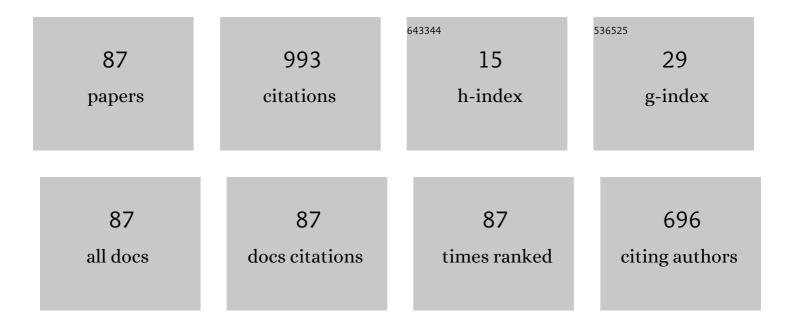
Isaak D Mayergoyz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Scanning Tunneling Microscopy Detection of Surface Spin-Polarized Electron Accumulations in Topological Insulators. IEEE Magnetics Letters, 2021, 12, 1-4. | 0.6 | 1 |
| 2 | Effect of Sn Doping on Surface States of Bi ₂ Se ₃ Thin Films. Journal of Physical Chemistry C, 2020, 124, 27082-27088. | 1.5 | 12 |
| 3 | Study of Surface Spin-Polarized Electron Accumulation in Topological Insulators Using Scanning Tunneling Microscopy. IEEE Magnetics Letters, 2020, 11, 1-4. | 0.6 | 1 |
| 4 | Transient Chaos in Nanomagnets Subject to Elliptically Polarized AC Applied Fields. IEEE Transactions on Magnetics, 2019, 55, 1-5. | 1.2 | 2 |
| 5 | Scanning tunneling microscopy measurements of the spin Hall effect in tungsten films by using iron-coated tungsten tips. AIP Advances, 2018, 8, 055914. | 0.6 | 3 |
| 6 | Scanning Tunneling Microscopy Study of the Spin Hall Effect in Platinum and Highly Resistive Tungsten Films. IEEE Magnetics Letters, 2018, 9, 1-5. | 0.6 | 2 |
| 7 | On Local Sensing of Spin Hall Effect in Tungsten Films by Using STM-Based Measurements. IEEE Nanotechnology Magazine, 2018, 17, 914-919. | 1.1 | 5 |
| 8 | Power Spectral Density of Magnetization Dynamics Driven by a Jump-Noise Process. IEEE Transactions on Magnetics, 2017, 53, 1-5. | 1.2 | 1 |
| 9 | Quantum Dynamics as Landau–Lifshitz-Type Dynamics and Random Wave Function Collapse. IEEE Magnetics Letters, 2017, 8, 1-4. | 0.6 | 0 |
| 10 | Analytical Treatment of Nonlinear Ferromagnetic Resonance in Nanomagnets. IEEE Transactions on Magnetics, 2017, 53, 1-5. | 1.2 | 6 |
| 11 | Fabrication and Evaluation of PCB-Embedded Broadband Signal Transformers With Custom Machined Racetrack-Shaped Ferrite Cores for Ethernet Applications. IEEE Transactions on Magnetics, 2017, 53, 1-5. | 1.2 | 7 |
| 12 | A scanning tunneling microscopy based potentiometry technique and its application to the local sensing of the spin Hall effect. AlP Advances, 2017, 7, 125205. | 0.6 | 5 |
| 13 | A simple implementation of scanning tunneling potentiometry with a standard scanning tunneling microscope. , 2017, , . | | 0 |
| 14 | Inductance Maximization by Mitigation of Encapsulation Stresses of PCB Embedded Ferrite Broadband Transformers. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 1.2 | 5 |
| 15 | Numerical Modeling of Random Magnetization Dynamics. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 1.2 | 1 |
| 16 | Heteroclinic tangle phenomena in nanomagnets subject to time-harmonic excitations. Journal of Applied Physics, 2015, 117, . | 1.1 | 6 |
| 17 | Phase-Flow Interpretation of Magnetization Relaxation in Nanomagnets. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 1.2 | 5 |
| 18 | Analysis of Reliable Ultrafast Precessional Switching in the Presence of Transverse Applied Magnetic Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 1.2 | 0 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Analysis of plasmon resonances in metallic nanostructures in proximity to dielectric objects with application to heat-assisted magnetic recording. Journal of Applied Physics, 2014, 115, 17B705. | 1.1 | Ο |
| 20 | Plasmon resonance enhancement of Faraday rotation of liquid phase epitaxy grown garnet films populated with gold nanoparticles on the film surfaces. Journal of Applied Physics, 2014, 115, 17A932. | 1.1 | 3 |
| 21 | Conservative effects in spin-transfer-driven magnetization dynamics. Physical Review B, 2014, 90, . | 1.1 | 1 |
| 22 | Zero-footprint Ethernet transformers using circuit-board embedded ferrites. Journal of Applied Physics, 2014, 115, . | 1.1 | 7 |
| 23 | Performance effects of device scale and core aspect-ratio on dielectric-core circuit board transformers. Journal of Applied Physics, 2014, 115, 17E717. | 1.1 | 1 |
| 24 | Monte Carlo Simulations of Random Magnetization Dynamics Driven by a Jump-Noise Process on General Purpose Graphics Processing Units (GPUs). IEEE Transactions on Magnetics, 2013, 49, 3133-3136. | 1.2 | 4 |
| 25 | Probabilistic Aspects of Magnetization Relaxation in Single-Domain Nanomagnets. Physical Review Letters, 2013, 110, 147205. | 2.9 | 16 |
| 26 | Deposition of gold nanoparticles on liquid phase epitaxy grown garnet films and Faraday rotation enhancement. Journal of Applied Physics, 2013, 113, . | 1.1 | 2 |
| 27 | Circularly polarized plasmon modes in spheroidal nanoshells for applications to all-optical magnetic recording. Journal of Applied Physics, 2012, 111, 07A915. | 1.1 | 1 |
| 28 | Monte Carlo simulations of Landau-Lifshitz dynamics driven by a jump-noise process. Journal of Applied Physics, 2012, 111, . | 1.1 | 4 |
| 29 | Jump-noise process-driven magnetization dynamics and random switching of magnetization. Journal of Applied Physics, 2012, 111, . | 1.1 | 3 |
| 30 | Analysis of Nested Winding Dielectric-Core Transformers for Ethernet Applications. IEEE Transactions on Magnetics, 2012, 48, 4127-4130. | 1.2 | 5 |
| 31 | Calculation of eddy currents in magnetically nonlinear anisotropic conductors. Journal of Applied Physics, 2012, 111, 07E719. | 1.1 | 0 |
| 32 | Anisotropy study of garnet films grown over substrates populated with gold nanoparticles. Journal of Applied Physics, 2012, 111, 07A505. | 1.1 | 2 |
| 33 | Random magnetization dynamics at elevated temperatures. Journal of Applied Physics, 2012, 111, 07D501. | 1.1 | 6 |
| 34 | Current-driven chaotic magnetization dynamics in microwave assisted switching of spin-valve elements. Journal of Applied Physics, 2011, 109, 07D349. | 1.1 | 6 |
| 35 | Analysis of eddy currents in magnetically nonlinear conductors. Journal of Applied Physics, 2011, 109, 07E703. | 1.1 | 5 |
| 36 | Plasmon resonance enhancement of Faraday rotation in thin garnet films. Journal of Applied Physics, 2011, 109, 07B717. | 1.1 | 25 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Landau–Lifshitz magnetization dynamics driven by a random jump-noise process (invited). Journal of Applied Physics, 2011, 109, . | 1.1 | 15 |
| 38 | Generalized H-theorems for magnetization dynamics driven by a jump-noise process. Journal of Applied Physics, 2011, 109, 07D327. | 1.1 | 4 |
| 39 | Magneto-Optic Indicator Films for Forensics. Materials Research Society Symposia Proceedings, 2011, 1291, 1. | 0.1 | 0 |
| 40 | Plasmon resonance enhancement of magneto-optic effects in garnets. Journal of Applied Physics, 2010, 107, 09A925. | 1.1 | 12 |
| 41 | Common Mode Analysis of Ethernet Transformers. IEEE Magnetics Letters, 2010, 1, 0500204-0500204. | 0.6 | 5 |
| 42 | Spin-Wave Instabilities in Spin-Transfer-Driven Magnetization Dynamics. IEEE Magnetics Letters, 2010, 1, 3000104-3000104. | 0.6 | 6 |
| 43 | Spin-wave analysis of uniaxial nanopillar devices. Journal of Applied Physics, 2009, 105, 07D104. | 1.1 | 7 |
| 44 | On design of air-core Ethernet transformers. Journal of Applied Physics, 2009, 105, 07A307. | 1.1 | 6 |
| 45 | Excitation and dephasing of circularly polarized plasmon modes in spherical nanoshells for application in all-optical magnetic recording. Journal of Applied Physics, 2009, 105, . | 1.1 | 9 |
| 46 | Magnetic-Field-Driven Ferromagnetic Resonance in Spin-Transfer Devices. IEEE Transactions on Magnetics, 2009, 45, 3445-3448. | 1.2 | 2 |
| 47 | Nonlinear Resonant and Chaotic Dynamics in Microwave Assisted Magnetization Switching. IEEE Transactions on Magnetics, 2009, 45, 3950-3953. | 1.2 | 7 |
| 48 | Modeling and Testing of Ethernet Transformers. IEEE Transactions on Magnetics, 2009, 45, 4793-4796. | 1.2 | 4 |
| 49 | Analytical treatment of synchronization of spin-torque oscillators by microwave magnetic fields. European Physical Journal B, 2009, 68, 221-231. | 0.6 | 32 |
| 50 | Nonlinear-dynamical-system approach to microwave-assisted magnetization dynamics (invited). Journal of Applied Physics, 2009, 105, . | 1.1 | 53 |
| 51 | Study of etched (210)-oriented thin garnet films. Journal of Applied Physics, 2008, 103, . | 1.1 | 5 |
| 52 | Path Integral Approach to Stochastic Magnetization Dynamics in Uniaxial Ferromagnetic Nanoparticles. IEEE Transactions on Magnetics, 2008, 44, 3157-3160. | 1.2 | 6 |
| 53 | Spin-Stand Imaging of Perpendicularly Recorded Data. IEEE Transactions on Magnetics, 2008, 44, 3237-3240. | 1.2 | 0 |
| 54 | The use of plasmon resonances in thermally assisted magnetic recording. Journal of Applied Physics, 2008, 103, . | 1.1 | 5 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Power spectrum of current-induced magnetization dynamics in uniaxial nanomagnets. Journal of Applied Physics, 2007, 101, 09A507. | 1.1 | 11 |
| 56 | Numerical Analysis of Plasmon Resonances in Metallic Nanoshells. IEEE Transactions on Magnetics, 2007, 43, 1689-1692. | 1.2 | 8 |
| 57 | Numerical Analysis of Nanoparticle-Structured Plasmon Waveguides of Light. IEEE Transactions on Magnetics, 2007, 43, 1685-1688. | 1.2 | 2 |
| 58 | The Computation of Extinction Cross Sections of Resonant Metallic Nanoparticles Subject to Optical Radiation. IEEE Transactions on Magnetics, 2007, 43, 1681-1684. | 1.2 | 10 |
| 59 | Analysis of Dynamics of Excitation and Dephasing of Plasmon Resonance Modes in Nanoparticles. Physical Review Letters, 2007, 98, 147401. | 2.9 | 70 |
| 60 | Analytical study of magnetization dynamics driven by spin-polarized currents. European Physical Journal B, 2007, 59, 435-445. | 0.6 | 21 |
| 61 | Micromagnetic analysis of foldover, quasiperiodicity, and parametric instabilities in ultra-thin films. , 2006, , . | | Ο |
| 62 | Thermally induced switching in uniaxial nanomagnets subject to spin-polarized currents. , 2006, , . | | 0 |
| 63 | Modeling of the Electrostatic (Plasmon) Resonances in Metallic and Semiconductor Nanoparticles. Journal of Computational Electronics, 2005, 4, 139-143. | 1.3 | 14 |
| 64 | Influence of surface anisotropy on the magnetization precessional switching in nanoparticles. Journal of Applied Physics, 2005, 97, 10J302. | 1.1 | 2 |
| 65 | Numerical integration of Landau–Lifshitz–Gilbert equation based on the midpoint rule. Journal of Applied Physics, 2005, 97, 10E319. | 1.1 | 24 |
| 66 | Quasiperiodic magnetization dynamics in uniformly magnetized particles and films. Journal of Applied Physics, 2004, 95, 7052-7054. | 1.1 | 24 |
| 67 | Random Doping Fluctuations of Small-Signal Parameters in Nanoscale Semiconductor Devices. Journal of Computational Electronics, 2004, 3, 211-214. | 1.3 | 2 |
| 68 | Growth effects (rotation rate) on the characteristics of bismuth substituted lutetium iron garnets. Journal of Applied Physics, 2004, 95, 6885-6887. | 1.1 | 7 |
| 69 | Anisotropy characterization of garnet films by using vibrating sample magnetometer measurements. Journal of Applied Physics, 2003, 93, 7065-7067. | 1.1 | 3 |
| 70 | Quantum mechanical effects on random oxide thickness and random doping induced fluctuations in ultrasmall semiconductor devices. Journal of Applied Physics, 2003, 94, 7163-7172. | 1.1 | 38 |
| 71 | Analysis of spectral noise density of hysteretic systems driven by stochastic processes. Journal of Applied Physics, 2003, 93, 6826-6828. | 1.1 | 13 |
| 72 | Comparison of analytical solutions of Landau–Lifshitz equation for "damping―and "precessional― switchings. Journal of Applied Physics, 2003, 93, 6811-6813. | 1.1 | 35 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Analysis of random-dopant induced fluctuations of frequency characteristics of semiconductor devices. Journal of Applied Physics, 2003, 93, 4646-4652. | 1.1 | 18 |
| 74 | NUMERICAL ANALYSIS OF RANDOM DOPANT-INDUCED EFFECTS IN SEMICONDUCTOR DEVICES. , 2003, , . | | 0 |
| 75 | NUMERICAL ANALYSIS OF RANDOM DOPANT-INDUCED EFFECTS IN SEMICONDUCTOR DEVICES. International Journal of High Speed Electronics and Systems, 2002, 12, 551-562. | 0.3 | 6 |
| 76 | Dynamic generalization of Stoner–Wohlfarth model. Journal of Applied Physics, 2001, 89, 7451-7453. | 1.1 | 12 |
| 77 | Nonlinear Magnetization Dynamics under Circularly Polarized Field. Physical Review Letters, 2001, 86, 724-727. | 2.9 | 159 |
| 78 | Nonlinear Landau-Lifshitz dynamics for circularly and elliptically polarized applied magnetic fields. IEEE Transactions on Magnetics, 2001, 37, 3065-3068. | 1.2 | 2 |
| 79 | Statistical analysis of semiconductor devices. Journal of Applied Physics, 2001, 90, 3019-3029. | 1.1 | 56 |
| 80 | Spin-stand imaging of overwritten data and its comparison with magnetic force microscopy. Journal of Applied Physics, 2001, 89, 6772-6774. | 1.1 | 14 |
| 81 | Spin-Wave Instabilities in Large-Scale Nonlinear Magnetization Dynamics. Physical Review Letters, 2001, 87, 217203. | 2.9 | 30 |
| 82 | Magnetic imaging on a spin-stand. Journal of Applied Physics, 2000, 87, 6824-6826. | 1.1 | 41 |
| 83 | Origin of the universality of long-time thermal relaxations in hysteretic systems. Journal of Applied Physics, 2000, 87, 4789-4791. | 1.1 | 1 |
| 84 | Rotationally symmetric solutions of the Landau–Lifshitz and diffusion equations. Journal of Applied Physics, 2000, 87, 5511-5513. | 1.1 | 11 |
| 85 | Coupling between eddy currents and Landau–Lifshitz dynamics. Journal of Applied Physics, 2000, 87, 5529-5531. | 1.1 | 12 |
| 86 | Noise in hysteretic systems and stochastic processes on graphs. Physical Review E, 2000, 62, 1850-1855. | 0.8 | 15 |
| 87 | Nonlinear Landau-Lifshitz dynamics for circularly and elliptically polarized applied magnetic fields. IEEE Transactions on Magnetics, 2000, 36, 3081-3083. | 1.2 | 1 |