

# Yoshinobu Nakatani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9600965/publications.pdf>

Version: 2024-02-01

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  | Micromagnetic understanding of current-driven domain wall motion in patterned nanowires. Europhysics Letters, 2005, 69, 990-996.  | 2.0  | 988       |
| 2  | Faster magnetic walls in rough wires. Nature Materials, 2003, 2, 521-523.   | 27.5 | 348       |
| 3  | Direct Solution of the Landau-Lifshitz-Gilbert Equation for Micromagnetics. Japanese Journal of Applied Physics, 1989, 28, 2485-2507.                                     | 1.5  | 303       |
| 4  | Soliton-like magnetic domain wall motion induced by the interfacial Dzyaloshinskii-Moriya interaction. Nature Physics, 2016, 12, 157-161.                                 | 16.7 | 125       |
| 5  | 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        |
| 6  | All-electrical operation of magnetic vortex core memory cell. Applied Physics Letters, 2011, 99, .  | 3.3  | 54        |
| 7  | Electric field control of magnetic domain wall motion via modulation of the Dzyaloshinskii-Moriya interaction. Science Advances, 2018, 4, eaav0265.                       | 10.3 | 49        |
| 8  | 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        |
| 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 | Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet Mn <sub>3</sub> Sn. Communications Physics, 2020, 3, . | 5.3  | 21        |
| 11 | Computer simulation of two-dimensional vertical Bloch lines by direct integration of Gilbert equation. IEEE Transactions on Magnetism, 1987, 23, 2179-2181.               | 2.1  | 17        |
| 12 | Real-time observation of electrical vortex core switching. Applied Physics Letters, 2013, 102, .  | 3.3  | 17        |
| 13 | Current-induced switching of magnetic vortex core in ferromagnetic elliptical disks. Applied Physics Letters, 2010, 96, .   | 3.3  | 16        |
| 14 | Controlling skyrmion motion in an angelfish-type racetrack memory by an AC magnetic field. Applied Physics Express, 2020, 13, 073003.                                     | 2.4  | 14        |
| 15 | Determination of the Dzyaloshinskii-Moriya interaction using pattern recognition and machine learning. Npj Computational Materials, 2021, 7, .                            | 8.7  | 14        |
| 16 | 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         |
| 17 | Computer simulation of the motion of magnetic domain wall based on lumped-constant model of vertical Bloch lines. IEEE Transactions on Magnetism, 1985, 21, 1767-1769.    | 2.1  | 6         |
| 18 | Fast Micromagnetic Simulation of Vortex Core Motion by GPU. Journal of the Magnetism Society of Japan, 2011, 35, 163-170.   | 0.9  | 5         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Parallel Computation of a Demagnetizing Field in a Distributed Environment. Journal of the Magnetism Society of Japan, 1999, 20, 35-40.                                    | 0.4 | 5         |
| 20 | Micromagnetic simulation of wall motion for MAMMOS and DWDD.. Journal of the Magnetism Society of Japan, 2001, 25, 252-257.  | 0.4 | 5         |
| 21 | 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         |
| 22 | Computer simulation of annihilation process of vertical Bloch line pair. , 1993, , .   |     | 0         |
| 23 | Dispersion Effect of Size, Exchange and Anisotropy of Perpendicular Media on Read/Write Properties. , 2006, , .  |     | 0         |
| 24 | Chirality-induced effective field in Pt/Co/MgO system with spatial anisotropy-modulation. Applied Physics Letters, 2022, 120, 172402.                                      | 3.3 | 0         |