

J M De Teresa

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213
papers

9,236
citations

47
h-index

89
g-index

224
ext. papers

9,987
ext. citations

4.5
avg, IF

5.7
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 213 | Evidence for magnetic polarons in the magnetoresistive perovskites. <i>Nature</i> , 1997 , 386, 256-259 | 50.4 | 878 |
| 212 | Role of metal-oxide interface in determining the spin polarization of magnetic tunnel junctions. <i>Science</i> , 1999 , 286, 507-9 | 33.3 | 523 |
| 211 | Spin-to-charge conversion using Rashba coupling at the interface between non-magnetic materials. <i>Nature Communications</i> , 2013 , 4, 2944 | 17.4 | 508 |
| 210 | Inverse Tunnel Magnetoresistance in Co/SrTiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ : New Ideas on Spin-Polarized Tunneling. <i>Physical Review Letters</i> , 1999 , 82, 4288-4291 | 7.4 | 320 |
| 209 | Influence of oxygen content on the structural, magnetotransport, and magnetic properties of LaMnO ₃ + \square . <i>Physical Review B</i> , 1997 , 56, 8902-8911 | 3.3 | 300 |
| 208 | Double perovskites with ferromagnetism above room temperature. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 023201 | 1.8 | 299 |
| 207 | Spontaneous behavior and magnetic field and pressure effects on La _{2/3} Ca _{1/3} MnO ₃ perovskite. <i>Physical Review B</i> , 1996 , 54, 1187-1193 | 3.3 | 251 |
| 206 | Spin-glass insulator state in (Tb-La) _{2/3} Ca _{1/3} MnO ₃ perovskite. <i>Physical Review Letters</i> , 1996 , 76, 3392-3395 | 3.4 | 243 |
| 205 | Structural, magnetic, and transport properties of the giant magnetoresistive perovskites La _{2/3} Ca _{1/3} Mn _{1-x} Al _x O ₃ . <i>Physical Review B</i> , 1997 , 55, 8905-8910 | 3.3 | 219 |
| 204 | Large magnetoresistance in Fe/MgO/FeCo(001) epitaxial tunnel junctions on GaAs(001). <i>Applied Physics Letters</i> , 2001 , 79, 1655-1657 | 3.4 | 202 |
| 203 | Structural and magnetic properties of double perovskites AAnFeMoO ₆ (AAn= Ba ₂ , BaSr, Sr ₂ and Ca ₂). <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 8295-8308 | 1.8 | 173 |
| 202 | Structural and magnetic study of Tb _{1-x} CaxMnO ₃ perovskites. <i>Physical Review B</i> , 2000 , 62, 5609-5618 | 3.3 | 154 |
| 201 | Magnetotransport properties of high-quality cobalt nanowires grown by focused-electron-beam-induced deposition. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055005 | 3 | 130 |
| 200 | Three dimensional magnetic nanowires grown by focused electron-beam induced deposition. <i>Scientific Reports</i> , 2013 , 3, 1492 | 4.9 | 125 |
| 199 | Ultrasmall functional ferromagnetic nanostructures grown by focused electron-beam-induced deposition. <i>ACS Nano</i> , 2011 , 5, 7781-7 | 16.7 | 99 |
| 198 | Strong influence of the Mn ³⁺ content on the binding energy of the lattice polarons in manganese perovskites. <i>Physical Review B</i> , 1998 , 58, R5928-R5931 | 3.3 | 93 |
| 197 | A systematic study of structural, magnetic and electrical properties of perovskites. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 7427-7442 | 1.8 | 93 |

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| 196 | Review of magnetic nanostructures grown by focused electron beam induced deposition (FEBID). <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 243003 | 3 | 93 |
| 195 | Direct observation of melting in a two-dimensional superconducting vortex lattice. <i>Nature Physics</i> , 2009 , 5, 651-655 | 16.2 | 92 |
| 194 | Large low-field magnetoresistance and TC in polycrystalline $(\text{Ba}_{0.8}\text{Sr}_{0.2})_{2-x}\text{La}_x\text{FeMoO}_6$ double perovskites. <i>Applied Physics Letters</i> , 2002 , 80, 4573-4575 | 3.4 | 90 |
| 193 | Impact of cation size on magnetic properties of $(\text{AA}')_2\text{FeReO}_6$ double perovskites. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 78 |
| 192 | Magnetic versus orbital polarons in colossal magnetoresistance manganites. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 78 |
| 191 | Magnetic field-induced dissipation-free state in superconducting nanostructures. <i>Nature Communications</i> , 2013 , 4, 1437 | 17.4 | 75 |
| 190 | Oxygen isotope effects in $(\text{La}_{0.5}\text{Nd}_{0.5})_{2/3}\text{Ca}_{1/3}\text{MnO}_3$: Relevance of the electron-phonon interaction to the phase segregation. <i>Physical Review B</i> , 1998 , 57, 7446-7449 | 3.3 | 74 |
| 189 | Charge localization, magnetic order, structural behavior, and spin dynamics of $(\text{La}_{1-x}\text{Bi}_x)_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ manganese perovskites probed by neutron diffraction and muon spin relaxation. <i>Physical Review B</i> , 1997 , 56, 3317-3324 | 3.3 | 72 |
| 188 | Origin of the giant magnetic moment in epitaxial Fe_3O_4 thin films. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 70 |
| 187 | Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 69 |
| 186 | Magnetoresistance and spin electronics. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 68-76 | 2.8 | 68 |
| 185 | Origin of the Difference in the Resistivity of As-Grown Focused-Ion- and Focused-Electron-Beam-Induced Pt Nanodeposits. <i>Journal of Nanomaterials</i> , 2009 , 2009, 1-11 | 3.2 | 66 |
| 184 | Intergrain magnetoresistance up to 50 T in the half-metallic $(\text{Ba}_{0.8}\text{Sr}_{0.2})_2\text{FeMoO}_6$ double perovskite: Spin-glass behavior of the grain boundary. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 66 |
| 183 | High-purity cobalt nanostructures grown by focused-electron-beam-induced deposition at low current. <i>Microelectronic Engineering</i> , 2010 , 87, 1550-1553 | 2.5 | 65 |
| 182 | Focused Electron and Ion Beam Induced Deposition on Flexible and Transparent Polycarbonate Substrates. <i>ACS Nano</i> , 2015 , 9, 6139-46 | 16.7 | 62 |
| 181 | Domain wall conduit behavior in cobalt nanowires grown by focused electron beam induced deposition. <i>Applied Physics Letters</i> , 2009 , 94, 192509 | 3.4 | 62 |
| 180 | GMR sensors and magnetic nanoparticles for immuno-chromatographic assays. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3495-3498 | 2.8 | 60 |
| 179 | Lattice effects, stability under a high magnetic field, and magnetotransport properties of the charge-ordered mixed-valence $\text{La}_{0.35}\text{Ca}_{0.65}\text{MnO}_3$ perovskite. <i>Physical Review B</i> , 1997 , 56, 8252-8256 | 3.3 | 60 |

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| 178 | Enhancement of long-range correlations in a 2D vortex lattice by an incommensurate 1D disorder potential. <i>Nature Physics</i> , 2014 , 10, 851-856 | 16.2 | 59 |
| 177 | Anomalous Hall effect in Fe (001) epitaxial thin films over a wide range in conductivity. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 58 |
| 176 | Nanoscale superconducting properties of amorphous W-based deposits grown with a focused-ion-beam. <i>New Journal of Physics</i> , 2008 , 10, 093005 | 2.9 | 58 |
| 175 | The influence of single-walled carbon nanotube functionalization on the electronic properties of their polyaniline composites. <i>Carbon</i> , 2008 , 46, 1909-1917 | 10.4 | 58 |
| 174 | Mesoscopic magnetic states in metallic alloys with strong electronic correlations: a percolative scenario for CeNi _{1-x} Cux. <i>Physical Review Letters</i> , 2007 , 98, 166406 | 7.4 | 56 |
| 173 | 3D Magnetic Induction Maps of Nanoscale Materials Revealed by Electron Holographic Tomography. <i>Chemistry of Materials</i> , 2015 , 27, 6771-6778 | 9.6 | 53 |
| 172 | Universal scaling of the anomalous Hall effect in Fe ₃ O ₄ epitaxial thin films. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 53 |
| 171 | Structural, magnetic and transport properties of Sr ₂ Fe _{1-x} Cr _x MoO ₆ . <i>Solid State Sciences</i> , 2002 , 4, 651-660 | 9.4 | 52 |
| 170 | Distinguishing magnetic and electrostatic interactions by a Kelvin probe force microscopy-magnetic force microscopy combination. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 552-60 | 3 | 51 |
| 169 | Magnetization reversal in individual cobalt micro- and nanowires grown by focused-electron-beam-induced-deposition. <i>Nanotechnology</i> , 2009 , 20, 475704 | 3.4 | 51 |
| 168 | Peculiar ferromagnetic insulator state in the low-hole-doped manganites. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 51 |
| 167 | Control of the spin to charge conversion using the inverse Rashba-Edelstein effect. <i>Applied Physics Letters</i> , 2015 , 106, 172403 | 3.4 | 49 |
| 166 | Investigation of the influence on graphene by using electron-beam and photo-lithography. <i>Solid State Communications</i> , 2011 , 151, 1574-1578 | 1.6 | 47 |
| 165 | Vertical Growth of Superconducting Crystalline Hollow Nanowires by He Focused Ion Beam Induced Deposition. <i>Nano Letters</i> , 2018 , 18, 1379-1386 | 11.5 | 46 |
| 164 | Metal-insulator transition in Pt-C nanowires grown by focused-ion-beam-induced deposition. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 46 |
| 163 | Investigation of the high Curie temperature in Sr ₂ CrReO ₆ . <i>Physical Review B</i> , 2005 , 71, | 3.3 | 43 |
| 162 | Quantitative biomolecular sensing station based on magnetoresistive patterned arrays. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 206-212 | 11.8 | 42 |
| 161 | Tuning shape, composition and magnetization of 3D cobalt nanowires grown by focused electron beam induced deposition (FEBID). <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 18LT01 | 3 | 41 |

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| 160 | Fe:O:C grown by focused-electron-beam-induced deposition: magnetic and electric properties. <i>Nanotechnology</i> , 2011 , 22, 025302 | 3.4 | 41 |
| 159 | Experimental study of the structural and magnetic properties of Fe ₂ O ₃ nanoparticles. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 41 |
| 158 | Hysteresis loops of individual Co nanostripes measured by magnetic force microscopy. <i>Nanoscale Research Letters</i> , 2011 , 6, 407 | 5 | 39 |
| 157 | Possible quantum critical point in La(2/3)Ca(1/3)Mn(1-x)Ga x O ₃ . <i>Physical Review Letters</i> , 2005 , 94, 207205 | 4.4 | 39 |
| 156 | Pressure and magnetic field effects on the volume anomaly associated with first-order valence change in YbInCu ₄ . <i>Solid State Communications</i> , 1996 , 99, 911-915 | 1.6 | 39 |
| 155 | Antiferromagnetism at T>500K in the layered hexagonal ruthenate SrRu ₂ O ₆ . <i>Physical Review B</i> , 2015 , 92, | 3.3 | 38 |
| 154 | Evidence of unquenched Re orbital magnetic moment in AA ₂ FeReO ₆ double perovskites. <i>Applied Physics Letters</i> , 2006 , 89, 062509 | 3.4 | 38 |
| 153 | Colossal magnetoresistance in Gd _{1/2} Sr _{1/2} MnO ₃ . <i>Journal of Applied Physics</i> , 1998 , 83, 7664-7667 | 2.5 | 38 |
| 152 | Nanoscale chemical and structural study of Co-based FEBID structures by STEM-EELS and HRTEM. <i>Nanoscale Research Letters</i> , 2011 , 6, 592 | 5 | 37 |
| 151 | Anisotropic magnetotransport in SrTiO ₃ surface electron gases generated by Ar ⁺ irradiation. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 36 |
| 150 | Role of the surface states in the magnetotransport properties of ultrathin bismuth films. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 34 |
| 149 | Charge ordering at room temperature in. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 10321-10331 | 1.8 | 33 |
| 148 | Grain-boundary magnetoresistance up to 42 T in cold-pressed Fe ₃ O ₄ nanopowders. <i>Journal of Applied Physics</i> , 2005 , 97, 084317 | 2.5 | 33 |
| 147 | Writing 3D Nanomagnets Using Focused Electron Beams. <i>Materials</i> , 2020 , 13, | 3.5 | 33 |
| 146 | Three-dimensional core-shell ferromagnetic nanowires grown by focused electron beam induced deposition. <i>Nanotechnology</i> , 2016 , 27, 285302 | 3.4 | 32 |
| 145 | NMR study of double perovskite Sr ₂ FeMoO ₆ . <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 701-703 | 2.8 | 32 |
| 144 | First-order valence phase transition in CeNi _{1-x} CoxSn alloys. <i>Physical Review B</i> , 1995 , 52, 12790-12797 | 3.3 | 32 |
| 143 | Review of recent results on spin polarized tunneling and magnetic switching by spin injection. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 84, 1-9 | 3.1 | 31 |

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| 142 | Preparation and properties of epitaxial $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ -films with reduced carrier density. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7099-7109 | 1.8 | 31 |
| 141 | Artificial Double-Helix for Geometrical Control of Magnetic Chirality. <i>ACS Nano</i> , 2020 , 14, 8084-8092 | 16.7 | 30 |
| 140 | Giant planar Hall effect in epitaxial Fe_3O_4 thin films and its temperature dependence. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 30 |
| 139 | Magnetization of Re-based double perovskites: Noninteger saturation magnetization disclosed. <i>Applied Physics Letters</i> , 2007 , 90, 252514 | 3.4 | 30 |
| 138 | Present and future applications of magnetic nanostructures grown by FEBID. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1645-1658 | 2.6 | 29 |
| 137 | Magnetic properties of FeMgO granular multilayers prepared by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2009 , 105, 063909 | 2.5 | 29 |
| 136 | Increase of Curie temperature in fixed ionic radius $\text{Ba}_{(1-x)}\text{Sr}_{(1-3x)}\text{La}_{(2x)}\text{FeMoO}_6$ double perovskites. <i>European Physical Journal B</i> , 2004 , 39, 35-40 | 1.2 | 29 |
| 135 | Three-Dimensional Superconducting Nanohelices Grown by He-Focused-Ion-Beam Direct Writing. <i>Nano Letters</i> , 2019 , 19, 8597-8604 | 11.5 | 28 |
| 134 | High-field magnetization measurements in $\text{Sr}_2\text{CrReO}_6$ double perovskite: Evidence for orbital contribution to the magnetization. <i>Europhysics Letters</i> , 2007 , 78, 17006 | 1.6 | 28 |
| 133 | Magnetotransport properties of Fe_3O_4 thin films for applications in spin electronics. <i>Microelectronic Engineering</i> , 2007 , 84, 1660-1664 | 2.5 | 28 |
| 132 | Hybrid TiO_2 -Graphene nanoribbon photoanodes to improve the photoconversion efficiency of dye sensitized solar cells. <i>Journal of Power Sources</i> , 2018 , 396, 566-573 | 8.9 | 28 |
| 131 | Weak-antilocalization signatures in the magnetotransport properties of individual electrodeposited Bi Nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 082110 | 3.4 | 27 |
| 130 | Colossal magnetoresistance in manganese oxide perovskites. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 846-849 | 2.8 | 27 |
| 129 | Structural and magnetic details of 3d-element doped $\text{Sr}_2\text{Fe}_{0.75}\text{Ti}_{0.25}\text{MoO}_6$. <i>Solid State Sciences</i> , 2004 , 6, 419-431 | 3.4 | 27 |
| 128 | Field effect on phase segregation in the electron-doped mixed-valence manganites near a structural instability. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 27 |
| 127 | Arrays of densely packed isolated nanowires by focused beam induced deposition plus Ar^+ milling. <i>ACS Nano</i> , 2014 , 8, 3788-95 | 16.7 | 26 |
| 126 | XAS and XMCD under high magnetic field and low temperature on the energy-dispersive beamline of the ESRF. <i>Journal of Synchrotron Radiation</i> , 2007 , 14, 409-15 | 2.4 | 26 |
| 125 | Observation of the strain induced magnetic phase segregation in manganite thin films. <i>Nano Letters</i> , 2015 , 15, 492-7 | 11.5 | 25 |

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| 124 | Study of Structural, Magnetic, and Electrical Properties of $\text{La}_{2/3}\text{Ca}_{1/3}\text{Mn}_{1-x}\text{In}_x\text{O}_3$ Perovskites. <i>Journal of Solid State Chemistry</i> , 1998 , 138, 226-231 | 3-3 | 25 |
| 123 | Crossover from charge-localized state to charge-ordered state in $\text{Pr}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$. <i>Physical Review B</i> , 1996 , 54, R12689-R12692 | 3-3 | 25 |
| 122 | Direct observation of stress accumulation and relaxation in small bundles of superconducting vortices in tungsten thin films. <i>Physical Review Letters</i> , 2011 , 106, 077001 | 7-4 | 24 |
| 121 | Correlation between the synthesis conditions and the compositional and magnetic properties of $\text{Co}_2(\text{Cr}_{1-x}\text{Fex})\text{Al}$ Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 450, 31-38 | 5-7 | 24 |
| 120 | Giant anomalous Hall effect in Fe-based microwires grown by focused-electron-beam-induced deposition. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 035001 | 3 | 23 |
| 119 | Giant magnetoresistance in bulk. <i>Solid State Communications</i> , 1995 , 96, 627-630 | 1.6 | 23 |
| 118 | Quantitative in situ magnetization reversal studies in Lorentz microscopy and electron holography. <i>Ultramicroscopy</i> , 2013 , 134, 144-54 | 3-1 | 22 |
| 117 | Tailoring the physical properties of thin nanohole arrays grown on flat anodic aluminum oxide templates. <i>Nanotechnology</i> , 2012 , 23, 425701 | 3-4 | 22 |
| 116 | Large magnetoresistance in $(\text{AA}')_2\text{FeReO}_6$ double perovskites. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1043-1049 | 2.8 | 22 |
| 115 | A ^{55}Mn nuclear magnetic resonance study of mixed-valence manganites. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 4079-4086 | 1.8 | 22 |
| 114 | NanoSQUID Magnetometry on Individual As-grown and Annealed Co Nanowires at Variable Temperature. <i>Nano Letters</i> , 2018 , 18, 7674-7682 | 11-5 | 22 |
| 113 | Mechanical magnetometry of Cobalt nanospheres deposited by focused electron beam at the tip of ultra-soft cantilevers. <i>Nanofabrication</i> , 2014 , 1, | 4 | 21 |
| 112 | Optimized cobalt nanowires for domain wall manipulation imaged by in situ Lorentz microscopy. <i>Applied Physics Letters</i> , 2013 , 102, 022418 | 3-4 | 21 |
| 111 | High-field Hall effect and magnetoresistance in Fe_3O_4 epitaxial thin films up to 30 Tesla. <i>Applied Physics Letters</i> , 2009 , 95, 262108 | 3-4 | 21 |
| 110 | Giant magnetostriction in $\text{Ca}_2\text{FeReO}_6$ double perovskite. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 843-845 | 2.8 | 21 |
| 109 | Correlation between magnetovolume and giant magnetoresistance effects in doped $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ perovskites. <i>Journal of Applied Physics</i> , 1996 , 79, 5175 | 2-5 | 21 |
| 108 | Purified and Crystalline Three-Dimensional Electron-Beam-Induced Deposits: The Successful Case of Cobalt for High-Performance Magnetic Nanowires. <i>ACS Applied Nano Materials</i> , 2018 , 1, 38-46 | 5-6 | 20 |
| 107 | The nature of graphene-metal bonding probed by Raman spectroscopy: the special case of cobalt. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 105301 | 3 | 20 |

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| 106 | Influence of the shape and surface oxidation in the magnetization reversal of thin iron nanowires grown by focused electron beam induced deposition. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1319-1331 | 3.3 | 20 |
| 105 | Electrical conductivity of oxidized-graphenic nanoplatelets obtained from bamboo: effect of the oxygen content. <i>Nanotechnology</i> , 2016 , 27, 365708 | 3.4 | 20 |
| 104 | Quantitative analysis of the weak anti-localization effect in ultrathin bismuth films. <i>Europhysics Letters</i> , 2011 , 95, 37002 | 1.6 | 19 |
| 103 | Competition between Superconductor - Ferromagnetic stray magnetic fields in YBaCuO films pierced with Co nano-rods. <i>Scientific Reports</i> , 2017 , 7, 5663 | 4.9 | 18 |
| 102 | High conductivity in hydrothermally grown AgCuO(2) single crystals verified using focused-ion-beam-deposited nanocontacts. <i>Inorganic Chemistry</i> , 2010 , 49, 10977-83 | 5.1 | 18 |
| 101 | Field-induced magnetostructural phase transition in double perovskite Ca ₂ FeReO ₆ studied via x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 18 |
| 100 | Ferromagnetic Superconductor nanocontacts grown by focused electron/ion beam techniques for current-in-plane Andreev Reflection measurements. <i>Solid State Communications</i> , 2011 , 151, 37-41 | 1.6 | 18 |
| 99 | Detailed neutron study of the crossover from long-range to short-range magnetic ordering in (Nd _{1-x} Tbx) _{0.55} Sr _{0.45} MnO ₃ manganites. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 18 |
| 98 | Customized MFM probes based on magnetic nanorods. <i>Nanoscale</i> , 2020 , 12, 10090-10097 | 7.7 | 17 |
| 97 | Tunneling magnetoresistance in Fe/MgO granular multilayers. <i>Journal of Applied Physics</i> , 2010 , 107, 033704 | 7.0 | 17 |
| 96 | Oxygen-isotope effect on the field-induced metal-insulator transition in. <i>Solid State Communications</i> , 1998 , 105, 567-570 | 1.6 | 17 |
| 95 | Ultra-fast direct growth of metallic micro- and nano-structures by focused ion beam irradiation. <i>Scientific Reports</i> , 2019 , 9, 14076 | 4.9 | 16 |
| 94 | Magnetic properties of optimized cobalt nanospheres grown by focused electron beam induced deposition (FEBID) on cantilever tips. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2106-2115 | 3 | 16 |
| 93 | Focused electron beam induced etching of titanium with XeF ₂ . <i>Nanotechnology</i> , 2011 , 22, 265304 | 3.4 | 16 |
| 92 | Temperature dependence of magnetization under high fields in Re-based double perovskites. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 506206 | 1.8 | 15 |
| 91 | Manganite-based magnetic tunnel junctions: new ideas on spin-polarised tunnelling. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 211, 160-166 | 2.8 | 15 |
| 90 | Transmission XMCD-PEEM imaging of an engineered vertical FEBID cobalt nanowire with a domain wall. <i>Nanotechnology</i> , 2018 , 29, 045704 | 3.4 | 15 |
| 89 | Enhanced magnetotransport in nanopatterned manganite nanowires. <i>Nano Letters</i> , 2014 , 14, 423-8 | 11.5 | 14 |

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|----|---|------|----|
| 88 | Magnetoresistance and magnetostriction of Co ₂ Cr _{0.6} Fe _{0.4} Al Heusler alloy. <i>Solid State Communications</i> , 2007 , 142, 363-367 | 1.6 | 14 |
| 87 | Magnetostriction effects. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 788-796 | 2.8 | 14 |
| 86 | All-Carbon Electrode Molecular Electronic Devices Based on Langmuir-Blodgett Monolayers. <i>Small</i> , 2017 , 13, 1603207 | 11 | 13 |
| 85 | In situ real-time annealing of ultrathin vertical Fe nanowires grown by focused electron beam induced deposition. <i>Acta Materialia</i> , 2019 , 174, 379-386 | 8.4 | 13 |
| 84 | Enhanced exchange and reduced magnetization of Gd in an Fe/Gd/Fe trilayer. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 13 |
| 83 | Structural and magnetic properties of amorphous iron oxide. <i>Physica B: Condensed Matter</i> , 2010 , 405, 1202-1206 | 2.8 | 13 |
| 82 | Chemical and structural analysis of sub-20 nm graphene patterns generated by scanning probe lithography. <i>Carbon</i> , 2018 , 129, 281-285 | 10.4 | 12 |
| 81 | Improvement of domain wall conduit properties in cobalt nanowires by global gallium irradiation. <i>Nanotechnology</i> , 2013 , 24, 345703 | 3.4 | 12 |
| 80 | Modification of domain-wall propagation in Co nanowires via Ga ⁺ irradiation. <i>European Physical Journal B</i> , 2013 , 86, 1 | 1.2 | 12 |
| 79 | Functionalized Akiyama tips for magnetic force microscopy measurements. <i>Measurement Science and Technology</i> , 2017 , 28, 125401 | 2 | 12 |
| 78 | Colossal magnetoresistance in Ca _x Sr _{2-x} FeReO ₆ double perovskites due to field-induced phase coexistence. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 12 |
| 77 | Effects of the lanthanide addition to the Sr ₂ CrReO ₆ double perovskite. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 12 |
| 76 | Magnetoelastic coupling in Sr ₂ (Fe _{1-x} Cr _x)ReO ₆ double perovskites. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 436226 | 1.8 | 12 |
| 75 | Mössbauer spectroscopy in Sr ₂ FeMoO ₆ double perovskite. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1089-1091 | 2.8 | 12 |
| 74 | Local Magnetic and Electronic Properties of the A ₂ FeMO ₆ (A = Ba, Sr, Ca, MN= Mo, Re) Double Perovskites. <i>Acta Physica Polonica A</i> , 2007 , 111, 797-820 | 0.6 | 12 |
| 73 | Mass Sensing for the Advanced Fabrication of Nanomechanical Resonators. <i>Nano Letters</i> , 2019 , 19, 6987-6992 | 10.5 | 11 |
| 72 | Half-hedgehog spin textures in sub-100 nm soft magnetic nanodots. <i>Nanoscale</i> , 2020 , 12, 18646-18653 | 7.7 | 11 |
| 71 | Determination of the percolation threshold in Fe/MgO magnetic granular multilayers. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 056003 | 1.8 | 11 |

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