Hans Fangohr

List of Publications by Year in descending order

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| | | 109321 | 144013 |
|----------|----------------|--------------|----------------|
| 149 | 3,960 | 35 | 57 |
| papers | citations | h-index | g-index |
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| 152 | 152 | 152 | 4156 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | Ubermag: Toward More Effective Micromagnetic Workflows. IEEE Transactions on Magnetics, 2022, 58, 1-5. | 2.1 | 42 |
| 2 | Jupyter in Computational Science. Computing in Science and Engineering, 2021, 23, 5-6. | 1.2 | 6 |
| 3 | Using Jupyter for Reproducible Scientific Workflows. Computing in Science and Engineering, 2021, 23, 36-46. | 1.2 | 42 |
| 4 | 3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15. | 9.3 | 48 |
| 5 | Skyrmion States in Disk Geometry. Physical Review Applied, 2021, 16, . | 3.8 | 3 |
| 6 | Shock Damage Analysis in Serial Femtosecond Crystallography Data Collected at MHz X-ray Free-Electron Lasers. Crystals, 2020, 10, 1145. | 2.2 | 5 |
| 7 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>ï€</mml:mi></mml:math> -anisotropy: A nanocarbon route to hard magnetism. Physical Review B, 2020, 101, . | 3.2 | 15 |
| 8 | Real-space imaging of confined magnetic skyrmion tubes. Nature Communications, 2020, 11, 1726. | 12.8 | 103 |
| 9 | Automatic Feedback Provision in Teaching Computational Science. Lecture Notes in Computer Science, 2020, , 608-621. | 1.3 | 4 |
| 10 | Membrane protein megahertz crystallography at the European XFEL. Nature Communications, 2019, 10, 5021. | 12.8 | 47 |
| 11 | The Karabo distributed control system. Journal of Synchrotron Radiation, 2019, 26, 1448-1461. | 2.4 | 23 |
| 12 | Stable and manipulable Bloch point. Scientific Reports, 2019, 9, 7959. | 3.3 | 13 |
| 13 | Nanoscale magnetic skyrmions and target states in confined geometries. Physical Review B, 2019, 99, . | 3.2 | 44 |
| 14 | Do Images of Biskyrmions Show Typeâ€N Bubbles?. Advanced Materials, 2019, 31, e1806598. | 21.0 | 73 |
| 15 | MHz data collection of a microcrystalline mixture of different jack bean proteins. Scientific Data, 2019, 6, 18. | 5.3 | 5 |
| 16 | Flat Bands, Indirect Gaps, and Unconventional Spin-Wave Behavior Induced by a Periodic Dzyaloshinskii-Moriya Interaction. Physical Review Letters, 2019, 122, 067204. | 7.8 | 41 |
| 17 | Evaluation of serial crystallographic structure determination within megahertz pulse trains. Structural Dynamics, 2019, 6, 064702. | 2.3 | 26 |
| 18 | Data analysis infrastructure for serial crystallography experiments at the EuXFEL. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e25-e25. | 0.1 | 0 |

| # | Article | lF | Citations |
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| 19 | Skyrmion states in thin confined polygonal nanostructures. Journal of Applied Physics, 2018, 123, . | 2.5 | 26 |
| 20 | Absorbing boundary layers for spin wave micromagnetics. Journal of Magnetism and Magnetic Materials, 2018, 450, 34-39. | 2.3 | 39 |
| 21 | Current-induced instability of domain walls in cylindrical nanowires. Journal of Physics Condensed Matter, 2018, 30, 015801. | 1.8 | 2 |
| 22 | Enhanced spin wave propagation in magnonic rings by bias field modulation. AIP Advances, 2018, 8, 056006. | 1.3 | 3 |
| 23 | Proposal for a micromagnetic standard problem for materials with Dzyaloshinskii–Moriya interaction. New Journal of Physics, 2018, 20, 113015. | 2.9 | 35 |
| 24 | Megahertz serial crystallography. Nature Communications, 2018, 9, 4025. | 12.8 | 147 |
| 25 | Dynamics of Magnetic Skyrmion Clusters Driven by Spin-Polarized Current With a Spatially Varied Polarization. IEEE Magnetics Letters, 2018, 9, 1-5. | 1.1 | 6 |
| 26 | Megahertz data collection from protein microcrystals at an X-ray free-electron laser. Nature Communications, 2018, 9, 3487. | 12.8 | 89 |
| 27 | Fidimag – A Finite Difference Atomistic and Micromagnetic Simulation Package. Journal of Open Research Software, 2018, 6, 22. | 5.9 | 38 |
| 28 | Dynamics of skyrmionic states in confined helimagnetic nanostructures. Physical Review B, 2017, 95, . | 3.2 | 61 |
| 29 | User interfaces for computational science: A domain specific language for OOMMF embedded in Python. AIP Advances, 2017, 7, . | 1.3 | 35 |
| 30 | Phase diagrams of vortex matter with multi-scale inter-vortex interactions in layered superconductors. Journal of Physics Condensed Matter, 2017, 29, 035602. | 1.8 | 7 |
| 31 | Micromagnetic simulations of spin-torque driven magnetization dynamics with spatially resolved spin transport and magnetization texture. Physical Review B, 2017, 96, . | 3.2 | 2 |
| 32 | Identification of Curie temperature distributions in magnetic particulate systems. Journal Physics D: Applied Physics, 2017, 50, 35LT01. | 2.8 | 10 |
| 33 | Magnonic analog of relativistic <i>Zitterbewegung</i> in an antiferromagnetic spin chain. Physical Review B, 2017, 96, . | 3.2 | 9 |
| 34 | Thermal stability and topological protection of skyrmions in nanotracks. Scientific Reports, 2017, 7, 4060. | 3.3 | 116 |
| 35 | Proposal of a micromagnetic standard problem for ferromagnetic resonance simulations. Journal of Magnetism and Magnetic Materials, 2017, 421, 428-439. | 2.3 | 48 |
| 36 | Methodology for indentifying the Curie temperature distributions of magnetic granular systems. , 2017, , . | | 0 |

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| 37 | Ground state skyrmion and helical states in confined FeGe nanostructures. , 2017, , . | | o |
| 38 | Exchange-mediated, nonlinear, out-of-plane magnetic field dependence of the ferromagnetic vortex gyrotropic mode frequency driven by core deformation. Physical Review B, 2016, 94, . | 3.2 | 7 |
| 39 | Hysteresis of nanocylinders with Dzyaloshinskii-Moriya interaction. Applied Physics Letters, 2016, 109, . | 3.3 | 21 |
| 40 | Skyrmions in thin films with easy-plane magnetocrystalline anisotropy. Applied Physics Letters, 2016, 108, . | 3.3 | 35 |
| 41 | Nmag micromagnetic simulation tool., 2016,,. | | 4 |
| 42 | Computation of the magnetostatic interaction between linearly magnetized polyhedrons. Journal of Magnetism and Magnetic Materials, 2016, 412, 132-137. | 2.3 | 2 |
| 43 | Topologically stable magnetization states on a spherical shell: Curvature-stabilized skyrmions. Physical Review B, 2016, 94, . | 3.2 | 81 |
| 44 | Resonance-Based Detection of Magnetic Nanoparticles and Microbeads Using Nanopatterned Ferromagnets. Physical Review Applied, 2016, 6, . | 3.8 | 18 |
| 45 | Frequency-based nanoparticle sensing over large field ranges using the ferromagnetic resonances of a magnetic nanodisc. Nanotechnology, 2016, 27, 455502. | 2.6 | 8 |
| 46 | Resonant translational, breathing, and twisting modes of transverse magnetic domain walls pinned at notches. Physical Review B, 2016, 93, . | 3.2 | 11 |
| 47 | Virtual Micromagnetics: A Framework for Accessible and Reproducible Micromagnetic Simulation. Journal of Open Research Software, 2016, 4, . | 5.9 | 0 |
| 48 | Driving magnetic skyrmions with microwave fields. Physical Review B, 2015, 92, . | 3.2 | 84 |
| 49 | Phenomenological description of the nonlocal magnetization relaxation in magnonics, spintronics, and domain-wall dynamics. Physical Review B, 2015, 92, . | 3.2 | 28 |
| 50 | Ground state search, hysteretic behaviour and reversal mechanism of skyrmionic textures in confined helimagnetic nanostructures. Scientific Reports, 2015, 5, 17137. | 3.3 | 165 |
| 51 | Skyrmion-skyrmion and skyrmion-edge repulsions in skyrmion-based racetrack memory. Scientific Reports, 2015, 5, 7643. | 3.3 | 360 |
| 52 | Magnon-Driven Domain-Wall Motion with the Dzyaloshinskii-Moriya Interaction. Physical Review Letters, 2015, 114, 087203. | 7.8 | 74 |
| 53 | Anharmonic Infrared Spectroscopy through the Fourier Transform of Time Correlation Function Formalism in O <scp>NETEP</scp> . Journal of Chemical Theory and Computation, 2015, 11, 3321-3332. | 5.3 | 20 |
| 54 | Microwave-induced dynamic switching of magnetic skyrmion cores in nanodots. Applied Physics Letters, 2015, 106, . | 3.3 | 43 |

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| 55 | Computing the demagnetizing tensor for finite difference micromagnetic simulations via numerical integration. Journal of Magnetism and Magnetic Materials, 2015, 381, 440-445. | 2.3 | 7 |
| 56 | Sensing magnetic nanoparticles using nano-confined ferromagnetic resonances in a magnonic crystal. Applied Physics Letters, $2015, 106, .$ | 3.3 | 44 |
| 57 | Magnetic skyrmions motion driven by propagating spin waves. , 2015, , . | | O |
| 58 | Simulation of the phase diagram of magnetic vortices in two-dimensional superconductors: evidence for vortex chain formation. Journal of Physics Condensed Matter, 2014, 26, 115702. | 1.8 | 7 |
| 59 | Better Design Decisions Through Operational Modeling During the Early Design Phases. Journal of Aerospace Information Systems, 2014, 11, 195-210. | 1.4 | 3 |
| 60 | Dynamic control of spin wave spectra using spin-polarized currents. Applied Physics Letters, 2014, 105, 112405. | 3.3 | 8 |
| 61 | Magneto-Electric Control of Surface Anisotropy and Nucleation Modes in L1 <inline-formula><tex-math> $_{0}$</tex-math></inline-formula> -CoPt Thin Films. IEEE Magnetics Letters, 2014, 5, 1-4. | 1.1 | 2 |
| 62 | Designing a Spin-Seebeck Diode. Physical Review Letters, 2014, 112, 047203. | 7.8 | 51 |
| 63 | Honeycomb, square, and kagome vortex lattices in superconducting systems with multiscale intervortex interactions. Physical Review B, 2014, 90, . | 3.2 | 15 |
| 64 | Proposal for a Standard Micromagnetic Problem: Spin Wave Dispersion in a Magnonic Waveguide. IEEE Transactions on Magnetics, 2013, 49, 524-529. | 2.1 | 73 |
| 65 | Role of boundaries in micromagnetic calculations of magnonic spectra of arrays of magnetic nanoelements. Physical Review B, 2013, 87, . | 3.2 | 11 |
| 66 | Hierarchical structure formation in layered superconducting systems with multi-scale inter-vortex interactions. Journal of Physics Condensed Matter, 2013, 25, 415702. | 1.8 | 19 |
| 67 | Effect of hole shape on spin-wave band structure in one-dimensional magnonic antidot waveguide. Journal of Applied Physics, 2013, 114, . | 2.5 | 33 |
| 68 | Multiscale micromagnetism of Co-Pd multilayers. Journal of Applied Physics, 2012, 111, 07C724. | 2.5 | 4 |
| 69 | Complex agent interactions in operational simulations for aerospace design. , 2012, , . | | 1 |
| 70 | Effect of rounded corners on the magnetic properties of pyramidal-shaped shell structures. Journal of Applied Physics, 2012, 111, 07D127. | 2.5 | 2 |
| 71 | Calculation of high-frequency permeability of magnonic metamaterials beyond the macrospin approximation. Physical Review B, $2012, 86, .$ | 3.2 | 26 |
| 72 | Effect of magnetization pinning on the spectrum of spin waves in magnonic antidot waveguides. Physical Review B, 2012, 86, . | 3.2 | 48 |

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| 73 | Electric field driven domain wall transfer in hybrid structures. , 2012, , . | | O |
| 74 | Ultrahard magnetic nanostructures. Journal of Applied Physics, 2012, 111, 07E345. | 2.5 | 13 |
| 75 | Domain wall motion in perpendicular anisotropy nanowires with edge roughness. Journal of Physics Condensed Matter, 2012, 24, 024219. | 1.8 | 15 |
| 76 | A Generic Unifying Ontology for Civil Unmanned Aerial Vehicle Missions. , 2012, , . | | 7 |
| 77 | Phase diagram of vortex matter of type-II superconductors. Physical Review B, 2011, 83, . | 3.2 | 17 |
| 78 | Micromagnetic simulations of magnetoelectric materials. Journal of Applied Physics, 2011, 109, . | 2.5 | 4 |
| 79 | Enhanced spin transfer torque effect for transverse domain walls in cylindrical nanowires. Physical Review B, 2011, 84, . | 3.2 | 20 |
| 80 | Electrodeposition and magnetic properties of three-dimensional bulk and shell nickel mesostructures. Thin Solid Films, 2011, 519, 8320-8325. | 1.8 | 20 |
| 81 | Joule heating in nanowires. Physical Review B, 2011, 84, . | 3.2 | 101 |
| 82 | Field‶uneable Diamagnetism in Ferromagnetic–Superconducting Core–Shell Structures. Advanced Functional Materials, 2011, 21, 1874-1880. | 14.9 | 2 |
| 83 | Vortex dynamics for low- <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>κ</mml:mi></mml:math> type-ll superconductors. Physical Review B, 2011, 84, . | 3.2 | 14 |
| 84 | Three-dimensional ferromagnetic architectures with multiple metastable states. Applied Physics Letters, $2011,98,.$ | 3.3 | 8 |
| 85 | Fabrication and simulation of nanostructures for domain wall magnetoresistance studies on nickel. Journal of Magnetism and Magnetic Materials, 2010, 322, 1467-1470. | 2.3 | 8 |
| 86 | Micromagnetic studies of three-dimensional pyramidal shell structures. New Journal of Physics, 2010, 12, 113048. | 2.9 | 15 |
| 87 | Magnetoresistance in a lithography defined single constrained domain wall spin-valve. Applied Physics Letters, 2010, 97, 262501. | 3.3 | 9 |
| 88 | Nonequilibrium dynamics in type-II superconductors with inhomogeneous vortex pinning. Physica C: Superconductivity and Its Applications, 2009, 469, 2008-2011. | 1.2 | 0 |
| 89 | Magnetic switching modes for exchange spring systems with competing anisotropies. Journal of Magnetism and Magnetic Materials, 2009, 321, 2499-2507. | 2.3 | 7 |
| 90 | Compression of boundary element matrix in micromagnetic simulations. Journal of Applied Physics, 2009, 105, . | 2.5 | 16 |

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| 91 | Proposal for a standard problem for micromagnetic simulations including spin-transfer torque. Journal of Applied Physics, 2009, 105, . | 2.5 | 38 |
| 92 | Parallel execution and scriptability in micromagnetic simulations. Journal of Applied Physics, 2009, 105, 07D527. | 2.5 | 5 |
| 93 | A new approach to (quasi) periodic boundary conditions in micromagnetics: The macrogeometry. Journal of Applied Physics, 2009, 105, . | 2.5 | 40 |
| 94 | Morphology of flows and buoyant bubbles in the Virgo cluster. Monthly Notices of the Royal Astronomical Society, 2008, 384, 1377-1386. | 4.4 | 15 |
| 95 | Numerical studies of demagnetizing effects in triangular ring arrays. Journal of Applied Physics, 2008, 103, 07D932. | 2.5 | 3 |
| 96 | Spin-polarized currents in exchange spring systems. Journal of Applied Physics, 2008, 103, . | 2.5 | 4 |
| 97 | Peak Effect in the Critical Current of Type II Superconductors with Strong Magnetic Vortex Pinning. Physical Review Letters, 2008, 101, 147002. | 7.8 | 14 |
| 98 | Current driven dynamics of domain walls constrained in ferromagnetic nanopillars. Physical Review B, 2008, 78, . | 3.2 | 26 |
| 99 | Numerical investigation of domain walls in constrained geometries. Journal of Applied Physics, 2008, 103, 07D926. | 2.5 | 4 |
| 100 | Managing Large Volumes of Distributed Scientific Data. Lecture Notes in Computer Science, 2008, , 339-348. | 1.3 | 2 |
| 101 | Apparent negative mobility of vortex matter due to inhomogeneous pinning. Physical Review B, 2007, 75, . | 3.2 | 6 |
| 102 | Spin-flop transition driven by exchange springs in ErFe2â^•YFe2 multilayers. Journal of Applied Physics, 2007, 101, 09K511. | 2.5 | 3 |
| 103 | Three hydrolases and a transferase: Comparative analysis of active-site dynamics via the BioSimGrid database. Journal of Molecular Graphics and Modelling, 2007, 25, 896-902. | 2.4 | 7 |
| 104 | Geometrical multilayers: Coercivity in magnetic 3-D nanostructures. Journal of Magnetism and Magnetic Materials, 2007, 310, e846-e848. | 2.3 | 2 |
| 105 | Micromagnetic modelling of ferromagnetic cones. Journal of Magnetism and Magnetic Materials, 2007, 312, 234-238. | 2.3 | 8 |
| 106 | Long range ordering in self-assembled Ni arrays on patterned Si. Journal of Magnetism and Magnetic Materials, 2007, 316, e78-e81. | 2.3 | 6 |
| 107 | Micromagnetic Modelling of the Dynamics of Exchange Springs in Multi-Layer Systems. IEEE Transactions on Magnetics, 2007, 43, 2887-2889. | 2.1 | 6 |
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| 109 | A Systematic Approach to Multiphysics Extensions of Finite-Element-Based Micromagnetic Simulations: Nmag. IEEE Transactions on Magnetics, 2007, 43, 2896-2898. | 2.1 | 247 |
| 110 | Buoyant Bubbles in the Virgo Cluster. Globular Clusters - Guides To Galaxies, 2007, , 234-236. | 0.1 | 0 |
| 111 | Heating Rate Profiles in Galaxy Clusters. , 2007, , 251-256. | | 0 |
| 112 | BioSimGrid: Grid-enabled biomolecular simulation data storage and analysis. Future Generation Computer Systems, 2006, 22, 657-664. | 7.5 | 29 |
| 113 | Quality Assurance for Biomolecular Simulations. Journal of Chemical Theory and Computation, 2006, 2, 1477-1481. | 5.3 | 17 |
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| 116 | Heating rate profiles in galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2006, 367, 1121-1131. | 4.4 | 26 |
| 117 | Effect of the long-range adsorbate interactions on the atomic self-assembly on metal surfaces. Surface Science, 2006, 600, 58-61. | 1.9 | 21 |
| 118 | Anisotropy of Magnetization Reversal and Magnetoresistance in Square Arrays of Permalloy Nano-Rings. IEEE Transactions on Magnetics, 2006, 42, 2948-2950. | 2.1 | 3 |
| 119 | Magnetic anisotropy in the cubic Laves REFe2intermetallic compounds. Journal of Physics Condensed Matter, 2006, 18, 459-478. | 1.8 | 29 |
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| 121 | Metastable behavior of vortex matter in the electronic transport processes of homogenous superconductors. Physical Review B, 2006, 73, . | 3.2 | 5 |
| 122 | Self-organization of Ce adatoms onAg(111): A kinetic Monte Carlo study. Physical Review B, 2006, 74, . | 3.2 | 28 |
| 123 | Micromagnetic simulation of the magnetic exchange spring system DyFe2â^•YFe2. Journal of Applied Physics, 2006, 99, 08B904. | 2.5 | 15 |
| 124 | Exchange spring driven spin flop transition in ErFe2â^•YFe2 multilayers. Applied Physics Letters, 2006, 89, 132511. | 3.3 | 11 |
| 125 | Oscillatory thickness dependence of the coercive field in magnetic three-dimensional antidot arrays. Applied Physics Letters, 2006, 88 , 062511 . | 3.3 | 21 |
| 126 | Anisotropy of Magnetization Reversal and Magnetoresistance in Square Arrays of Permalloy Nano-Rings. , 2006, , . | | 0 |

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| 127 | Exploiting Real-Time 3d Visualisation to Enthuse Students: A Case Study of Using Visual Python in Engineering. Lecture Notes in Computer Science, 2006, , 139-146. | 1.3 | 1 |
| 128 | Grid computing and biomolecular simulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 2017-2035. | 3.4 | 18 |
| 129 | Ordered sub-micron magnetic dot arrays using self-assembly template method. Journal of Magnetism and Magnetic Materials, 2005, 286, 1-4. | 2.3 | 15 |
| 130 | The stability of buoyant bubbles in the atmospheres of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2005, 359, 493-503. | 4.4 | 37 |
| 131 | The effects of thermal conduction on the intracluster medium of the Virgo cluster. Monthly Notices of the Royal Astronomical Society, 2005, 364, 13-28. | 4.4 | 32 |
| 132 | Shape-induced anisotropy in antidot arrays from self-assembled templates. IEEE Transactions on Magnetics, 2005, 41, 3598-3600. | 2.1 | 4 |
| 133 | Self-assembly routes towards creating superconducting and magnetic arrays. Journal of Low Temperature Physics, 2005, 139, 339-349. | 1.4 | 4 |
| 134 | Self-assembly Routes towards Creating Superconducting and Magnetic Arrays. Journal of Low Temperature Physics, 2005, 139, 339-349. | 1.4 | 3 |
| 135 | Shape induced anisotropy in hybrid anti-dot arrays from guided self-assembly templates. , 2005, , . | | 0 |
| 136 | Micromagnetic simulation studies of ferromagnetic part spheres. Journal of Applied Physics, 2005, 97, 10E305. | 2.5 | 22 |
| 137 | Oscillatory thickness dependence of the coercive field in three-dimensional anti-dot arrays from self-assembly. Journal of Applied Physics, 2005, 97, 10J701. | 2.5 | 6 |
| 138 | A Comparison of C, MATLAB, and Python as Teaching Languages in Engineering. Lecture Notes in Computer Science, 2004, , 1210-1217. | 1.3 | 53 |
| 139 | Micromagnetic simulation of ferromagnetic part-spherical particles. Journal of Applied Physics, 2004, 95, 7037-7039. | 2.5 | 15 |
| 140 | Coercivity of 3D nanoscale magnetic arrays from self-assembly template methods. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1621-1622. | 2.3 | 17 |
| 141 | Driving force for commensurate vortex domain formation in periodic pinning arrays. Physica C: Superconductivity and Its Applications, 2004, 404, 50-55. | 1.2 | 0 |
| 142 | BioSimGrid: towards a worldwide repository for biomolecular simulations. Organic and Biomolecular Chemistry, 2004, 2, 3219. | 2.8 | 42 |
| 143 | Symmetry Locking and Commensurate Vortex Domain Formation in Periodic Pinning Arrays. Physical Review Letters, 2003, 90, 237001. | 7.8 | 67 |
| 144 | Vortex matter in layered superconductors without Josephson coupling: Numerical simulations within a mean-field approach. Physical Review B, 2003, 67, . | 3.2 | 21 |

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| 145 | Vortex dynamics in two-dimensional systems at high driving forces. Physical Review B, 2001, 64, . | 3.2 | 75 |
| 146 | Critical transverse forces in weakly pinned driven vortex systems. Physical Review B, 2001, 63, . | 3.2 | 22 |
| 147 | Efficient Methods for Handling Long-Range Forces in Particle–Particle Simulations. Journal of Computational Physics, 2000, 162, 372-384. | 3.8 | 23 |
| 148 | Monte Carlo simulation of layered high-temperature superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1303-1304. | 1.2 | 0 |
| 149 | Parallel execution and scriptability in micromagnetic simulations. , 0, . | | 1 |