

Cesar Magen

List of Publications by Year in descending order

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217
papers

8,100
citations

61857

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81
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all docs

225
docs citations

225
times ranked

11128
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Indium segregation in Gd ₅ (Si,Ge) ₄ magnetocaloric materials. Journal of Alloys and Compounds, 2022, 893, 162245. | 2.8 | 3 |
| 2 | Vanadium trapped by oblique nano-sheets to preserve the anisotropy in Co/V thin films at high temperature. Journal of Alloys and Compounds, 2022, 911, 164950. | 2.8 | 2 |
| 3 | Quantification of Stacking Faults in $A_{1-x}Ni_x$ ($A = \text{Rare Earth or Mg}, x = 3.5$) Thin Films. Journal of Applied Physics, 2021, 124, 174301. | 1.1 | 0.784314 |
| 4 | Focused-Electron-Beam Engineering of 3D Magnetic Nanowires. Nanomaterials, 2021, 11, 402. | 1.9 | 14 |
| 5 | Relaxation Mechanisms and Strain-Controlled Oxygen Vacancies in Epitaxial SrMnO ₃ Films. ACS Omega, 2021, 6, 13144-13152. | 1.6 | 5 |
| 6 | Highly-efficient growth of cobalt nanostructures using focused ion beam induced deposition under cryogenic conditions: application to electrical contacts on graphene, magnetism and hard masking. Nanoscale Advances, 2021, 3, 5656-5662. | 2.2 | 5 |
| 7 | Crystal engineering and ferroelectricity at the nanoscale in epitaxial 1D manganese oxide on silicon. Nanoscale, 2021, 13, 9615-9625. | 2.8 | 2 |
| 8 | Magnetic Functionalization of Scanning Probes by Focused Electron Beam Induced Deposition Technology. Magnetochemistry, 2021, 7, 140. | 1.0 | 5 |
| 9 | Pressure dependence of the Griffiths-like phase in 5:4 intermetallics. Physical Review B, 2020, 102, . | 1.1 | 1 |
| 10 | Topotactic transformation in SrFeO ₃ triggered by low-dose Ga focused ion irradiation. Applied Physics Letters, 2020, 116, . | 1.5 | 8 |
| 11 | Tunable resistivity exponents in the metallic phase of epitaxial nickelates. Nature Communications, 2020, 11, 2949. | 5.8 | 29 |
| 12 | Half-hedgehog spin textures in sub-100 nm soft magnetic nanodots. Nanoscale, 2020, 12, 18646-18653. | 2.8 | 15 |
| 13 | Artificial Double-Helix for Geometrical Control of Magnetic Chirality. ACS Nano, 2020, 14, 8084-8092. | 7.3 | 58 |
| 14 | Observation of unexpected uniaxial magnetic anisotropy in La _{2/3} Sr _{1/3} MnO ₃ films by a BaTiO ₃ overlayer in an artificial multiferroic bilayer. Beilstein Journal of Nanotechnology, 2020, 11, 651-661. | 1.5 | 0 |
| 15 | Customized MFM probes based on magnetic nanorods. Nanoscale, 2020, 12, 10090-10097. | 2.8 | 25 |
| 16 | Nanowire Magnetic Force Sensors Fabricated by Focused-Electron-Beam-Induced Deposition. Physical Review Applied, 2020, 13, . | 1.5 | 18 |
| 17 | Reduction of thermal conductivity in ferroelectric $SrTiO_3$ thin films. Physical Review Materials, 2020, 4, . | 1.1 | 0.784314 |
| 18 | Diameter modulation of 3D nanostructures in focused electron beam induced deposition using local electric fields and beam defocus. Nanotechnology, 2019, 30, 505302. | 1.3 | 12 |

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|----|---|-----|-----------|
| 19 | Room-Temperature AFM Electric-Field-Induced Topotactic Transformation between Perovskite and Brownmillerite SrFeO _x with Sub-Micrometer Spatial Resolution. Advanced Functional Materials, 2019, 29, 1901984. | 7.8 | 15 |
| 20 | Mass Sensing for the Advanced Fabrication of Nanomechanical Resonators. Nano Letters, 2019, 19, 6987-6992. | 4.5 | 35 |
| 21 | In situ real-time annealing of ultrathin vertical Fe nanowires grown by focused electron beam induced deposition. Acta Materialia, 2019, 174, 379-386. | 3.8 | 17 |
| 22 | Engineering the magnetic order in epitaxially strained Sr _{1-x} BaxMnO ₃ perovskite thin films. APL Materials, 2019, 7, . | 2.2 | 10 |
| 23 | Engineering Vacancies in Bi ₂ S ₃ yielding Sub-Bandgap Photoresponse and Highly Sensitive Short-Wave Infrared Photodetectors. Advanced Optical Materials, 2019, 7, 1900258. | 3.6 | 37 |
| 24 | Apparent auxetic to non-auxetic crossover driven by Co ²⁺ redistribution in CoFe ₂ O ₄ thin films. APL Materials, 2019, 7, . | 2.2 | 11 |
| 25 | Cluster-glass dynamics of the Griffiths phase in $Tb_{1-x}Mn_x$ Physical Review B, 2019, 99, . | | |
| 26 | High Volume-Per-Dose and Low Resistivity of Cobalt Nanowires Grown by Ga ⁺ Focused Ion Beam Induced Deposition. Nanomaterials, 2019, 9, 1715. | 1.9 | 13 |
| 27 | Probing the morphology of epitaxial Fe/MgO discontinuous multilayers by magnetometric technique. Journal of Magnetism and Magnetic Materials, 2019, 474, 369-373. | 1.0 | 4 |
| 28 | Purified and Crystalline Three-Dimensional Electron-Beam-Induced Deposits: The Successful Case of Cobalt for High-Performance Magnetic Nanowires. ACS Applied Nano Materials, 2018, 1, 38-46. | 2.4 | 29 |
| 29 | NanoSQUID Magnetometry on Individual As-grown and Annealed Co Nanowires at Variable Temperature. Nano Letters, 2018, 18, 7674-7682. | 4.5 | 29 |
| 30 | Magnetic Shape Memory Turns to Nano: Microstructure Controlled Actuation of Free-Standing Nanodisks. Small, 2018, 14, e1803027. | 5.2 | 19 |
| 31 | Epitaxial La _{0.7} Sr _{0.3} MnO ₃ thin films on silicon with excellent magnetic and electric properties by combining physical and chemical methods. Science and Technology of Advanced Materials, 2018, 19, 702-710. | 2.8 | 16 |
| 32 | Direct and converse piezoelectric responses at the nanoscale from epitaxial BiFeO ₃ thin films grown by polymer assisted deposition. Nanoscale, 2018, 10, 20155-20161. | 2.8 | 32 |
| 33 | M-SrFe ₁₂ O ₁₉ and ferrihydrite-like ultrathin nanoplatelets as building blocks for permanent magnets: HAADF-STEM study and magnetic properties. Journal of Solid State Chemistry, 2018, 264, 124-133. | 1.4 | 13 |
| 34 | Transmission XMCD-PEEM imaging of an engineered vertical FEBID cobalt nanowire with a domain wall. Nanotechnology, 2018, 29, 045704. | 1.3 | 16 |
| 35 | Growth and structural characterization of strained epitaxial $Hf_{1-x}Zr_x$ $x > 0.5$ $Zr_{1-x}Hf_x$ $x > 0.5$ Physical Review B, 2018, 98, 074405. | 0.9 | 9 |
| 36 | Controlling the Electrical and Magnetoelectric Properties of Epitaxially Strained Sr _{1-x} BaxMnO ₃ Thin Films. Advanced Materials Interfaces, 2017, 4, 1601040. | 1.9 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Insights on the origin of the TbGe magnetocaloric effect. <i>Physica B: Condensed Matter</i> , 2017, 513, 72-76. | 1.3 | 0 |
| 38 | Magnetic anisotropy of epitaxial Co ₂ Fe-Ge Heusler alloy films on MgO (100) substrates. <i>AIP Advances</i> , 2017, 7, 055831. | 0.6 | 6 |
| 39 | Simulation of STEM-HAADF Image Contrast of Ruddlesden-Popper Faulted LaNiO ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9300-9304. | 1.5 | 14 |
| 40 | Hybrid YBa ₂ Cu ₃ O ₇ Superconducting Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. <i>Advanced Electronic Materials</i> , 2017, 3, 1700037. | 2.6 | 13 |
| 41 | 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. | 1.3 | 43 |
| 42 | Evidence of a minority monoclinic LaNiO _{2.5} phase in lanthanum nickelate thin films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9137-9142. | 1.3 | 10 |
| 43 | All-Carbon Electrode Molecular Electronic Devices Based on Langmuir-Blodgett Monolayers. <i>Small</i> , 2017, 13, 1603207. | 5.2 | 16 |
| 44 | Suspended tungsten-based nanowires with enhanced mechanical properties grown by focused ion beam induced deposition. <i>Nanotechnology</i> , 2017, 28, 445301. | 1.3 | 14 |
| 45 | Structural and magnetic properties of [001] CoC ₂ O ₄ thin films. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 9 |
| 46 | Probing Strain-Induced Phenomena in Low Dimensionality Multiferroic Oxides. <i>Microscopy and Microanalysis</i> , 2017, 23, 1726-1727. | 0.2 | 0 |
| 47 | On the nature of the (de)coupling of the magnetostructural transition in Er ₅ Si ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700143. | 0.7 | 1 |
| 48 | Oxygen vacancies in strained SrTiO ₃ thin films: Formation enthalpy and manipulation. <i>Physical Review B</i> , 2017, 95, . | 2.5 | 25 |
| 49 | Structurally Oriented Nano-Sheets in Co Thin Films: Changing Their Anisotropic Physical Properties by Thermally-Induced Relaxation. <i>Materials</i> , 2017, 10, 1390. | 1.3 | 5 |
| 50 | 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. | 1.5 | 20 |
| 51 | In Situ Lorentz Microscopy and Electron Holography Magnetization Studies of Ferromagnetic Focused Electron Beam Induced Nanodeposits. , 2017, , 305-338. | | 0 |
| 52 | Structural and magnetic properties of He ⁺ irradiated Co ₂ MnSi Heusler alloys. <i>Materials Research Express</i> , 2016, 3, 046101. | 0.8 | 8 |
| 53 | Assemblies of magnetite nanoparticles extracted from magnetotactic bacteria: A magnetic study. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 18 |
| 54 | Highly strained AlAs-type interfaces in InAs/AlSb heterostructures. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 19 |

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|----|--|------|-----------|
| 55 | Orientation symmetry breaking in self-assembled Ce _{1-x} Gd _x O _{2-y} nanowires derived from chemical solutions. RSC Advances, 2016, 6, 97226-97236. | 1.7 | 8 |
| 56 | Quantitative parameters for the examination of InGaN QW multilayers by low-loss EELS. Physical Chemistry Chemical Physics, 2016, 18, 23264-23276. | 1.3 | 4 |
| 57 | Emerging Diluted Ferromagnetism in High-T _c Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295. | 5.6 | 41 |
| 58 | Untangling Electrostatic and Strain Effects on the Polarization of Ferroelectric Superlattices. Advanced Functional Materials, 2016, 26, 6446-6453. | 7.8 | 23 |
| 59 | Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. Physical Review B, 2016, 93, . | 1.1 | 87 |
| 60 | Aliovalent Doping in Colloidal Quantum Dots and Its Manifestation on Their Optical Properties: Surface Attachment versus Structural Incorporation. Chemistry of Materials, 2016, 28, 5384-5393. | 3.2 | 15 |
| 61 | Three-dimensional core-shell ferromagnetic nanowires grown by focused electron beam induced deposition. Nanotechnology, 2016, 27, 285302. | 1.3 | 33 |
| 62 | Independent Control of the Magnetization in Ferromagnetic La _{2/3} Sr _{1/3} MnO ₃ /SrTiO ₃ /LaCoO ₃ Heterostructures Achieved by Epitaxial Lattice Mismatch. Nano Letters, 2016, 16, 1736-1740. | 4.5 | 19 |
| 63 | Building oriented nano-sheets in thin films of Co TM (MT=AV, Cr, Cu, Zn, Cd, Hf) and the generation and enhancement of their magnetic anisotropy. Journal of Alloys and Compounds, 2016, 664, 695-706. | 2.8 | 6 |
| 64 | Polar-Graded Multiferroic SrMnO ₃ Thin Films. Nano Letters, 2016, 16, 2221-2227. | 4.5 | 45 |
| 65 | Twin-Induced InSb Nanosails: A Convenient High Mobility Quantum System. Nano Letters, 2016, 16, 825-833. | 4.5 | 74 |
| 66 | Nature of antiferromagnetic order in epitaxially strained multiferroic SrMnO ₃ thin films. Physical Review B, 2015, 92, . | 1.1 | 14 |
| 67 | Electronic Degeneracy and Intrinsic Magnetic Properties of Epitaxial Nb ₃ Films Controlled by Defects. Physical Review Letters, 2015, 115, 166801. | 2.9 | 24 |
| 68 | Abrupt GaP/Si hetero-interface using bstepped Si buffer. Applied Physics Letters, 2015, 107, . | 1.5 | 19 |
| 69 | Local Chemical and Deformation Profiles in InAs/AlSb Multilayer Structures for Quantum Cascade Lasers. Microscopy and Microanalysis, 2015, 21, 1925-1926. | 0.2 | 0 |
| 70 | Atomic Scale Structure and Reduction of Cerium Oxide at the Interface with Platinum. Advanced Materials Interfaces, 2015, 2, 1500375. | 1.9 | 25 |
| 71 | Achieving Giant Magnetically Induced Reorientation of Martensitic Variants in Magnetic Shape-Memory Ni ₄₉ Mn ₅₁ Ga Films by Microstructure Engineering. Advanced Materials, 2015, 27, 4760-4766. | 11.1 | 36 |
| 72 | Influence of the shape and surface oxidation in the magnetization reversal of thin iron nanowires grown by focused electron beam induced deposition. Beilstein Journal of Nanotechnology, 2015, 6, 1319-1331. | 1.5 | 23 |

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| 73 | Strain-induced coupling of electrical polarization and structural defects in SrMnO ₃ films. Nature Nanotechnology, 2015, 10, 661-665. | 15.6 | 153 |
| 74 | Spin configuration in isolated FeCoCu nanowires modulated in diameter. Nanotechnology, 2015, 26, 395702. | 1.3 | 26 |
| 75 | Morphology of the asymmetric iron-silicon interfaces. Journal of Alloys and Compounds, 2015, 627, 136-145. | 2.8 | 7 |
| 76 | Position-Controlled Growth of GaN Nanowires and Nanotubes on Diamond by Molecular Beam Epitaxy. Nano Letters, 2015, 15, 1773-1779. | 4.5 | 69 |
| 77 | Whispering Gallery Mode Lasing from Hexagonal Shaped Layered Lead Iodide Crystals. ACS Nano, 2015, 9, 687-695. | 7.3 | 118 |
| 78 | Structural and Hydrogen Storage Properties of Y ₂ Ni ₇ Deuterides Studied by Neutron Powder Diffraction. Journal of Physical Chemistry C, 2015, 119, 12218-12225. | 1.5 | 31 |
| 79 | Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. Nanoscale, 2015, 7, 7717-7725. | 2.8 | 16 |
| 80 | Strain-induced spatially indirect exciton recombination in zinc-blende/wurtzite CdS heterostructures. Nano Research, 2015, 8, 3035-3044. | 5.8 | 14 |
| 81 | Epitaxial Stabilization of the Perovskite Phase in (Sr _{1-x} Ba _x)MnO ₃ Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 23967-23977. | 4.0 | 22 |
| 82 | Formation of strained interfaces in AlSb/InAs multilayers grown by molecular beam epitaxy for quantum cascade lasers. Journal of Applied Physics, 2015, 118, . | 1.1 | 21 |
| 83 | 3D Magnetic Induction Maps of Nanoscale Materials Revealed by Electron Holographic Tomography. Chemistry of Materials, 2015, 27, 6771-6778. | 3.2 | 64 |
| 84 | Interfacial effects on the tunneling magnetoresistance in $L_{0.7}S_r$ | 1.1 | 9 |
| 85 | Observation of the Strain Induced Magnetic Phase Segregation in Manganite Thin Films. Nano Letters, 2015, 15, 492-497. | 4.5 | 35 |
| 86 | Phase Competitions behind the Giant Magnetic Entropy Variation: Gd ₅ Si ₂ Ge ₂ and Tb ₅ Si ₂ Ge ₂ Case Studies. Entropy, 2014, 16, 3813-3831. | 1.1 | 19 |
| 87 | Screening of the quantum-confined Stark effect in AlN/GaN nanowire superlattices by germanium doping. Applied Physics Letters, 2014, 104, . | 1.5 | 23 |
| 88 | Iron silicide formation at different layers of (Fe/Si) ₃ multilayered structures determined by conversion electron Mössbauer spectroscopy. Journal of Applied Physics, 2014, 116, 023907. | 1.1 | 6 |
| 89 | Heteroepitaxial ZnO films on diamond: Optoelectronic properties and the role of interface polarity. Journal of Applied Physics, 2014, 115, 213508. | 1.1 | 3 |
| 90 | Role of magnetic anisotropy on the magnetic properties of Ni nanoclusters embedded in a ZnO matrix. Journal of Applied Physics, 2014, 116, 033916. | 1.1 | 0 |

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| 91 | Tunnel Conduction in Epitaxial Bilayers of Ferromagnetic LaCoO ₃ /La _{2/3} Sr _{1/3} MnO ₃ Deposited by a Chemical Solution Method. ACS Applied Materials & Interfaces, 2014, 6, 21279-21285. | 4.0 | 10 |
| 92 | Magnetic behavior of NiCu nanowire arrays: Compositional, geometry and temperature dependence. Journal of Applied Physics, 2014, 116, . | 1.1 | 26 |
| 93 | Investigation of the Phase Occurrence, H Sorption Properties, and Electrochemical Behavior in the Composition Ranges La _{0.75} Ca _{0.80} Mg _{0.30} Ni _{3.67} . Journal of Physical Chemistry C, 2014, 118, 27808-27814. | 1.5 | 8 |
| 94 | Exciton footprint of self-assembled AlGaAs quantum dots in core-shell nanowires. Physical Review B, 2014, 90, . | 1.1 | 21 |
| 95 | Elastic strains at interfaces in InAs/AlSb multilayer structures for quantum cascade lasers. Applied Physics Letters, 2014, 104, 031907. | 1.5 | 15 |
| 96 | Size-controlled spontaneously segregated Ba ₂ YTaO ₆ nanoparticles in YBa ₂ Cu ₃ O ₇ nanocomposites obtained by chemical solution deposition. Superconductor Science and Technology, 2014, 27, 044008. | 1.8 | 46 |
| 97 | Enhanced Magnetotransport in Nanopatterned Manganite Nanowires. Nano Letters, 2014, 14, 423-428. | 4.5 | 16 |
| 98 | Thermomagnetic behaviour and compositional irreversibility on (Fe/Si) ₃ multilayer films. Journal of Magnetism and Magnetic Materials, 2014, 364, 24-33. | 1.0 | 5 |
| 99 | Synthesis of Pb ₂ Single-Layered Inorganic Nanotubes Encapsulated Within Carbon Nanotubes. Advanced Materials, 2014, 26, 2016-2021. | 11.1 | 52 |
| 100 | Structural and Magnetic Characterization of FeCoCu/Cu Multilayer Nanowire Arrays. IEEE Magnetics Letters, 2014, 5, 1-4. | 0.6 | 15 |
| 101 | Artificial chemical and magnetic structure at the domain walls of an epitaxial oxide. Nature, 2014, 515, 379-383. | 13.7 | 146 |
| 102 | Te-seeded growth of few-quintuple layer Bi ₂ Te ₃ nanoplates. Nano Research, 2014, 7, 1243-1253. | 5.8 | 22 |
| 103 | Atomic Scale Strain Relaxation in Axial Semiconductor III-V Nanowire Heterostructures. Nano Letters, 2014, 14, 6614-6620. | 4.5 | 94 |
| 104 | Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. Nanoscale, 2014, 6, 14971-14983. | 2.8 | 18 |
| 105 | p-GaN/n-ZnO Heterojunction Nanowires: Optoelectronic Properties and the Role of Interface Polarity. ACS Nano, 2014, 8, 4376-4384. | 7.3 | 99 |
| 106 | Simple hydrothermal synthesis method for tailoring the physicochemical properties of ZnO: morphology, surface area and polarity. RSC Advances, 2014, 4, 31166. | 1.7 | 14 |
| 107 | Direct Monolithic Integration of Vertical Single Crystalline Octahedral Molecular Sieve Nanowires on Silicon. Chemistry of Materials, 2014, 26, 1019-1028. | 3.2 | 13 |
| 108 | Magnetic antidot to dot crossover in Co and Py nanopatterned thin films. Physical Review B, 2014, 89, . | 1.1 | 35 |

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| 109 | High-resolution imaging of remanent state and magnetization reversal of superdomain structures in high-density cobalt antidot arrays. <i>Nanotechnology</i> , 2014, 25, 385703. | 1.3 | 10 |
| 110 | Nanoparticles of Ni in ZnO single crystal matrix. <i>European Physical Journal B</i> , 2013, 86, 1. | 0.6 | 4 |
| 111 | Electrochemical promotion of Pt nanoparticles dispersed on a diamond-like carbon matrix: A novel electrocatalytic system for H ₂ production. <i>Journal of Catalysis</i> , 2013, 307, 18-26. | 3.1 | 21 |
| 112 | Quantitative in situ magnetization reversal studies in Lorentz microscopy and electron holography. <i>Ultramicroscopy</i> , 2013, 134, 144-154. | 0.8 | 25 |
| 113 | Structural and compositional properties of Er-doped silicon nanoclusters/oxides for multilayered photonic devices studied by STEM-EELS. <i>Nanoscale</i> , 2013, 5, 9963. | 2.8 | 3 |
| 114 | Improvement of domain wall conduit properties in cobalt nanowires by global gallium irradiation. <i>Nanotechnology</i> , 2013, 24, 345703. | 1.3 | 14 |
| 115 | Thickness scaling of ferroelastic domains in PbTiO ₃ films on DyScO ₃ . <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 46 |
| 116 | Effects of pressure on the magnetic-structural and Griffiths-like transitions in Dy ₅ Si ₃ Ge. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 6 |
| 117 | Heterovalent cation substitutional doping for quantum dot homojunction solar cells. <i>Nature Communications</i> , 2013, 4, 2981. | 5.8 | 111 |
| 118 | Spin-to-charge conversion using Rashba coupling at the interface between non-magnetic materials. <i>Nature Communications</i> , 2013, 4, 2944. | 5.8 | 661 |
| 119 | Solution phase van der Waals epitaxy of ZnO wire arrays. <i>Nanoscale</i> , 2013, 5, 7242. | 2.8 | 27 |
| 120 | Identification of the atomic scale structure of the La _{0.65} Nd _{0.15} Mg _{0.20} Ni _{3.5} alloy synthesized by spark plasma sintering. <i>Intermetallics</i> , 2013, 32, 103-108. | 1.8 | 23 |
| 121 | Self-assembled quantum dots in a nanowire system for quantum photonics. <i>Nature Materials</i> , 2013, 12, 439-444. | 13.3 | 306 |
| 122 | Platinum Electrodeposition on Unsupported Single Wall Carbon Nanotubes and Its Application as Methane Sensing Material. <i>Journal of the Electrochemical Society</i> , 2013, 160, H98-H104. | 1.3 | 29 |
| 123 | Critical magnetic behavior of magnetocaloric materials with the Gd ₅ Si ₄ -type structure. <i>Journal of Applied Physics</i> , 2013, 113, . | 1.1 | 17 |
| 124 | Optimized cobalt nanowires for domain wall manipulation imaged by <i>in situ</i> Lorentz microscopy. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 23 |
| 125 | The Growth of Ultralong ZnTe Micro/Nanostructures: The Influence of Polarity and Twin Direction on the Morphogenesis of Nanobelts and Nanosheets. <i>Crystal Growth and Design</i> , 2013, 13, 2590-2596. | 1.4 | 18 |
| 126 | Strain-driven broken twin boundary coherence in YBa ₂ Cu ₃ O _{7-δ} nanocomposite thin films. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 39 |

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|-----|--|-----|-----------|
| 127 | Insight into the Compositional and Structural Nano Features of AlN/GaN DBRs by EELS-HAADF. Microscopy and Microanalysis, 2013, 19, 698-705. | 0.2 | 10 |
| 128 | Twinning, Polytypism, and Polarity-Induced Morphological Modulation in Nonplanar Nanostructures with van der Waals Epitaxy. Advanced Functional Materials, 2013, 23, 1636-1646. | 7.8 | 59 |
| 129 | High temperature finite-size effects in the magnetic properties of Ni nanowires. Journal of Applied Physics, 2012, 112, 073906. | 1.1 | 18 |
| 130 | Magnetism and magnetocaloric effect of single-crystal Er ₅ Si ₄ under pressure. Physical Review B, 2012, 85, . | 1.1 | 10 |
| 131 | Magnetic Properties of Epitaxial Discontinuous Fe/MgO Multilayers. Journal of Nanoscience and Nanotechnology, 2012, 12, 7505-7509. | 0.9 | 1 |
| 132 | Optoelectronic Properties of InAlN/GaN Distributed Bragg Reflector Heterostructure Examined by Valence Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2012, 18, 1143-1154. | 0.2 | 23 |
| 133 | Polarity Assignment in ZnTe, GaAs, ZnO, and GaN-AlN Nanowires from Direct Dumbbell Analysis. Nano Letters, 2012, 12, 2579-2586. | 4.5 | 161 |
| 134 | Nanoscale mapping of plasmon resonances of functional multibranching gold nanoparticles. Chemical Communications, 2012, 48, 8667. | 2.2 | 7 |
| 135 | Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. Nanoscale, 2012, 4, 1486. | 2.8 | 73 |
| 136 | Carbon-Al ₂ O ₃ -Ag composite molecular sieve membranes for gas separation. Chemical Engineering Research and Design, 2012, 90, 2338-2345. | 2.7 | 40 |
| 137 | Chemical synthesis of oriented ferromagnetic LaSr ₂ Å—4 manganese oxide molecular sieve nanowires. Chemical Communications, 2012, 48, 6223. | 2.2 | 11 |
| 138 | Co/Ni(111) superlattices studied by microscopy, x-ray absorption, and <i>ab initio</i> calculations. Physical Review B, 2012, 86, . | 1.1 | 45 |
| 139 | Strong Paramagnetism of Gold Nanoparticles Deposited on a <i>Sulfolobus acidocaldarius</i> S-Layer. Physical Review Letters, 2012, 109, 247203. | 2.9 | 33 |
| 140 | Incommensurate van der Waals Epitaxy of Nanowire Arrays: A Case Study with ZnO on Muscovite Mica Substrates. Nano Letters, 2012, 12, 2146-2152. | 4.5 | 117 |
| 141 | Phase control studies in Gd ₅ Si ₂ Ge ₂ giant magnetocaloric compound. Journal of Alloys and Compounds, 2012, 529, 89-95. | 2.8 | 25 |
| 142 | Tailoring the Synthesis and Heating Ability of Gold Nanoprisms for Bioapplications. Langmuir, 2012, 28, 8965-8970. | 1.6 | 167 |
| 143 | Self-assembled GaN quantum wires on GaN/AlN nanowire templates. Nanoscale, 2012, 4, 7517. | 2.8 | 49 |
| 144 | Ultrathin MgO Coating of Superparamagnetic Magnetite Nanoparticles by Combined Coprecipitation and Sol-Gel Synthesis. Chemistry of Materials, 2012, 24, 451-456. | 3.2 | 42 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | Synthesis and characterization of ultra-small magnetic FeNi/G and NiCo/G nanoparticles. Nanotechnology, 2012, 23, 085601. | 1.3 | 33 |
| 146 | Nanoscale strain-induced pair suppression as a vortex-pinning mechanism in high-temperature superconductors. Nature Materials, 2012, 11, 329-336. | 13.3 | 298 |
| 147 | $\text{Si}_{5-2x}\text{Ge}_x$ | 1.1 | 15 |
| 148 | Self-Assembled GaN Nanowires on Diamond. Nano Letters, 2012, 12, 2199-2204. | 4.5 | 73 |
| 149 | On the structure of bimetallic noble metal nanoparticles as revealed by aberration corrected scanning transmission electron microscopy (STEM). Micron, 2012, 43, 557-564. | 1.1 | 12 |
| 150 | A new linear transfer theory and characterization method for image detectors. Part II: Experiment. Ultramicroscopy, 2012, 115, 78-87. | 0.8 | 22 |
| 151 | High-Yield Production of Long Branched Au Nanoparticles Characterized by Atomic Resolution Transmission Electron Microscopy. Crystal Growth and Design, 2011, 11, 4538-4543. | 1.4 | 16 |
| 152 | Three-Dimensional Multiple-Order Twinning of Self-Catalyzed GaAs Nanowires on Si Substrates. Nano Letters, 2011, 11, 3827-3832. | 4.5 | 123 |
| 153 | Applications of Aberration-Corrected Scanning Transmission Electron Microscopy and Electron Energy Loss Spectroscopy to Complex Oxide Materials. , 2011, , 429-466. | | 5 |
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