yoshinobu Nakatani

List of Publications by Year
in descending order

24 papers	2,128 citations	623734 14 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	1658 citing authors

#	Article	IF	Citations
1	Chirality-induced effective field in Pt/Co/MgO system with spatial anisotropy-modulation. Applied Physics Letters, 2022, 120, 172402.	3.3	0
2	Determination of the Dzyaloshinskii-Moriya interaction using pattern recognition and machine learning. Npj Computational Materials, 2021, 7, .	8.7	14
3	Control of current-induced skyrmion motion in ratchet-type skyrmion-based racetrack memory with a loop structure. Japanese Journal of Applied Physics, 2021, 60, 010904.	1.5	7
4	Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet Mn3Sn. Communications Physics, 2020, 3, .	5.3	21
5	Controlling skyrmion motion in an angelfish-type racetrack memory by an AC magnetic field. Applied Physics Express, 2020, 13, 073003.	2.4	14
6	Electric field control of magnetic domain wall motion via modulation of the Dzyaloshinskii-Moriya interaction. Science Advances, 2018, 4, eaav0265.	10.3	49
7	Soliton-like magnetic domain wall motionÂinducedÂby the interfacial Dzyaloshinskiiâ€"MoriyaÂinteraction. Nature Physics, 2016, 12, 157-161.	16.7	125
8	Real-time observation of electrical vortex core switching. Applied Physics Letters, 2013, 102, .	3.3	17
9	Influence of Instabilities on High-Field Magnetic Domain Wall Velocity in (Co/Ni) Nanostrips. Applied Physics Express, 2011, 4, 113001.	2.4	31
10	Fast Micromagnetic Simulation of Vortex Core Motion by GPU. Journal of the Magnetics Society of Japan, 2011, 35, 163-170.	0.9	5
11	All-electrical operation of magnetic vortex core memory cell. Applied Physics Letters, 2011, 99, .	3.3	54
12	Current-induced switching of magnetic vortex core in ferromagnetic elliptical disks. Applied Physics Letters, 2010, 96, .	3.3	16
13	Dispersion Effect of Size, Exchange and Anisotropy of Perpendicular Media on Read/Write Properties. , 2006, , .		0
14	Micromagnetic understanding of current-driven domain wall motion in patterned nanowires. Europhysics Letters, 2005, 69, 990-996.	2.0	988
15	Faster magnetic walls in rough wires. Nature Materials, 2003, 2, 521-523.	27.5	348
16	Micromagnetic simulation of wall motion for MAMMOS and DWDD.. Journal of the Magnetics Society of Japan, 2001, 25, 252-257.	0.4	5
17	Parallel Computation of a Demagnetizing Field in a Distributed Environment. Journal of the Magnetics Society of Japan, 1999, 20, 35-40.	0.4	5
18	Computer simulation of thermal fluctuation of fine particle magnetization based on Langevin equation. Journal of Magnetism and Magnetic Materials, 1997, 168, 347-351.	2.3	61

#	Article	IF	Citations
19	Computer simulation of annihilation process of verticle bloch line pair. , 1993, , .		0
20	On the influence of wall microdeformations on Bloch line visibility in bubble garnets (invited). Journal of Applied Physics, 1991, 69, 6090-6095.	2.5	39
21	Direct Solution of the Landau-Lifshitz-Gilbert Equation for Micromagnetics. Japanese Journal of Applied Physics, 1989, 28, 2485-2507.	1.5	303
22	Computer simulation of two-dimensional vertical Bloch lines by direct integration of Gilbert equation. IEEE Transactions on Magnetics, 1987, 23, 2179-2181.	2.1	17
23	Computer simulation of magnetic domain wall motion to derive effective interaction forces between vertical Bloch lines. IEEE Transactions on Magnetics, 1986, 22, 796-798.	2.1	3
24	Computer simulation of the motion of magnetic domain wall based on lumped-constant model of vertical Bloch lines. IEEE Transactions on Magnetics, 1985, 21, 1767-1769.	2.1	6