

stephane Mangin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/500507/publications.pdf>

Version: 2024-02-01

217
papers

8,204
citations

66343

42
h-index

54911

84
g-index

222
all docs

222
docs citations

222
times ranked

5889
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Current-induced magnetization reversal in nanopillars with perpendicular anisotropy. Nature Materials, 2006, 5, 210-215. | 27.5 | 1,148 |
| 2 | All-optical control of ferromagnetic thin films and nanostructures. Science, 2014, 345, 1337-1340. | 12.6 | 524 |
| 3 | Engineered materials for all-optical helicity-dependent magnetic switching. Nature Materials, 2014, 13, 286-292. | 27.5 | 507 |
| 4 | Opportunities and challenges for spintronics in the microelectronics industry. Nature Electronics, 2020, 3, 446-459. | 26.0 | 471 |
| 5 | The 2017 Magnetism Roadmap. Journal Physics D: Applied Physics, 2017, 50, 363001. | 2.8 | 279 |
| 6 | Reversible Switching of Interlayer Exchange Coupling through Atomically Thin VO ₂ via Electronic State Modulation. Matter, 2020, 2, 1582-1593. | 10.0 | 202 |
| 7 | Reducing the critical current for spin-transfer switching of perpendicularly magnetized nanomagnets. Applied Physics Letters, 2009, 94, . | 3.3 | 171 |
| 8 | Light-induced magnetization reversal of high-anisotropy TbCo alloy films. Applied Physics Letters, 2012, 101, . | 3.3 | 158 |
| 9 | Two types of all-optical magnetization switching mechanisms using femtosecond laser pulses. Physical Review B, 2016, 94, . | 3.2 | 134 |
| 10 | Spin-transfer pulse switching: From the dynamic to the thermally activated regime. Applied Physics Letters, 2010, 97, . | 3.3 | 128 |
| 11 | Giant spin-dependent thermoelectric effect in magnetic tunnel junctions. Nature Communications, 2012, 3, 744. | 12.8 | 111 |
| 12 | Creation of Magnetic Skyrmion Bubble Lattices by Ultrafast Laser in Ultrathin Films. Nano Letters, 2018, 18, 7362-7371. | 9.1 | 103 |
| 13 | Threshold currents to move domain walls in films with perpendicular anisotropy. Applied Physics Letters, 2007, 90, 072508. | 3.3 | 101 |
| 14 | Hot-Electron-Induced Ultrafast Demagnetization in CoPt/MgO Multilayers. Physical Review Letters, 2016, 117, 147203. | 7.8 | 101 |
| 15 | Ultrafast spin-transfer switching in spin valve nanopillars with perpendicular anisotropy. Applied Physics Letters, 2010, 96, . | 3.3 | 89 |
| 16 | Dynamics of spin torque switching in all-perpendicular spin valve nanopillars. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 233-258. | 2.3 | 84 |
| 17 | Quantifying perpendicular magnetic anisotropy at the Fe-MgO(001) interface. Applied Physics Letters, 2013, 102, . | 3.3 | 83 |
| 18 | Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. Advanced Materials, 2019, 31, e1901681. | 21.0 | 81 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Magnetic anisotropy modified by electric field in V/Fe/MgO(001)/Fe epitaxial magnetic tunnel junction. Applied Physics Letters, 2013, 103, . | 3.3 | 79 |
| 20 | Interface domain wall and exchange bias phenomena in ferrimagnetic/ferrimagnetic bilayers. Physical Review B, 2003, 68, . | 3.2 | 77 |
| 21 | Ultrafast Magnetization Manipulation Using Single Femtosecond Light and Hot Electron Pulses. Advanced Materials, 2017, 29, 1703474. | 21.0 | 75 |
| 22 | Training Effect in an Exchange Bias System: The Role of Interfacial Domain Walls. Physical Review Letters, 2006, 96, 067207. | 7.8 | 71 |
| 23 | Spin-orbit torque-induced switching in ferrimagnetic alloys: Experiments and modeling. Applied Physics Letters, 2018, 112, . | 3.3 | 69 |
| 24 | Single-Shot Multi-Level All-Optical Magnetization Switching Mediated by Spin Transport. Advanced Materials, 2018, 30, e1804004. | 21.0 | 69 |
| 25 | Domain Wall Creation in Nanostructures Driven by a Spin-Polarized Current. Physical Review Letters, 2006, 96, 186604. | 7.8 | 67 |
| 26 | Domain size criterion for the observation of all-optical helicity-dependent switching in magnetic thin films. Physical Review B, 2016, 94, . | 3.2 | 66 |
| 27 | Electrical spin injection and detection in molybdenum disulfide multilayer channel. Nature Communications, 2017, 8, 14947. | 12.8 | 63 |
| 28 | Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. Nature Electronics, 2020, 3, 680-686. | 26.0 | 63 |
| 29 | Strong perpendicular magnetic anisotropy in Ni/Co(111) single crystal superlattices. Applied Physics Letters, 2009, 94, 262504. | 3.3 | 58 |
| 30 | Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector. Physical Review B, 2014, 90, . | 3.2 | 56 |
| 31 | Evidence of Exchange-Bias-Like Phenomenon in GdFe/TbFe/GdFe Domain Wall Junctions. Physical Review Letters, 1999, 82, 4336-4339. | 7.8 | 55 |
| 32 | Ferroelectric Control of Organic/Ferromagnetic Spinterface. Advanced Materials, 2016, 28, 10204-10210. | 21.0 | 55 |
| 33 | Helicity-dependent all-optical domain wall motion in ferromagnetic thin films. Physical Review B, 2018, 97, . | 3.2 | 53 |
| 34 | Positive exchange bias in ferromagnetic-ferrimagnetic bilayers: FeSn/FeGd. Europhysics Letters, 2000, 52, 594-600. | 2.0 | 52 |
| 35 | Electrical characterization of all-optical helicity-dependent switching in ferromagnetic Hall crosses. Applied Physics Letters, 2016, 108, . | 3.3 | 52 |
| 36 | Thermal Contribution to the Spin-Orbit Torque in Metallic-Ferrimagnetic Systems. Physical Review Applied, 2018, 9, . | 3.8 | 52 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Subpicosecond magnetization dynamics in TbCo alloys. Physical Review B, 2014, 89, . | 3.2 | 50 |
| 38 | Current-Induced Spin Torques on Single GdFeCo Magnetic Layers. Advanced Materials, 2021, 33, e2007047. | 21.0 | 46 |
| 39 | Cumulative minor loop growth in Co/Pt and Co/Pd multilayers. Physical Review B, 2010, 82, . | 3.2 | 45 |
| 40 | Nonuniform switching of the perpendicular magnetization in a spin-torque-driven magnetic nanopillar. Physical Review B, 2011, 83, . | 3.2 | 45 |
| 41 | Co/Ni(111) superlattices studied by microscopy, x-ray absorption, and <i>ab initio</i> calculations. Physical Review B, 2012, 86, . | 3.2 | 45 |
| 42 | X-Ray Diffraction Microscopy of Magnetic Structures. Physical Review Letters, 2011, 107, 033904. | 7.8 | 44 |
| 43 | Materials and devices for all-optical helicity-dependent switching. Journal Physics D: Applied Physics, 2017, 50, 133002. | 2.8 | 43 |
| 44 | Magnetoresistive effects in perpendicularly magnetized Tb-Co alloy based thin films and spin valves. Journal of Applied Physics, 2012, 111, . | 2.5 | 42 |
| 45 | Role of pinning in current driven domain wall motion in wires with perpendicular anisotropy. Applied Physics Letters, 2008, 93, 172513. | 3.3 | 39 |
| 46 | Investigating the role of superdiffusive currents in laser induced demagnetization of ferromagnets with nanoscale magnetic domains. Scientific Reports, 2014, 4, 4658. | 3.3 | 38 |
| 47 | Influence of growth parameters on the perpendicular magnetic anisotropy of [Co/Ni] multilayers and its temperature dependence. Journal of Applied Physics, 2009, 106, 023919. | 2.5 | 37 |
| 48 | Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. Physical Review Letters, 2015, 115, 157204. | 7.8 | 37 |
| 49 | Engineering Single-Shot All-Optical Switching of Ferromagnetic Materials. Nano Letters, 2020, 20, 8654-8660. | 9.1 | 37 |
| 50 | Perpendicular spin-torque switching with a synthetic antiferromagnetic reference layer. Applied Physics Letters, 2010, 96, . | 3.3 | 36 |
| 51 | Reversal mechanism, switching field distribution, and dipolar frustrations in Co/Pt bit pattern media based on auto-assembled anodic alumina hexagonal nanobump arrays. Physical Review B, 2014, 89, . | 3.2 | 36 |
| 52 | Interfacial magnetic domain wall formation in perpendicular-anisotropy, exchange-spring films. Applied Physics Letters, 2008, 92, 202507. | 3.3 | 35 |
| 53 | Independence of spin-orbit torques from the exchange bias direction in $N_{i_1}F_{i_2}Mn_{19}$ | 3.2 | 35 |
| 54 | Determination of spin Hall angle, spin mixing conductance, and spin diffusion length in CoFeB/Ir for spin-orbitronic devices. Physical Review B, 2020, 102, . | 3.2 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Picosecond acoustic-excitation-driven ultrafast magnetization dynamics in dielectric Bi-substituted yttrium iron garnet. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 34 |
| 56 | From Multiple- to Single-Pulse All-Optical Helicity-Dependent Switching in Ferromagnetic Co/Pt Multilayers. <i>Physical Review Applied</i> , 2019, 12, . | 3.8 | 34 |
| 57 | Optically Induced Phase Change for Magnetoresistance Modulation. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900104. | 3.9 | 34 |
| 58 | Positive exchange-bias induced by interface domain wall quenching in GdFe/TbFe films. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 33 |
| 59 | Transitions of magnetic configuration at the interface of exchange-coupled bilayers: TbFe/GdFe as a model system. <i>Physical Review B</i> , 2003, 67, . | 3.2 | 31 |
| 60 | Spin-transfer-torque reversal in perpendicular anisotropy spin valves with composite free layers. <i>Applied Physics Letters</i> , 2011, 99, . | 3.3 | 31 |
| 61 | Negative spin-valve effect in $\text{Co}_{65}\text{Fe}_{35}/\text{Ag}/(\text{Co}_{65}\text{Fe}_{35})_{50}\text{Gd}_{50}$ trilayers. <i>Physical Review B</i> , 1996, 53, 5082-5085. | 3.2 | 30 |
| 62 | Electrical spin injection into GaAs based light emitting diodes using perpendicular magnetic tunnel junction-type spin injector. <i>Applied Physics Letters</i> , 2016, 108, . | 3.3 | 30 |
| 63 | Energy Efficient Control of Ultrafast Spin Current to Induce Single Femtosecond Pulse Switching of a Ferromagnet. <i>Advanced Science</i> , 2020, 7, 2001996. | 11.2 | 30 |
| 64 | Magnetic behavior and resistivity of the domain-wall junction $\text{GdFe}(1000 \text{ \AA})/\text{TbFe}/\text{GdFe}(500 \text{ \AA})$. <i>Physical Review B</i> , 1998, 58, 2748-2757. | 3.2 | 29 |
| 65 | Engineering $\text{Co}_2\text{MnAl}/\text{Si}$ Heusler Compounds as a Model System to Correlate Spin Polarization, Intrinsic Gilbert Damping, and Ultrafast Demagnetization. <i>Advanced Materials</i> , 2020, 32, e1908357. | 21.0 | 29 |
| 66 | Telegraph noise due to domain wall motion driven by spin current in perpendicular magnetized nanopillars. <i>Applied Physics Letters</i> , 2009, 94, . | 3.3 | 28 |
| 67 | Magnetization switching diagram of a perpendicular synthetic ferrimagnet $\text{CoFeB}/\text{Ta}/\text{CoFeB}$ bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 433, 91-97. | 2.3 | 28 |
| 68 | Co/Ni multilayers for spintronics: High spin polarization and tunable magnetic anisotropy. <i>Physical Review Materials</i> , 2018, 2, . | 2.4 | 28 |
| 69 | From the superparamagnetic to the magnetically ordered state in systems of transition metal clusters embedded in matrices. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 42-45. | 2.3 | 25 |
| 70 | Control of the magnetic anisotropy of GdFe thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 161-164. | 2.3 | 25 |
| 71 | Influence of interface exchange coupling in perpendicular anisotropy Pt/MnTe . <i>Physical Review B</i> , 2008, 78, . | 3.2 | 25 |
| 72 | State diagram of nanopillar spin valves with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Asymmetric switching behavior in perpendicularly magnetized spin-valve nanopillars due to the polarizer dipole field. Applied Physics Letters, 2012, 100, 062404. | 3.3 | 25 |
| 74 | Periodic arrays of magnetic nanostructures by depositing Co/Pt multilayers on the barrier layer of ordered anodic alumina templates. Applied Physics Letters, 2012, 101, . | 3.3 | 25 |
| 75 | Exchange-bias training effect in TbFe \hat{e} \cdot GdFe: Micromagnetic mechanism. Physical Review B, 2007, 76, . | 3.2 | 24 |
| 76 | Electrical spin injection into InGaAs/GaAs quantum wells: A comparison between MgO tunnel barriers grown by sputtering and molecular beam epitaxy methods. Applied Physics Letters, 2014, 105, 012404. | 3.3 | 24 |
| 77 | Mapping motion of antiferromagnetic interfacial uncompensated magnetic moment in exchange-biased bilayers. Scientific Reports, 2015, 5, 9183. | 3.3 | 24 |
| 78 | Femtosecond Laser-Excitation-Driven High Frequency Standing Spin Waves in Nanoscale Dielectric Thin Films of Iron Garnets. Physical Review Letters, 2019, 123, 027202. | 7.8 | 24 |
| 79 | Influence of the cooperative Jahn-Teller effect on the transport and magnetic properties of La $\frac{7}{8}$ Sr $\frac{1}{8}$ MnO $\frac{3}{2}$ single crystals. Physical Review B, 2000, 61, 529-537. | 3.2 | 23 |
| 80 | Distortion of the Stoner-Wohlfarth astroid by a spin-polarized current. Physical Review B, 2009, 79, . | 3.2 | 23 |
| 81 | From single to multiple pulse all-optical switching in GdFeCo thin films. Physical Review B, 2019, 100, . | 3.2 | 23 |
| 82 | All-optical Helicity-Independent Switching State Diagram in $Gd - Fe$ | 3.8 | 23 |
| 83 | Coherent Resonant Tunneling through Double Metallic Quantum Well States. Nano Letters, 2019, 19, 3019-3026. | 9.1 | 22 |
| 84 | Mechanism of chirality reversal for planar interface domain walls in exchange-coupled hard/soft magnetic bilayers. Physical Review B, 2008, 78, . | 3.2 | 21 |
| 85 | Influence of lateral domains and interface domain walls on exchange-bias phenomena in GbFe \hat{e} \cdot TdFebilayers. Physical Review B, 2006, 74, . | 3.2 | 20 |
| 86 | Magnetic susceptibility measurements as a probe of spin transfer driven magnetization dynamics. Applied Physics Letters, 2010, 96, . | 3.3 | 19 |
| 87 | Time-resolved magnetic relaxation of a nanomagnet on subnanosecond time scales. Physical Review B, 2012, 85, . | 3.2 | 19 |
| 88 | Manipulating exchange bias using all-optical helicity-dependent switching. Physical Review B, 2017, 96, . | 3.2 | 19 |
| 89 | Hot-electron transport and ultrafast magnetization dynamics in magnetic multilayers and nanostructures following femtosecond laser pulse excitation. European Physical Journal B, 2018, 91, 1. | 1.5 | 19 |
| 90 | Strain-Enhanced Charge-to-Spin Conversion in $Ta - Fe - Pt$ Multilayers Grown on Flexible Mica Substrate. Physical Review Applied, 2019, 12, . | 3.8 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91 | Magnetization reversal in exchange-coupled GdFe/TbFe studied by x-ray magnetic circular dichroism. Physical Review B, 2004, 70, . | 3.2 | 18 |
| 92 | Asymmetric magnetization reversal in dipolarly coupled spin valve structures with perpendicular magnetic anisotropy. Physical Review B, 2012, 85, . | 3.2 | 18 |
| 93 | Dynamical measurements of nucleation and propagation in a domain wall junction at low temperature. Europhysics Letters, 1997, 39, 675-683. | 2.0 | 17 |
| 94 | Resolving the role of magnetic circular dichroism in multishot helicity-dependent all-optical switching. Physical Review B, 2019, 100, . | 3.2 | 17 |
| 95 | Separation of low- and high-temperature contributions to the exchange bias in Ni ₈₁ Fe ₁₉ thin films. Physical Review B, 2013, 88, . | 3.2 | 16 |
| 96 | Generation and manipulation of domain walls using a thermal gradient in a ferrimagnetic TbCo wire. Applied Physics Letters, 2015, 106, . | 3.3 | 16 |
| 97 | Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. Nano Letters, 2018, 18, 2381-2386. | 9.1 | 16 |
| 98 | Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. Nanoscale, 2018, 10, 10213-10220. | 5.6 | 16 |
| 99 | Damping of Standing Spin Waves in Bismuth-Substituted Yttrium Iron Garnet as Seen via the Time-Resolved Magneto-Optical Kerr Effect. Physical Review Applied, 2019, 12, . | 3.8 | 16 |
| 100 | Direct Imaging of Chiral Domain Walls and Néel-Type Skyrmionium in Ferrimagnetic Alloys. Advanced Functional Materials, 2021, 31, 2102307. | 14.9 | 16 |
| 101 | Magnetic relaxation in GdFe/TbFe/GdFe trilayers: Dynamic study of the propagation of a 180° domain wall through an artificial energy barrier. Physical Review B, 1999, 60, 1204-1210. | 3.2 | 15 |
| 102 | Exchange bias like effect induced by domain walls in FeGd/FeSn bilayers. European Physical Journal B, 2003, 34, 381-394. | 1.5 | 15 |
| 103 | Torque approach for tuning exchange bias training effect in polycrystalline NiFe/FeMn bilayers. Applied Physics Letters, 2011, 98, 122507. | 3.3 | 15 |
| 104 | Magnetic field and temperature control over Pt/Co/Ir/Co/Pt multistate magnetic logic device. Superlattices and Microstructures, 2017, 104, 509-517. | 3.1 | 15 |
| 105 | Nonmonotonic aftereffect measurements in perpendicular synthetic ferrimagnets. Physical Review B, 2018, 98, . | 3.2 | 15 |
| 106 | Controlling All-Optical Helicity-Dependent Switching in Engineered Rare-Earth Free Synthetic Ferrimagnets. Advanced Science, 2019, 6, 1901876. | 11.2 | 15 |
| 107 | Synthesis of iron oxide films by reactive magnetron sputtering assisted by plasma emission monitoring. Materials Chemistry and Physics, 2019, 223, 360-365. | 4.0 | 15 |
| 108 | Quenching of Spin Polarization Switching in Organic Multiferroic Tunnel Junctions by Ferroelectric Ailing-Channel in Organic Barrier. ACS Applied Materials & Interfaces, 2018, 10, 30614-30622. | 8.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Role of spin-lattice coupling in ultrafast demagnetization and all optical helicity-independent single-shot switching in Gd/Pt alloys. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 14 |
| 110 | Angle dependence of the interface magnetic configuration in a model antiferromagnetically coupled ferrimagnetic/ferrimagnetic bilayer GdFe/TbFe . <i>Physical Review B</i> , 2009, 80, . | 3.2 | 13 |
| 111 | Magnetoresistance in an amorphous exchange-coupled bilayer. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 13 |
| 112 | Effect of microwave irradiation on spin-torque-driven magnetization precession in nanopillars with magnetic perpendicular anisotropy. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 13 |
| 113 | Influence of the Cr and Ni concentration in CoCr and CoNi alloys on the structural and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 391-396. | 2.3 | 13 |
| 114 | Energy-Efficient Domain-Wall Motion Governed by the Interplay of Helicity-Dependent Optical Effect and Spin-Orbit Torque. <i>Physical Review Applied</i> , 2019, 11, . | 3.8 | 13 |
| 115 | Tuneable perpendicular magnetic anisotropy in single crystal $[\text{Co}/\text{Ni}](111)$ superlattices. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 12, 012018. | 0.6 | 12 |
| 116 | Switching field distributions with spin transfer torques in perpendicularly magnetized spin-valve nanopillars. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 12 |
| 117 | Thermally activated domain wall motion in $[\text{Co}/\text{Ni}](111)$ superlattices with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 12 |
| 118 | Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metal/Silicon/Metal Vertical Structures. <i>Nano Letters</i> , 2019, 19, 90-99. | 9.1 | 12 |
| 119 | Spin-transport Mediated Single-shot All-optical Magnetization Switching of Metallic Films. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 081009. | 1.6 | 12 |
| 120 | Light induced ultrafast magnetization dynamics in metallic compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169596. | 2.3 | 12 |
| 121 | Static and dynamical study of the passage of a 180° domain wall over an artificial energy barrier. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 13-16. | 2.3 | 11 |
| 122 | Influence of strain on the anti-ferromagnetic ordering in epitaxial Cr(001) films on MgO. <i>Thin Solid Films</i> , 2002, 414, 262-269. | 1.8 | 11 |
| 123 | Tuning exchange-bias properties by thermal effects in a hard/soft bilayer. <i>Applied Physics Letters</i> , 2007, 91, 022505. | 3.3 | 11 |
| 124 | Current induced domain wall states in CPP nanopillars with perpendicular anisotropy. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1253-1256. | 2.8 | 11 |
| 125 | Temperature dependence of the switching field in all-perpendicular spin-valve nanopillars. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 11 |
| 126 | Comparison between Ir, Ir _{0.85} Rh _{0.15} and Ir _{0.7} Rh _{0.3} thin films as electrodes for surface acoustic waves applications above 800 °C in air atmosphere. <i>Sensors and Actuators A: Physical</i> , 2017, 266, 211-218. | 4.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Bias Dependence of the Electrical Spin Injection into GaAs from $\text{Co}/\text{MgO}/\text{Fe}/\text{MgO}$ Injectors with Different MgO Growth Processes. <i>Physical Review Applied</i> , 2017, 8, . | 3.8 | 11 |
| 128 | Asymmetric Magnetization Switching in Perpendicular Magnetic Tunnel Junctions: Role of the Synthetic Antiferromagnet's Fringe Field. <i>Physical Review Applied</i> , 2019, 11, . | 3.8 | 11 |
| 129 | Large exchange-dominated domain wall velocities in antiferromagnetically coupled nanowires. <i>AIP Advances</i> , 2016, 6, . | 1.3 | 10 |
| 130 | Influence of the magnetic field sweeping rate on magnetic transitions in synthetic ferrimagnets with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2019, 114, . | 3.3 | 10 |
| 131 | Magnetic Properties and Magnetocaloric Effect in $\text{Gd}_{100-x}\text{Co}_x$ Thin Films. <i>Crystals</i> , 2019, 9, 278. | 2.2 | 10 |
| 132 | Engineering the magnetocaloric properties of PrVO_3 epitaxial oxide thin films by strain effects. <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 10 |
| 133 | Temperature dependence of the energy barrier in $X/1X$ nm shape-anisotropy magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2021, 118, . | 3.3 | 10 |
| 134 | <i>Ab Initio</i> Study of Helicity-Dependent Light-Induced Demagnetization: From the Optical Regime to the Extreme Ultraviolet Regime. <i>Nano Letters</i> , 2021, 21, 1943-1947. | 9.1 | 10 |
| 135 | In vivo and in vitro evaluation of specially designed gold and carbon fiber oxygen microelectrodes for living tissues. <i>Sensors and Actuators B: Chemical</i> , 1997, 44, 316-320. | 7.8 | 9 |
| 136 | Exchange bias phenomena in ferrimagnetic based bilayers. <i>Journal of Applied Physics</i> , 2001, 89, 6916-6918. | 2.5 | 9 |
| 137 | Magnetic behavior of exchange-coupled $\text{Fe}_{30}\text{Au}_{70}/\text{Fe}_{65}\text{Au}_{35}$ bilayers. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 9 |
| 138 | Domain wall motion in nanopillar spin-valves with perpendicular anisotropy driven by spin-transfer torques. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 9 |
| 139 | Signature of magnetization dynamics in spin-transfer-driven nanopillars with tilted easy axis. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 9 |
| 140 | Perpendicularly magnetized CoFeB multilayers with tunable interlayer exchange for synthetic ferrimagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 260-265. | 2.3 | 9 |
| 141 | Inversion of the domain wall propagation in synthetic ferrimagnets. <i>Applied Physics Letters</i> , 2017, 111, . | 3.3 | 9 |
| 142 | Effect of the stray field of $\text{Fe}/\text{Fe}_3\text{O}_4$ nanoparticles on the surface of the CoFeB thin films. <i>Applied Surface Science</i> , 2020, 527, 146836. | 6.1 | 9 |
| 143 | Chirality reversal of the interface domain wall in a hard/soft magnetic bilayer. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 8 |
| 144 | Influence of an interface domain wall on spin-valve giant magnetoresistance. <i>Applied Physics Letters</i> , 2008, 93, 222503. | 3.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 145 | Current-induced magnetization reversal in terms of power dissipation. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 8 |
| 146 | Remote microwave monitoring of magnetization switching in CoFeB/Ta/CoFeB spin logic device. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 8 |
| 147 | Relaxation dynamics of magnetization transitions in synthetic antiferromagnet with perpendicular anisotropy. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 135804. | 1.8 | 8 |
| 148 | Engineered Gd-Co based multilayer stack to enhanced magneto-caloric effect and relative cooling power. <i>Journal of Applied Physics</i> , 2018, 123, . | 2.5 | 8 |
| 149 | Generation of spin waves via spin-phonon interaction in a buried dielectric thin film. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 8 |
| 150 | Current-Induced Pinwheel Oscillations in Perpendicular Magnetic Anisotropy Spin Valve Nanopillars. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-5. | 2.1 | 7 |
| 151 | Electrical transport properties of black phosphorus based field-effect transistor with Au/Co/MgO tunneling contacts. <i>Journal of Applied Physics</i> , 2017, 122, 164301. | 2.5 | 7 |
| 152 | Magnetic aftereffects in CoFeB/Ta/CoFeB spin valves of large area. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 7 |
| 153 | Tunable magneto-caloric effect in Gd _{1-x} Tbx heterostructures thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 1-3. | 2.3 | 7 |
| 154 | Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018, 10, . | 3.8 | 7 |
| 155 | Statistical study of domain-wall depinning induced by magnetic field and current in an epitaxial Co/Ni-based spin-valve wire. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 7 |
| 156 | Domain-wall motion induced by spin transfer torque delivered by helicity-dependent femtosecond laser. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 7 |
| 157 | Is terahertz emission a good probe of the spin current attenuation length?. <i>Applied Physics Letters</i> , 2022, 121, . | 3.3 | 7 |
| 158 | Observation of a well characterized 180° domain wall by polarized neutron reflectometry. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 558-559. | 2.7 | 6 |
| 159 | Study of magnetic configurations in exchange-coupled bilayers by polarized neutron reflectometry. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s631-s633. | 2.3 | 6 |
| 160 | Temperature dependent nucleation, propagation, and annihilation of domain walls in all-perpendicular spin-valve nanopillars. <i>Journal of Applied Physics</i> , 2014, 115, 113910. | 2.5 | 6 |
| 161 | Bimodal switching field distributions in all-perpendicular spin-valve nanopillars. <i>Journal of Applied Physics</i> , 2014, 115, 17C707. | 2.5 | 6 |
| 162 | Effect of spin transfer torque on domain wall motion regimes in [Co/Ni] superlattice wires. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 163 | Suppression of all-optical switching in He+â€%-irradiated Co/Pt multilayers: influence of the domain-wall energy. Journal Physics D: Applied Physics, 2018, 51, 215004. | 2.8 | 6 |
| 164 | Ab initio theory of magnetization induced by light absorption in ferromagnets. Physical Review B, 2019, 100, . | 3.2 | 6 |
| 165 | Increased energy efficiency spin-torque switching of magnetic tunnel junction devices with a higher order perpendicular magnetic anisotropy. Applied Physics Letters, 2019, 114, 012404. | 3.3 | 6 |
| 166 | Current-induced generation of skyrmions in Pt/Co/Os/Pt thin films. Physical Review B, 2020, 102, . | 3.2 | 6 |
| 167 | Role of induced exchange bias in zero field spin-orbit torque magnetization switching in Pt/[Ni/Co]/PtMn. AIP Advances, 2020, 10, . | 1.3 | 6 |
| 168 | Dynamic Symmetry Breaking in Chiral Magnetic Systems. Advanced Materials, 2021, 33, e2101524. | 21.0 | 6 |
| 169 | On/Off Ultra-Short Spin Current for Single Pulse Magnetization Reversal in a Magnetic Memory Using VO ₂ Phase Transition. Advanced Electronic Materials, 2022, 8, . | 5.1 | 6 |
| 170 | Temperature dependence of the interlayer exchange coupling in MBE-grown Fe/Cr/Fe sandwiches. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 303-305. | 2.3 | 5 |
| 171 | Current-induced magnetization reversal in nanopillars with perpendicular anisotropy. , 2006, , . | | 5 |
| 172 | Origin of the magneto-thermoelectric voltage in cluster-assembled metallic nanostructures. Nature Materials, 2008, 7, 257-257. | 27.5 | 5 |
| 173 | Composition-controlled exchange bias training effect in FeCr/IrMn bilayers. European Physical Journal B, 2011, 84, 173-176. | 1.5 | 5 |
| 174 | Energy-resolved magnetic domain imaging in TbCo alloys by valence band photoemission magnetic circular dichroism. Physical Review B, 2013, 88, . | 3.2 | 5 |
| 175 | Ferromagnetic resonance of CoFeB/Ta/CoFeB spin valves versus CoFeB film. Thin Solid Films, 2017, 640, 8-13. | 1.8 | 5 |
| 176 | State diagram of a perpendicular magnetic tunnel junction driven by spin transfer torque: A power dissipation approach. Journal of Magnetism and Magnetic Materials, 2017, 428, 293-299. | 2.3 | 5 |
| 177 | Effect of Co layer thickness on magnetic relaxation in Pt/Co/Ir/Co/Pt/GaAs spin valve. Journal of Magnetism and Magnetic Materials, 2018, 459, 33-36. | 2.3 | 5 |
| 178 | Co - Fe - B/MgO/Ge Spin Photodiode Operating at Telecommunication Wavelength with Zero Applied Magnetic Field. Physical Review Applied, 2018, 10, . | 3.8 | 5 |
| 179 | Evidence of a strong perpendicular magnetic anisotropy in Au/Co/MgO/GaN heterostructures. Nanoscale Advances, 2019, 1, 4466-4475. | 4.6 | 5 |
| 180 | Optoelectronic domain-wall motion for logic computing. Applied Physics Letters, 2020, 116, 252403. | 3.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 181 | Effect of Fe/Fe ₃ O ₄ Nanoparticles Stray Field on the Microwave Magnetoresistance of a CoFeB/Ta/CoFeB Synthetic Ferrimagnet. ACS Sensors, 2021, 6, 4315-4324. | 7.8 | 5 |
| 182 | New Trends in Magnetic Exchange Bias. European Physical Journal B, 2005, 45, 155-155. | 1.5 | 4 |
| 183 | Frequency dependence of the longitudinal spin Seebeck effect. Physical Review B, 2018, 98, . | 3.2 | 4 |
| 184 | <i>Ab initio</i> study of electronic temperature effects on magnetic materials properties. Physical Review B, 2019, 99, . | 3.2 | 4 |
| 185 | Tailoring femtosecond hot-electron pulses for ultrafast spin manipulation. Applied Physics Letters, 2020, 117, . | 3.3 | 4 |
| 186 | Magnetization Reversal of Ferromagnetic CoFeB Films and CoFeB/Ta/CoFeB Heterostructures in the Stray Field of Fe/Fe ₃ O ₄ Nanoparticles. Journal of Experimental and Theoretical Physics, 2020, 131, 607-617. | 0.9 | 4 |
| 187 | Current Induced Switching of the Hard Layer in Perpendicular Magnetic Nanopillars. IEEE Transactions on Magnetics, 2010, 46, 2328-2330. | 2.1 | 3 |
| 188 | Origins of large light induced voltage in magnetic tunnel junctions grown on semiconductor substrates. Journal of Applied Physics, 2016, 119, 023907. | 2.5 | 3 |
| 189 | Current-driven transverse domain wall oscillations in perpendicular spin-valve structures. Physical Review B, 2020, 102, . | 3.2 | 3 |
| 190 | The magnetic structure of epitaxial Cr films on MgO. Physica B: Condensed Matter, 2000, 276-278, 738-739. | 2.7 | 2 |
| 191 | Strong magnetocaloric effect induced by spin reorientation transitions in epitaxial Ho thin films. Physical Review B, 2020, 102, . | 3.2 | 2 |
| 192 | Dzyaloshinskii-Moriya interaction probed by magnetization reversal in bilayer Pt/Co/Ir/Co/Pt synthetic ferrimagnets. Physical Review B, 2021, 104, . | 3.2 | 2 |
| 193 | Large anisotropic magnetocaloric effect in all-sputtered epitaxial terbium thin films. Physical Review Materials, 2020, 4, . | 2.4 | 2 |
| 194 | Dzyaloshinskii-Moriya interaction determined from spin wave nonreciprocity and magnetic bubble asymmetry in Pt/Co/Ir/Co/Pt synthetic ferrimagnets. Journal of Physics Condensed Matter, 2022, 34, 085803. | 1.8 | 2 |
| 195 | The Influence of Magnetic Anisotropy on Current-Induced Spindynamics. Springer Tracts in Modern Physics, 2013, , 1-35. | 0.1 | 1 |
| 196 | Kerr and Faraday microscope for space- and time-resolved studies. European Physical Journal B, 2014, 87, 1. | 1.5 | 1 |
| 197 | Torque magnetometry of perpendicular anisotropy exchange-spring heterostructures. Journal of Applied Physics, 2016, 120, 013903. | 2.5 | 1 |
| 198 | Ferromagnetic resonance in monocrystalline spin valves CoFeB/Ta/CoFeB and CoFeB films with perpendicular magnetic anisotropy. Physics of the Solid State, 2017, 59, 1553-1557. | 0.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 199 | Towards Thermal Reading of Magnetic States in Hall Crosses. Physical Review Applied, 2018, 9, . | 3.8 | 1 |
| 200 | Surface engineering of magnetic and mechanical properties of Ta/Pt/GdFeCo/IrMn/Pt heterostructures by femtosecond laser pulses. Applied Surface Science, 2019, 493, 470-477. | 6.1 | 1 |
| 201 | Electronic and magnetic properties of the multiferroic TbMn2O5. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 2.3 | 1 |
| 202 | Influence of magnetic domain-wall width and shape on magnetoresistance measurements. Journal of Applied Physics, 2001, 89, 7203-7205. | 2.5 | 0 |
| 203 | Study of exchange bias field variation in ferrimagnetic/ferrimagnetic bilayer system. , 0, , . | | 0 |
| 204 | Two Curie temperatures in a single iron thin film. , 0, , . | | 0 |
| 205 | Study of exchange bias field variation in ferrimagnetic/ferrimagnetic bilayer system. , 0, , . | | 0 |
| 206 | Switching probability in all-perpendicular spin valves. , 2010, , . | | 0 |
| 207 | Control and generation of domain walls near magnetic compensation in ferrimagnetic CoTb via applied thermal gradient. , 2015, , . | | 0 |
| 208 | Laser powered magnetic-random access memory. , 2015, , . | | 0 |
| 209 | Thermally activated domain wall motion in [Co/Ni](111) superlattices with perpendicular magnetic anisotropy. , 2015, , . | | 0 |
| 210 | Spin light emitting diode with CoFeB/MgO spin injector. , 2015, , . | | 0 |
| 211 | All-optical control of ferromagnetic thin films and nanostructures: Competition between polarized light and applied magnetic field. , 2015, , . | | 0 |
| 212 | Microwave response to the magnetization switching of CoFeB/Ta/CoFeB spin valves and CoFeB films. Physics of the Solid State, 2017, 59, 1947-1951. | 0.6 | 0 |
| 213 | Competition between domain walls and the reverse magnetization in the magnetic relaxation of a Pt/Co/Ir/Co/Pt spin switcher. Physics of the Solid State, 2018, 60, 75-78. | 0.6 | 0 |
| 214 | Spin transfer torque magnetization reversal in a hard/soft composite structures. AIP Advances, 2018, 8, 015024. | 1.3 | 0 |
| 215 | Interaction of Magnetization Centers of Different Signs as the Cause of the Nonmonotonic Field Dependence of the Domain Wall Velocity in Synthetic Pt/Co/Ir/Co/Pt Ferrimagnets. Journal of Experimental and Theoretical Physics, 2019, 129, 998-1004. | 0.9 | 0 |
| 216 | Very efficient electrical spin injection (/detection) into quantum dots at zero magnetic field. , 2017, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 217 | Change in blocking temperature of nanoparticle array deposited on magnetoresistive sensor. Journal of Magnetism and Magnetic Materials, 2022, 551, 169096. | 2.3 | 0 |