# Stephen McVitie

List of Publications by Year
in descending order



| 150 | 3,850 | 109321 | 144013 |
|---|---|---|---|
| papers | citations | 35 h-index | 57 g-index |

| 151 | 151 | 151 | 3336 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Complex free-space magnetic field textures induced by three-dimensional magnetic nanostructures. Nature Nanotechnology, 2022, 17, 136-142. | 31.5 | 39 |
| 2 | Phase domain boundary motion and memristance in gradient-doped FeRh nanopillars induced by spin injection. Applied Physics Letters, 2021, 118, . | 3.3 | 6 |
| 3 | Strong magnonâ€“photon coupling with chip-integrated YIG in the zero-temperature limit. Applied Physics Letters, 2021, 119, . | 3.3 | 20 |
| 4 | Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, II: K<sub>2</sub>CuF<sub>4</sub> Phase Transition. Microscopy and Microanalysis, 2021, 27, 1123-1132. | 0.4 | 5 |
| 5 | Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, I: Theory and Analysis. Microscopy and Microanalysis, 2021, 27, 1113-1122. | 0.4 | 1 |
| 6 | 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. | 2.3 | 1 |
| 7 | Formations of Narrow Stripes and Vortexâ€“Antivortex Pairs in a Quasi-Two-Dimensional Ferromagnet K<sub>2</sub>CuF<sub>4</sub>. Journal of the Physical Society of Japan, 2021, 90, 014702. | 1.6 | 10 |
| 8 | Effect of annealing on the magnetic states of FEBIDâ€grown cobalt nanopatterns examined by offâ€axis electron holography. Journal of Microscopy, 2020, 279, 217-221. | 1.8 | 2 |
| 9 | Fast Pixelated Detectors in Scanning Transmission Electron Microscopy. Part I: Data Acquisition, Live Processing, and Storage. Microscopy and Microanalysis, 2020, 26, 653-666. | 0.4 | 39 |
| 10 | Asymmetric magnetic relaxation behavior of domains and domain walls observed through the FeRh first-order metamagnetic phase transition. Physical Review B, 2020, 102, . | 3.2 | 8 |
| 11 | Tuning magnetic order with geometry: Thermalization and defects in two-dimensional artificial spin ices. Physical Review B, 2020, 101, . | 3.2 | 16 |
| 12 | Controlled Individual Skyrmion Nucleation at Artificial Defects Formed by Ion Irradiation. Small, 2020, 16, e1907450. | 10.0 | 27 |
| 13 | Artificial Double-Helix for Geometrical Control of Magnetic Chirality. ACS Nano, 2020, 14, 8084-8092. | 14.6 | 58 |
| 14 | Revealing 3D magnetization of thin films with soft X-ray tomography: magnetic singularities and topological charges. Nature Communications, 2020, 11, 6382. | 12.8 | 29 |
| 15 | Tensile deformations of the magnetic chiral soliton lattice probed by Lorentz transmission electron microscopy. Physical Review B, 2020, 101, . | 3.2 | 11 |
| 16 | Direct visualization of the magnetostructural phase transition in nanoscale FeRh thin films using differential phase contrast imaging. Physical Review Materials, 2020, 4, . | 2.4 | 10 |
| 17 | Sputter-engineering a first-order magnetic phase transition in sub-15-nm-thick single-crystal FeRh films. Physical Review Materials, 2020, 4, . | 2.4 | 4 |
| 18 | Focused Electron-Beam Induced Deposition, In Situ TEM And Off-Axis Electron Holography Investigation of Bi-Magnetic Core-Shell Nanostructures. Microscopy and Microanalysis, 2019, 25, 56-57. | 0.4 | 0 |

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| 19 | Heisenberg pseudo-exchange and emergent anisotropies in field-driven pinwheel artificial spin ice. Physical Review B, 2019, 100, . | 3.2 | 11 |
| 20 | Local Phase Curvature Measurement in STEM With a Pixelated Detector. Microscopy and Microanalysis, 2019, 25, 82-83. | 0.4 | 0 |
| 21 | Differential Phase Contrast Imaging of the Magnetostructural Transition and Phase Boundary Motion in Uniform and Gradient-doped FeRh-based Thin Films. Microscopy and Microanalysis, 2019, 25, 1836-1837. | 0.4 | 0 |
| 22 | Order and disorder in the magnetization of the chiral crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CrNb</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2019, 99, . | 3.2 | 27 |
| 23 | Spin-Hall Nano-Oscillator Simulations. , 2019, , . | | 0 |
| 24 | Quantitative imaging of hybrid chiral spin textures in magnetic multilayer systems by Lorentz microscopy. Physical Review B, 2019, 100, . | 3.2 | 21 |
| 25 | Anomalous Temperature Behavior of the Chiral Spin Helix in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CrNb</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Thin Lamellae. Physical Review Letters, 2019, 122, 017204. | 7.8 | 29 |
| 26 | Superferromagnetism and Domain-Wall Topologies in Artificial â€œPinwheelâ€•Spin Ice. ACS Nano, 2019, 13, 2213-2222. | 14.6 | 25 |
| 27 | A transmission electron microscope study of NÃ©el skyrmion magnetic textures in multilayer thin film systems with large interfacial chiral interaction. Scientific Reports, 2018, 8, 5703. | 3.3 | 38 |
| 28 | 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. | 0.4 | 3 |
| 29 | Antiferromagnetic-ferromagnetic phase domain development in nanopatterned FeRh islands. Physical Review Materials, 2018, 2, . | 2.4 | 13 |
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| 31 | Thickness dependence of spin wave excitations in an artificial square spin ice-like geometry. Journal of Applied Physics, 2017, 121, . | 2.5 | 19 |
| 32 | Brillouin light scattering study of magnetic-element normal modes in a square artificial spin ice geometry. Journal Physics D: Applied Physics, 2017, 50, 015003. | 2.8 | 25 |
| 33 | Preparation of high-quality planar FeRh thin films forin situTEM investigations. Journal of Physics: Conference Series, 2017, 903, 012022. | 0.4 | 11 |
| 34 | Pinning and hysteresis in the field dependent diameter evolution of skyrmions in Pt/Co/Ir superlattice stacks. Scientific Reports, 2017, 7, 15125. | 3.3 | 61 |
| 35 | Synthetic ferrimagnet nanowires with very low critical current density for coupled domain wall motion. Scientific Reports, 2017, 7, 1640. | 3.3 | 28 |
| 36 | Quantitative TEM imaging of the magnetostructural and phase transitions in FeRh thin film systems. Scientific Reports, 2017, 7, 17835. | 3.3 | 23 |

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| 37 | Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , . | | 1 |
| 38 | Developing Rapid and Advanced Visualisation of Magnetic Structures Using 2-D Pixelated STEM Detectors. Microscopy and Microanalysis, 2016, 22, 530-531. | 0.4 | 3 |
| 39 | Electron tomography image reconstruction using data-driven adaptive compressed sensing. Scanning, 2016, 38, 251-276. | 1.5 | 8 |
| 40 | Pixelated detectors and improved efficiency for magnetic imaging in STEM differential phase contrast. Ultramicroscopy, 2016, 165, 42-50. | 1.9 | 109 |
| 41 | Chiral Surface Twists and Skyrmion Stability in Nanolayers of Cubic Helimagnets. Physical Review Letters, 2016, 117, 087202. | 7.8 | 109 |
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| 44 | Lorentz TEM Imaging of Stripe Structures Embedded in a Soft Magnetic Matrix. Physical Review Applied, 2015, 4, . | 3.8 | 2 |
| 45 | High Resolution Quantitative Lorentz Microscopy. Journal of Physics: Conference Series, 2015, 644, 012026. | 0.4 | 0 |
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| 47 | Magnetic soliton confinement and discretization effects arising from macroscopic coherence in a chiral spin soliton lattice. Physical Review B, 2015, 92, . | 3.2 | 102 |
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| 51 | Engineering Magnetic Domain-Wall Structure in Permalloy Nanowires. Physical Review Applied, 2015, 3, . | 3.8 | 13 |
| 52 | Compressed Sensing Electron tomography using adaptive dictionaries: a simulation study. Journal of Physics: Conference Series, 2014, 522, 012021. | 0.4 | 2 |
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| 54 | Measuring and tailoring the Dzyaloshinskii-Moriya interaction in perpendicularly magnetized thin films. Physical Review B, 2014, 90, . | 3.2 | 351 |

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| 61 | Visualization of vortex core polarity in NiFe nanodots by tilted Fresnel images. Ultramicroscopy, 2011, 111, 1276-1285. | 1.9 | 12 |
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| 64 | Nanoscale physical microstructure and micromagnetic behaviour of CoIr film with negative anisotropy. Journal Physics D: Applied Physics, 2011, 44, 095001. | 2.8 | 4 |
| 65 | Medipix2/Timepix detector for time resolved Transmission Electron Microscopy. Journal of Instrumentation, 2011, 6, C12052-C12052. | 1.2 | 17 |
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| 150 | In-situ Lorentz microscopy of magnetic nanostructures. , 0, , . | | 1 |