

Stephen McVitie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9341474/publications.pdf>

Version: 2024-02-01

150
papers

3,850
citations

117453

34
h-index

143772

57
g-index

151
all docs

151
docs citations

151
times ranked

3336
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Measuring and tailoring the Dzyaloshinskii-Moriya interaction in perpendicularly magnetized thin films. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 351 |
| 2 | Modified differential phase contrast Lorentz microscopy for improved imaging of magnetic structures. <i>IEEE Transactions on Magnetics</i> , 1990, 26, 1506-1511. | 1.2 | 156 |
| 3 | Dependence of domain wall pinning potential landscapes on domain wall chirality and pinning site geometry in planar nanowires. <i>Physical Review B</i> , 2009, 79, . | 1.1 | 135 |
| 4 | Coherent magnetic imaging by TEM. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 4479-4484. | 1.2 | 119 |
| 5 | Magnetic microscopy and topological stability of homochiral Néel domain walls in a Pt/Co/AlOx trilayer. <i>Nature Communications</i> , 2015, 6, 8957. | 5.8 | 117 |
| 6 | Pixelated detectors and improved efficiency for magnetic imaging in STEM differential phase contrast. <i>Ultramicroscopy</i> , 2016, 165, 42-50. | 0.8 | 109 |
| 7 | Chiral Surface Twists and Skyrmion Stability in Nanolayers of Cubic Helimagnets. <i>Physical Review Letters</i> , 2016, 117, 087202. | 2.9 | 109 |
| 8 | Magnetic soliton confinement and discretization effects arising from macroscopic coherence in a chiral spin soliton lattice. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 102 |
| 9 | Optical properties of Mn-doped ZnS semiconductor nanoclusters synthesized by a hydrothermal process. <i>Optical Materials</i> , 2011, 33, 308-314. | 1.7 | 101 |
| 10 | Internal structure of hexagonal skyrmion lattices in cubic helimagnets. <i>New Journal of Physics</i> , 2016, 18, 095004. | 1.2 | 82 |
| 11 | The fabrication and magnetic properties of acicular magnetic nano-elements. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 4452-4457. | 1.2 | 77 |
| 12 | Switching of nanoscale magnetic elements. <i>Applied Physics Letters</i> , 1999, 75, 3683-3685. | 1.5 | 76 |
| 13 | Aberration corrected Lorentz scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2015, 152, 57-62. | 0.8 | 74 |
| 14 | In-situ magnetising experiments on small regularly shaped permalloy particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 95, 76-84. | 1.0 | 68 |
| 15 | Investigation of the influence of edge structure on the micromagnetic behavior of small magnetic elements. <i>Journal of Applied Physics</i> , 2000, 87, 2994-2999. | 1.1 | 62 |
| 16 | Pinning and hysteresis in the field dependent diameter evolution of skyrmions in Pt/Co/Ir superlattice stacks. <i>Scientific Reports</i> , 2017, 7, 15125. | 1.6 | 61 |
| 17 | Direct observation of magnetization reversal processes in micron-sized elements of spin-valve material. <i>Journal of Applied Physics</i> , 1998, 83, 5321-5325. | 1.1 | 59 |
| 18 | Artificial Double-Helix for Geometrical Control of Magnetic Chirality. <i>ACS Nano</i> , 2020, 14, 8084-8092. | 7.3 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Quantitative Fresnel Lorentz microscopy and the transport of intensity equation. Ultramicroscopy, 2006, 106, 423-431. | 0.8 | 56 |
| 20 | On the origin of differential phase contrast at a locally charged and globally charge-compensated domain boundary in a polar-ordered material. Ultramicroscopy, 2015, 154, 57-63. | 0.8 | 53 |
| 21 | Role of vortices in magnetization reversal of rectangular NiFe elements. Journal Physics D: Applied Physics, 2001, 34, 160-166. | 1.3 | 51 |
| 22 | Controlled domain wall injection into ferromagnetic nanowires from an optimized pad geometry. Applied Physics Letters, 2007, 91, 022506. | 1.5 | 51 |
| 23 | Quantitative field measurements from magnetic force microscope tips and comparison with point and extended charge models. Journal of Applied Physics, 2001, 89, 3656-3661. | 1.1 | 49 |
| 24 | Stability, bistability and instability of amorphous ZrO ₂ resistive memory devices. Journal Physics D: Applied Physics, 2016, 49, 095111. | 1.3 | 48 |
| 25 | Magnetic structure determination in small regularly shaped particle using transmission electron microscopy. IEEE Transactions on Magnetics, 1988, 24, 1778-1780. | 1.2 | 46 |
| 26 | Quantitative imaging of magnetic domain walls in thin films using Lorentz and magnetic force microscopies. Journal of Applied Physics, 2001, 90, 5220-5227. | 1.1 | 45 |
| 27 | Imaging magnetic domain structure in sub-500 nm thin film elements. Journal of Applied Physics, 2001, 89, 7174-7176. | 1.1 | 42 |
| 28 | Magnetic properties of magnetite arrays produced by the method of electron beam lithography. Geophysical Research Letters, 1996, 23, 2847-2850. | 1.5 | 39 |
| 29 | Direct observation of domain wall structures in curved permalloy wires containing an antinotch. Journal of Applied Physics, 2008, 103, . | 1.1 | 39 |
| 30 | Fast Pixelated Detectors in Scanning Transmission Electron Microscopy. Part I: Data Acquisition, Live Processing, and Storage. Microscopy and Microanalysis, 2020, 26, 653-666. | 0.2 | 39 |
| 31 | Complex free-space magnetic field textures induced by three-dimensional magnetic nanostructures. Nature Nanotechnology, 2022, 17, 136-142. | 15.6 | 39 |
| 32 | In-situ magnetising experiments using coherent magnetic imaging in TEM. Journal of Magnetism and Magnetic Materials, 1995, 148, 232-236. | 1.0 | 38 |
| 33 | A transmission electron microscope study of Néel skyrmion magnetic textures in multilayer thin film systems with large interfacial chiral interaction. Scientific Reports, 2018, 8, 5703. | 1.6 | 38 |
| 34 | Electron beam fabrication and characterization of high-resolution magnetic force microscopy tips. Journal of Applied Physics, 1996, 79, 2913-2919. | 1.1 | 37 |
| 35 | Metastable magnetic domain walls in cylindrical nanowires. Journal of Magnetism and Magnetic Materials, 2015, 381, 457-462. | 1.0 | 37 |
| 36 | Mapping induction distributions by transmission electron microscopy (invited). Journal of Applied Physics, 1991, 69, 6078-6083. | 1.1 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Introduction and control of metastable states in elliptical and rectangular magnetic nanoelements. Applied Physics Letters, 2004, 84, 4406-4408. | 1.5 | 33 |
| 38 | Interactions and switching field distributions of nanoscale magnetic elements. Journal of Applied Physics, 2000, 87, 5105-5107. | 1.1 | 32 |
| 39 | High resolution measurement and modelling of magnetic domain structures in epitaxial FePd (001) L10 films with perpendicular magnetisation. Journal of Magnetism and Magnetic Materials, 2001, 223, 138-146. | 1.0 | 32 |
| 40 | Direct observation of changes to domain wall structures in magnetic nanowires of varying width. Applied Physics Letters, 2008, 93, 202505. | 1.5 | 32 |
| 41 | Reversal Mechanisms in Lithographically Defined Magnetic Thin Film Elements Imaged by Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 1997, 3, 146-153. | 0.2 | 29 |
| 42 | Anomalous Temperature Behavior of the Chiral Spin Helix in CrNb_3S_6 Thin Lamellae. Physical Review Letters, 2019, 122, 017204. | 1.9 | 29 |
| 43 | Revealing 3D magnetization of thin films with soft X-ray tomography: magnetic singularities and topological charges. Nature Communications, 2020, 11, 6382. | 5.8 | 29 |
| 44 | A new design of specimen stage for in situ magnetising experiments in the transmission electron microscope. Ultramicroscopy, 2004, 99, 65-72. | 0.8 | 28 |
| 45 | Synthetic ferrimagnet nanowires with very low critical current density for coupled domain wall motion. Scientific Reports, 2017, 7, 1640. | 1.6 | 28 |
| 46 | Order and disorder in the magnetization of the chiral crystal CrNb_3S_6 . Physical Review B, 2019, 99, . | 1.1 | 27 |
| 47 | Controlled Individual Skyrmion Nucleation at Artificial Defects Formed by Ion Irradiation. Small, 2020, 16, e1907450. | 5.2 | 27 |
| 48 | Lorentz microscopy studies of domain wall trap structures. Journal of Applied Physics, 2006, 100, 033902. | 1.1 | 25 |
| 49 | Reproducible domain wall pinning by linear non-topographic features in a ferromagnetic nanowire. Applied Physics Letters, 2012, 100, 232402. | 1.5 | 25 |
| 50 | Brillouin light scattering study of magnetic-element normal modes in a square artificial spin ice geometry. Journal Physics D: Applied Physics, 2017, 50, 015003. | 1.3 | 25 |
| 51 | Superferromagnetism and Domain-Wall Topologies in Artificial "Pinwheel" Spin Ice. ACS Nano, 2019, 13, 2213-2222. | 7.3 | 25 |
| 52 | Reversal mechanisms and metastable states in magnetic nanoelements. Journal of Applied Physics, 2004, 96, 5173-5179. | 1.1 | 23 |
| 53 | Magnetic imaging of the pinning mechanism of asymmetric transverse domain walls in ferromagnetic nanowires. Applied Physics Letters, 2010, 97, 233102. | 1.5 | 23 |
| 54 | Quantitative TEM imaging of the magnetostructural and phase transitions in FeRh thin film systems. Scientific Reports, 2017, 7, 17835. | 1.6 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Direct comparison of domain wall behavior in permalloy nanowires patterned by electron beam lithography and focused ion beam milling. <i>Journal of Applied Physics</i> , 2011, 110, 083904. | 1.1 | 22 |
| 56 | In-situ magnetising experiments on small regular particles fabricated by electron beam lithography. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 83, 223-224. | 1.0 | 21 |
| 57 | Quantitative imaging of hybrid chiral spin textures in magnetic multilayer systems by Lorentz microscopy. <i>Physical Review B</i> , 2019, 100, . | 1.1 | 21 |
| 58 | Strong magnon-photon coupling with chip-integrated YIG in the zero-temperature limit. <i>Applied Physics Letters</i> , 2021, 119, . | 1.5 | 20 |
| 59 | Measurement of domain wall widths in Permalloy using differential phase contrast imaging in stem. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 83, 97-98. | 1.0 | 19 |
| 60 | Damage caused to interlayer coupling of magnetic multilayers by residual gases. <i>Physical Review B</i> , 2000, 61, 4131-4140. | 1.1 | 19 |
| 61 | Modification of the magnetic properties of exchange coupled NiFe/FeMn films by Ga ⁺ ion irradiation. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 731-734. | 1.0 | 19 |
| 62 | Thickness dependence of spin wave excitations in an artificial square spin ice-like geometry. <i>Journal of Applied Physics</i> , 2017, 121, . | 1.1 | 19 |
| 63 | Reconstruction of induction distributions in thin films from DPC images. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 104-107, 315-316. | 1.0 | 18 |
| 64 | Characterisation of MFM tip fields by electron tomography. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 4062-4064. | 1.2 | 17 |
| 65 | Medipix2/Timepix detector for time resolved Transmission Electron Microscopy. <i>Journal of Instrumentation</i> , 2011, 6, C12052-C12052. | 0.5 | 17 |
| 66 | Magnetisation distributions in thin film recording heads by Type II contrast. <i>IEEE Transactions on Magnetics</i> , 1990, 26, 1337-1339. | 1.2 | 16 |
| 67 | Tuning magnetic order with geometry: Thermalization and defects in two-dimensional artificial spin ices. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 16 |
| 68 | Spin-transfer torque efficiency measured using a Permalloy nanobridge. <i>Applied Physics Letters</i> , 2010, 97, 202505. | 1.5 | 15 |
| 69 | Crystallisation progress in Si-rich ultra-soft nanocomposite alloy fabricated by melt spinning. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 342-347. | 1.0 | 13 |
| 70 | Engineering Magnetic Domain-Wall Structure in Permalloy Nanowires. <i>Physical Review Applied</i> , 2015, 3, . | 1.5 | 13 |
| 71 | Antiferromagnetic-ferromagnetic phase domain development in nanopatterned FeRh islands. <i>Physical Review Materials</i> , 2018, 2, . | 0.9 | 13 |
| 72 | Transmission electron microscopy study of CoFe films with high saturation magnetization. <i>Journal of Applied Physics</i> , 2006, 100, 053915. | 1.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Very high resolution etching of magnetic nanostructures in organic gases. <i>Microelectronic Engineering</i> , 2008, 85, 988-991. | 1.1 | 12 |
| 74 | Visualization of vortex core polarity in NiFe nanodots by tilted Fresnel images. <i>Ultramicroscopy</i> , 2011, 111, 1276-1285. | 0.8 | 12 |
| 75 | Magnetic imaging of magnetic force microscope tips. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 148, 237-238. | 1.0 | 11 |
| 76 | Effect of substrate temperature on the magnetic properties of epitaxial sputter-grown Co/Pt. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 11 |
| 77 | Preparation of high-quality planar FeRh thin films for <i>in situ</i> TEM investigations. <i>Journal of Physics: Conference Series</i> , 2017, 903, 012022. | 0.3 | 11 |
| 78 | Heisenberg pseudo-exchange and emergent anisotropies in field-driven pinwheel artificial spin ice. <i>Physical Review B</i> , 2019, 100, . | 1.1 | 11 |
| 79 | Tensile deformations of the magnetic chiral soliton lattice probed by Lorentz transmission electron microscopy. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 11 |
| 80 | Magnetic force microscopy of soft magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 157-158, 555-556. | 1.0 | 10 |
| 81 | Electrostatic charging artefacts in Lorentz electron tomography of MFM tip stray fields. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 1326-1332. | 1.3 | 10 |
| 82 | On the scaling behaviour of cross-tie domain wall structures in patterned NiFe elements. <i>Europhysics Letters</i> , 2007, 80, 57003. | 0.7 | 10 |
| 83 | Formations of Narrow Stripes and Vortex-Antivortex Pairs in a Quasi-Two-Dimensional Ferromagnet $K_2\text{CuF}_4$. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 014702. | 0.7 | 10 |
| 84 | Direct visualization of the magnetostructural phase transition in nanoscale FeRh thin films using differential phase contrast imaging. <i>Physical Review Materials</i> , 2020, 4, . | 0.9 | 10 |
| 85 | Imaging Amperian currents by Lorentz microscopy. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 280-288. | 1.3 | 9 |
| 86 | Imaging domains in Co/Pt multilayers by magnetic force microscopy. <i>Applied Physics Letters</i> , 1995, 67, 2566-2568. | 1.5 | 8 |
| 87 | Coherent Lorentz Imaging of Soft, Thin-Film Magnetic Materials. <i>MRS Bulletin</i> , 1995, 20, 55-58. | 1.7 | 8 |
| 88 | Characterisation of FeBSiC coated MFM tips using Lorentz electron tomography and MFM. <i>IEEE Transactions on Magnetics</i> , 1999, 35, 3986-3988. | 1.2 | 8 |
| 89 | Focused ion beam irradiation of ferromagnetic thin films in the presence of an applied field. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 3348-3353. | 1.3 | 8 |
| 90 | Formation of Magnetic Structure by Domain Wall Confinement in Nanoconstriction. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2511-2514. | 1.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Resistive switching in ZrO ₂ films: physical mechanism for filament formation and dissolution. Journal of Physics: Conference Series, 2014, 522, 012045. | 0.3 | 8 |
| 92 | Electron tomography image reconstruction using data-driven adaptive compressed sensing. Scanning, 2016, 38, 251-276. | 0.7 | 8 |
| 93 | Asymmetric magnetic relaxation behavior of domains and domain walls observed through the FeRh first-order metamagnetic phase transition. Physical Review B, 2020, 102, . | 1.1 | 8 |
| 94 | The influence of evaporation rate on the domain structures of permalloy and cobalt small magnetic particles. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 329-330. | 1.0 | 7 |
| 95 | Comment on "Three-Dimensional, Spin-Resolved Structure of Magnetic Vortex and Antivortex States in Patterned Co Films Using Scanning Ion Microscopy with Polarization Analysis". Physical Review Letters, 2008, 100, 029703. | 2.9 | 7 |
| 96 | Influence of ion beam assisted deposition parameters on the growth of MgO and CoFeB. Journal of Applied Physics, 2012, 111, 07C117. | 1.1 | 7 |
| 97 | Preparation and characterisation of a new amorphous tip coating for application in magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 1999, 205, 131-135. | 1.0 | 6 |
| 98 | Transitions Between Vortex and Transverse Walls in NiFe Nano-Structures. IEEE Transactions on Magnetics, 2006, 42, 2966-2968. | 1.2 | 6 |
| 99 | Optimization of exposure parameters for lift-off process of sub-100 features using a negative tone electron beam resist. , 2012, , . | | 6 |
| 100 | Phase domain boundary motion and memristance in gradient-doped FeRh nanopillars induced by spin injection. Applied Physics Letters, 2021, 118, . | 1.5 | 6 |
| 101 | Multiple dark-field STEM: A new method for beam-sensitive polymers. Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 31-38. | 2.4 | 5 |
| 102 | Effects of gas damage on coupling and anisotropy in sputtered Co/Cu multilayers. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 408-411. | 1.0 | 5 |
| 103 | TEM studies of the switching characteristics of small permalloy elements as a function of field orientation. Journal Physics D: Applied Physics, 2003, 36, 3099-3102. | 1.3 | 5 |
| 104 | Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, II: K ₂ CuF ₄ Phase Transition. Microscopy and Microanalysis, 2021, 27, 1123-1132. | 0.2 | 5 |
| 105 | Visualization of Domain Wall Propagation in Ultra-Thin Co/Pt Films Using Transmission Electron Microscopy. , 1997, , 537-542. | | 5 |
| 106 | Model stray field calculations of a longitudinal recording medium. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 963-964. | 1.0 | 4 |
| 107 | Structural analysis of ion irradiated polycrystalline NiFe/FeMn exchange bias systems. European Physical Journal B, 2005, 45, 213-218. | 0.6 | 4 |
| 108 | Micromagnetic reversal behavior of multiscale permalloy elements. Journal of Applied Physics, 2007, 102, 013911. | 1.1 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Quantitative measurements of phase using the transport of intensity equation. Journal of Physics: Conference Series, 2008, 126, 012041. | 0.3 | 4 |
| 110 | Nanoscale physical microstructure and micromagnetic behaviour of CoIr film with negative anisotropy. Journal Physics D: Applied Physics, 2011, 44, 095001. | 1.3 | 4 |
| 111 | Magnetic scanning gate microscopy of CoFeB lateral spin valve. AIP Advances, 2017, 7, . | 0.6 | 4 |
| 112 | Sputter-engineering a first-order magnetic phase transition in sub-15-nm-thick single-crystal FeRh films. Physical Review Materials, 2020, 4, . | 0.9 | 4 |
| 113 | Stray field and Lorentz image calculation of a longitudinal recording medium. IEEE Transactions on Magnetics, 1993, 29, 3718-3720. | 1.2 | 3 |
| 114 | Magnetic stray fields of Co/Cr microstrips measured by Lorentz microscopy. Journal of Applied Physics, 1994, 75, 3002-3007. | 1.1 | 3 |
| 115 | Lorentz microscopy studies of domain wall trap structures. , 2005, , . | | 3 |
| 116 | Transmission electron microscopy characterisation of permalloy elements fabricated by focussed ion beam lithography. Journal of Physics: Conference Series, 2006, 26, 187-190. | 0.3 | 3 |
| 117 | Investigation of the origin of the decrease in exchange biasing in Ga ⁺ ion irradiated CoFe ²⁺ /IrMn films. Journal of Applied Physics, 2006, 100, 073901. | 1.1 | 3 |
| 118 | The effect of roughness on the micromagnetic properties of high moment multilayer films. Journal Physics D: Applied Physics, 2007, 40, 3991-3997. | 1.3 | 3 |
| 119 | Academic performance and student engagement in level 1 physics undergraduates. European Journal of Physics, 2009, 30, 1153-1161. | 0.3 | 3 |
| 120 | Developing Rapid and Advanced Visualisation of Magnetic Structures Using 2-D Pixelated STEM Detectors. Microscopy and Microanalysis, 2016, 22, 530-531. | 0.2 | 3 |
| 121 | Quantitative Differential Phase Contrast Imaging of the Magnetostructural Transition and Current-driven Motion of Domain Walls in FeRh Thin Films. Microscopy and Microanalysis, 2018, 24, 936-937. | 0.2 | 3 |
| 122 | Magnetization of Co elements sensed by semiconductor transport magnetometry and transmission electron microscopy. Journal of Applied Physics, 2003, 93, 7906-7908. | 1.1 | 2 |
| 123 | Magnetization processes in single-layer and laminated CoFe films patterned into multiscale elements with write-head-like geometries. Journal of Applied Physics, 2008, 104, 013925. | 1.1 | 2 |
| 124 | Compressed Sensing Electron tomography using adaptive dictionaries: a simulation study. Journal of Physics: Conference Series, 2014, 522, 012021. | 0.3 | 2 |
| 125 | Lorentz TEM Imaging of Stripe Structures Embedded in a Soft Magnetic Matrix. Physical Review Applied, 2015, 4, . | 1.5 | 2 |
| 126 | Effect of annealing on the magnetic states of FEBID-grown cobalt nanopatterns examined by off-axis electron holography. Journal of Microscopy, 2020, 279, 217-221. | 0.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | EFFECT OF APPLICATION OF FIELDS ON THE DOMAIN STRUCTURE IN SMALL REGULARLY SHAPED MAGNETIC PARTICLES. Journal De Physique Colloque, 1988, 49, C8-1817-C8-1818. | 0.2 | 2 |
| 128 | The effect of oblique incidence evaporation on the magnetic properties of thin film elements. Journal Physics D: Applied Physics, 1999, 32, 2714-2720. | 1.3 | 1 |
| 129 | In-situ Lorentz microscopy of magnetic nanostructures. , 0, , . | | 1 |
| 130 | Unexpected exchange bias behaviour in CoFeB ultrathin films for MTJ sensors investigated by Lorentz microscopy. Journal Physics D: Applied Physics, 2013, 46, 305001. | 1.3 | 1 |
| 131 | Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, I: Theory and Analysis. Microscopy and Microanalysis, 2021, 27, 1113-1122. | 0.2 | 1 |
| 132 | Characterisation of magnetisation ripple using Lorentz microscopy: Effect of ultra-thin Ni79Fe21 seed layers on magnetic properties of Ni45Fe55. Journal of Magnetism and Magnetic Materials, 2021, 535, 168094. | 1.0 | 1 |
| 133 | Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , . | | 1 |
| 134 | Instrumentation, techniques, and applications of electron microscopy in the solid state physics group at Glasgow university. Microscopy Research and Technique, 1993, 24, 316-332. | 1.2 | 0 |
| 135 | Characterisation Of MFM Tip Fields By Electron Tomography. , 0, , . | | 0 |
| 136 | Magnetisation Reversal in Cobalt and Permalloy Nano-Elements. , 1997, , 309-313. | | 0 |
| 137 | Switching Behaviour of Sub-Micron Magnetic Elements Studied By Tem. Microscopy and Microanalysis, 1999, 5, 16-17. | 0.2 | 0 |
| 138 | Magnetic imaging of nanostructured magnetic elements. , 0, , . | | 0 |
| 139 | Effect of edge structure on switching of patterned elements. , 0, , . | | 0 |
| 140 | Lorentz Microscopy in the Study of Magnetic Thin Films. Microscopy and Microanalysis, 2004, 10, 42-43. | 0.2 | 0 |
| 141 | Nanopatterning magnetic thin films by Ga ion irradiation. , 2005, , . | | 0 |
| 142 | Transition from vortex to transverse walls in NiFe nano-structures. , 2006, , . | | 0 |
| 143 | Controlled Switching in Magnetic Thin Film Elements. , 2006, , . | | 0 |
| 144 | High Resolution Quantitative Lorentz Microscopy. Journal of Physics: Conference Series, 2015, 644, 012026. | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Focused Electron-Beam Induced Deposition, In Situ TEM And Off-Axis Electron Holography Investigation of Bi-Magnetic Core-Shell Nanostructures. <i>Microscopy and Microanalysis</i> , 2019, 25, 56-57. | 0.2 | 0 |
| 146 | Local Phase Curvature Measurement in STEM With a Pixelated Detector. <i>Microscopy and Microanalysis</i> , 2019, 25, 82-83. | 0.2 | 0 |
| 147 | Differential Phase Contrast Imaging of the Magnetostructural Transition and Phase Boundary Motion in Uniform and Gradient-doped FeRh-based Thin Films. <i>Microscopy and Microanalysis</i> , 2019, 25, 1836-1837. | 0.2 | 0 |
| 148 | Spin-Hall Nano-Oscillator Simulations. , 2019, , . | | 0 |
| 149 | The depth sensitivity of Type II magnetic contrast. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1991, 49, 766-767. | 0.0 | 0 |
| 150 | Magnetisation Processes in Magnetic Nanostructures. , 1999, , 145-158. | | 0 |