

Marta D Rossell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

11,349
citations

44
h-index

105
g-index

174
ext. papers

12,600
ext. citations

8
avg, IF

5.99
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 161 | Asynchronous current-induced switching of rare-earth and transition-metal sublattices in ferrimagnetic alloys.. <i>Nature Materials</i> , 2022 , | 27 | 4 |
| 160 | Ultra-narrow room-temperature emission from single CsPbBr perovskite quantum dots.. <i>Nature Communications</i> , 2022 , 13, 2587 | 17.4 | 8 |
| 159 | Inversion-Symmetry Engineering in Layered Oxide Thin Films. <i>Nano Letters</i> , 2021 , 21, 2780-2785 | 11.5 | 6 |
| 158 | Layer and spontaneous polarizations in perovskite oxides and their interplay in multiferroic bismuth ferrite. <i>Journal of Chemical Physics</i> , 2021 , 154, 154702 | 3.9 | 5 |
| 157 | High conductivity InAlN/GaN multi-channel two-dimensional electron gases. <i>Semiconductor Science and Technology</i> , 2021 , 36, 055020 | 1.8 | 3 |
| 156 | Millisecond photonic sintering of iron oxide doped alumina ceramic coatings. <i>Scientific Reports</i> , 2021 , 11, 3536 | 4.9 | 2 |
| 155 | Magnetoelectric coupling in micropatterned BaTiO ₃ /CoFe ₂ O ₄ epitaxial thin film structures: Augmentation and site-dependency. <i>Applied Physics Letters</i> , 2021 , 119, 012901 | 3.4 | 5 |
| 154 | Ferromagnetic insulating epitaxially strained La ₂ NiMnO ₆ thin films grown by sputter deposition. <i>APL Materials</i> , 2021 , 9, 081111 | 5.7 | 2 |
| 153 | Evaluation of the Nanodomain Structure in In-Zn-O Transparent Conductors. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 1 |
| 152 | Robust In-Plane Ferroelectricity in Ultrathin Epitaxial Aurivillius Films. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000202 | 4.6 | 15 |
| 151 | High-Mobility InO:H Electrodes for Four-Terminal Perovskite/CuInSe Tandem Solar Cells. <i>ACS Nano</i> , 2020 , 14, 7502-7512 | 16.7 | 25 |
| 150 | Solution Processing and Self-Organization of PbS Quantum Dots Passivated with Formamidinium Lead Iodide (FAPbI). <i>ACS Omega</i> , 2020 , 5, 15746-15754 | 3.9 | 5 |
| 149 | Coarsening- and creep resistance of precipitation-strengthened AlMgZr alloys processed by selective laser melting. <i>Acta Materialia</i> , 2020 , 188, 192-202 | 8.4 | 39 |
| 148 | Atomic-resolution differential phase contrast STEM on ferroelectric materials: A mean-field approach. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 6 |
| 147 | Atomic structure and electronic properties of planar defects in SrFeO ₃ thin films. <i>Physical Review Materials</i> , 2020 , 4, | 3.2 | 1 |
| 146 | Epitaxial integration of improper ferroelectric hexagonal YMnO ₃ thin films in heterostructures. <i>Physical Review Materials</i> , 2020 , 4, | 3.2 | 5 |
| 145 | Probing local order in multiferroics by transmission electron microscopy. <i>Physical Sciences Reviews</i> , 2020 , 5, | 1.4 | 5 |

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| 144 | In-situ monitoring of interface proximity effects in ultrathin ferroelectrics. <i>Nature Communications</i> , 2020 , 11, 5815 | 17.4 | 11 |
| 143 | High-speed III-V nanowire photodetector monolithically integrated on Si. <i>Nature Communications</i> , 2020 , 11, 4565 | 17.4 | 54 |
| 142 | Imaging and quantification of charged domain walls in BiFeO. <i>Nanoscale</i> , 2020 , 12, 9186-9193 | 7.7 | 13 |
| 141 | Depolarizing-Field Effects in Epitaxial Capacitor Heterostructures. <i>Physical Review Letters</i> , 2019 , 123, 147601 | 7.4 | 19 |
| 140 | InAlN underlayer for near ultraviolet InGaN based light emitting diodes. <i>Applied Physics Express</i> , 2019 , 12, 034002 | 2.4 | 23 |
| 139 | Atomic-scale structural characterization of grain boundaries in epitaxial Ge/Si microcrystals by HAADF-STEM. <i>Acta Materialia</i> , 2019 , 167, 159-166 | 8.4 | 3 |
| 138 | Direct-epitaxial growth of SrAl ₂ O ₄ :Eu,Dy thin films on Al ₂ O ₃ substrate by pulsed laser deposition. <i>Applied Surface Science</i> , 2019 , 491, 53-59 | 6.7 | 3 |
| 137 | Buried In-Plane Ferroelectric Domains in Fe-Doped Single-Crystalline Aurivillius Thin Films. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1019-1028 | 4 | 19 |
| 136 | Effect of thermal annealing on the interface quality of Ge/Si heterostructures. <i>Scripta Materialia</i> , 2019 , 170, 52-56 | 5.6 | 4 |
| 135 | Transition to the quantum hall regime in InAs nanowire cross-junctions. <i>Semiconductor Science and Technology</i> , 2019 , 34, 035028 | 1.8 | 4 |
| 134 | Zeolite-Templated Carbon as the Cathode for a High Energy Density Dual-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17686-17696 | 9.5 | 27 |
| 133 | Domain-wall motion and interfacial Dzyaloshinskii-Moriya interactions in Pt/Co/Ir()/Ta multilayers. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 28 |
| 132 | Structure and properties of edge dislocations in BiFeO ₃ . <i>Physical Review Materials</i> , 2019 , 3, | 3.2 | 5 |
| 131 | The ultrathin limit of improper ferroelectricity. <i>Nature Communications</i> , 2019 , 10, 5591 | 17.4 | 24 |
| 130 | Facet-selective group-III incorporation in InGaAs template assisted selective epitaxy. <i>Nanotechnology</i> , 2019 , 30, 084004 | 3.4 | 13 |
| 129 | Remarkable Carbon Dioxide Hydrogenation to Ethanol on a Palladium/Iron Oxide Single-Atom Catalyst. <i>ChemCatChem</i> , 2018 , 10, 2365-2369 | 5.2 | 43 |
| 128 | Periodic Giant Polarization Gradients in Doped BiFeO Thin Films. <i>Nano Letters</i> , 2018 , 18, 717-724 | 11.5 | 36 |
| 127 | Microstructure and mechanical properties of Al-Mg-Zr alloys processed by selective laser melting. <i>Acta Materialia</i> , 2018 , 153, 35-44 | 8.4 | 175 |

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| 126 | Effect of laser rescanning on the grain microstructure of a selective laser melted Al-Mg-Zr alloy. <i>Materials Characterization</i> , 2018 , 143, 34-42 | 3.9 | 92 |
| 125 | Strain-induced ferroelectricity and spin-lattice coupling in SrMnO ₃ thin films. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 33 |
| 124 | ALD-Zn Ti O as Window Layer in Cu(In,Ga)Se Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43603-43609 | 9.5 | 13 |
| 123 | Liquid Phase Studies of Nanomaterials. <i>Chimia</i> , 2018 , 72, 727 | 1.3 | 1 |
| 122 | Epitaxial Thin Films as a Model System for Li-Ion Conductivity in LiTiO. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44494-44500 | 9.5 | 14 |
| 121 | HAADF-STEM Investigation of III-V Semiconductors Grown on Nanopatterned Si(001) Substrates. <i>Microscopy and Microanalysis</i> , 2018 , 24, 140-141 | 0.5 | |
| 120 | Dopant-Induced Modifications of Ga InP Nanowire-Based p-n Junctions Monolithically Integrated on Si(111). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32588-32596 | 9.5 | 14 |
| 119 | A comparative study of defect formation in GaAs nanocrystals selectively grown on nanopatterned and flat Si(001) substrates. <i>Micron</i> , 2018 , 113, 83-90 | 2.3 | |
| 118 | Microstructure and ferroelectricity of BaTiO thin films on Si for integrated photonics. <i>Nanotechnology</i> , 2017 , 28, 075706 | 3.4 | 53 |
| 117 | Atomic Layer Deposition of Titanium Oxide on Single-Layer Graphene: An Atomic-Scale Study toward Understanding Nucleation and Growth. <i>Chemistry of Materials</i> , 2017 , 29, 2232-2238 | 9.6 | 21 |
| 116 | Structural and optical characterization of GaAs nano-crystals selectively grown on Si nano-tips by MOVPE. <i>Nanotechnology</i> , 2017 , 28, 135301 | 3.4 | 15 |
| 115 | High-Mobility GaSb Nanostructures Cointegrated with InAs on Si. <i>ACS Nano</i> , 2017 , 11, 2554-2560 | 16.7 | 42 |
| 114 | Bi-modal nanoheteroepitaxy of GaAs on Si by metal organic vapor phase epitaxy. <i>Nanotechnology</i> , 2017 , 28, 135701 | 3.4 | 13 |
| 113 | Selective Nucleation of GaAs on Si Nanofacets. <i>Small</i> , 2017 , 13, 1603122 | 11 | 7 |
| 112 | NH ₂ - or PPh ₂ -functionalized linkers for the immobilization of palladium on magnetite nanoparticles?. <i>RSC Advances</i> , 2017 , 7, 27872-27880 | 3.7 | 2 |
| 111 | Manipulating Surface States of III-V Nanowires with Uniaxial Stress. <i>Nano Letters</i> , 2017 , 17, 2816-2824 | 11.5 | 25 |
| 110 | Domain Wall Architecture in Tetragonal Ferroelectric Thin Films. <i>Advanced Materials</i> , 2017 , 29, 1605145 | 24 | 46 |
| 109 | Observation of Twin-free GaAs Nanowire Growth Using Template-Assisted Selective Epitaxy. <i>Crystal Growth and Design</i> , 2017 , 17, 6297-6302 | 3.5 | 23 |

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|-----|--|------|----|
| 108 | Strain relaxation in epitaxial GaAs/Si (0 0 1) nanostructures. <i>Philosophical Magazine</i> , 2017 , 97, 2845-2857 | 1.6 | 7 |
| 107 | Understanding the Effect of Doping and Epitaxial Strain on the Ferroelectric Polarization of Layered Perovskite Thin Films. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1606-1607 | 0.5 | |
| 106 | Formation of Au Nanoparticles in Liquid Cell Transmission Electron Microscopy: From a Systematic Study to Engineered Nanostructures. <i>Chemistry of Materials</i> , 2017 , 29, 10518-10525 | 9.6 | 32 |
| 105 | Strain relaxation in epitaxial Ge crystals grown on patterned Si(001) substrates. <i>Scripta Materialia</i> , 2017 , 127, 169-172 | 5.6 | 11 |
| 104 | Structural defects in cubic semiconductors characterized by aberration-corrected scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2017 , 176, 11-22 | 3.1 | 25 |
| 103 | A tool for automatic recognition of [110] tilt grain boundaries in zincblende-type crystals. <i>Journal of Applied Crystallography</i> , 2017 , 50, 1299-1306 | 3.8 | 4 |
| 102 | Strain-driven oxygen deficiency in multiferroic SrMnO ₃ thin films. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 34 |
| 101 | Low-Loss BaTiO ₃ /Bi Waveguides for Nonlinear Integrated Photonics. <i>ACS Photonics</i> , 2016 , 3, 1698-1703 | 6.3 | 55 |
| 100 | Strain-driven oxygen deficiency in multiferroic SrMnO ₃ thin films 2016 , 946-947 | | |
| 99 | Dislocation Modelling: Calculating EELS Spectra for Edge Dislocation in Bismuth Ferrite 2016 , 797-798 | | |
| 98 | High Conformity and Large Domain Monocrystalline Anatase on Multiwall Carbon Nanotube Core/Shell Nanostructure: Synthesis, Structure, and Interface. <i>Chemistry of Materials</i> , 2016 , 28, 3488-3498 | 9.6 | 19 |
| 97 | Growth Assisted by Glancing Angle Deposition: A New Technique to Fabricate Highly Porous Anisotropic Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8686-93 | 9.5 | 12 |
| 96 | Analysis of nanoscale band gap fluctuations in Cu(In,Ga)Se ₂ solar cells by VEELS 2016 , 848-849 | | |
| 95 | Highly water-dispersible magnetite-supported Pd nanoparticles and single atoms as excellent catalysts for Suzuki and hydrogenation reactions. <i>RSC Advances</i> , 2016 , 6, 68675-68684 | 3.7 | 15 |
| 94 | Heavy-Hole States in Germanium Nanowires. <i>Nano Letters</i> , 2016 , 16, 6879-6885 | 11.5 | 44 |
| 93 | Assessment of off-axis and in-line electron holography for measurement of potential variations in Cu(In,Ga)Se ₂ thin-film solar cells. <i>Advanced Structural and Chemical Imaging</i> , 2016 , 2, | 3.9 | 6 |
| 92 | Magnetite-supported palladium single-atoms do not catalyse the hydrogenation of alkenes but small clusters do. <i>Catalysis Science and Technology</i> , 2016 , 6, 4081-4085 | 5.5 | 50 |
| 91 | Intergranular pore space evolution in MX80 bentonite during a long-term experiment. <i>Applied Clay Science</i> , 2015 , 104, 150-159 | 5.2 | 5 |

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|----|--|------|----|
| 90 | Direct Evidence of Surface Reduction in Monoclinic BiVO ₄ . <i>Chemistry of Materials</i> , 2015 , 27, 3593-3600 | 9.6 | 69 |
| 89 | Carbon-metal interfaces analyzed by aberration-corrected TEM: how copper and nickel nanoparticles interact with MWCNTs. <i>Micron</i> , 2015 , 72, 52-8 | 2.3 | 13 |
| 88 | Oxygenated amorphous carbon for resistive memory applications. <i>Nature Communications</i> , 2015 , 6, 8600 | 7.4 | 64 |
| 87 | 4-Mercaptophenyldiphenylphosphine as linker to immobilize Pd onto the surface of magnetite nanoparticles. Excellent catalytic efficiency of the system after partial linker removal. <i>RSC Advances</i> , 2015 , 5, 91340-91348 | 3.7 | 6 |
| 86 | Confined Epitaxial Lateral Overgrowth (CELO): A novel concept for scalable integration of CMOS-compatible InGaAs-on-insulator MOSFETs on large-area Si substrates 2015 , | | 36 |
| 85 | Manipulating the reaction path of the CO ₂ hydrogenation reaction in molecular sieves. <i>Catalysis Science and Technology</i> , 2015 , 5, 4613-4621 | 5.5 | 28 |
| 84 | Analysis of edge threading dislocations $b \rightarrow 12\langle 110 \rangle$ in three dimensional Ge crystals grown on (001)-Si substrates. <i>Applied Physics Letters</i> , 2015 , 107, 093501 | 3.4 | 5 |
| 83 | One-Pot Polyol Synthesis of Pt/CeO ₂ and Au/CeO ₂ Nanopowders as Catalysts for CO Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3530-9 | 1.3 | 16 |
| 82 | Understanding and Controlling Nucleation and Growth of TiO ₂ Deposited on Multiwalled Carbon Nanotubes by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3379-3387 | 3.8 | 32 |
| 81 | Nanoscale phase separation in perovskites revisited. <i>Nature Materials</i> , 2014 , 13, 216-7 | 27 | 9 |
| 80 | Single-step functionalization of vertically aligned MWCNTs with Cu and Ni by chemical reduction of copper and nickel acetyl acetonate in benzyl alcohol. <i>Carbon</i> , 2014 , 73, 146-154 | 10.4 | 8 |
| 79 | Monodisperse colloidal gallium nanoparticles: synthesis, low temperature crystallization, surface plasmon resonance and Li-ion storage. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12422-30 | 16.4 | 87 |
| 78 | Surface Reduction in Monoclinic BiVO ₄ for Photocatalytic Applications. <i>Microscopy and Microanalysis</i> , 2014 , 20, 436-437 | 0.5 | |
| 77 | Growth and characterization of CNT-TiO ₂ heterostructures. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 946-55 | 3 | 20 |
| 76 | A General Approach To Fabricate Fe ₃ O ₄ Nanoparticles Decorated with Pd, Au, and Rh: Magnetically Recoverable and Reusable Catalysts for Suzuki C-C Cross-Coupling Reactions, Hydrogenation, and Sequential Reactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 11963-74 | 4.8 | 37 |
| 75 | A comprehensive study of the crystallization mechanism involved in the nonaqueous formation of tungstite. <i>Nanoscale</i> , 2013 , 5, 8517-25 | 7.7 | 28 |
| 74 | Controlling tetragonality and crystalline orientation in BaTiO ₃ nano-layers grown on Si. <i>Nanotechnology</i> , 2013 , 24, 285701 | 3.4 | 38 |
| 73 | Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. <i>Carbon</i> , 2013 , 61, 404-411 | 10.4 | 46 |

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|----|--|------|-----|
| 72 | Characterization of multi-scale microstructural features in Opalinus Clay. <i>Microporous and Mesoporous Materials</i> , 2013 , 170, 83-94 | 5.3 | 131 |
| 71 | Direct evidence of stacking disorder in the mixed ionic-electronic conductor Sr ₄ Fe ₆ O ₁₂ + \square ACS <i>Nano</i> , 2013 , 7, 3078-85 | 16.7 | 5 |
| 70 | A strong electro-optically active lead-free ferroelectric integrated on silicon. <i>Nature Communications</i> , 2013 , 4, 1671 | 17.4 | 192 |
| 69 | Nanosession: Ferroelectric Interfaces 2013 , 399-408 | | |
| 68 | Microwave-Assisted Nonaqueous Sol-Gel Synthesis: From Al:ZnO Nanoparticles to Transparent Conducting Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 152-160 | 8.3 | 48 |
| 67 | Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li ₃ xNd _{2/3} TiO ₃ Perovskites. <i>Chemistry of Materials</i> , 2013 , 25, 2670-2683 | 9.6 | 27 |
| 66 | Electromechanical coupling among edge dislocations, domain walls, and nanodomains in BiFeO ₃ revealed by unit-cell-wise strain and polarization maps. <i>Nano Letters</i> , 2013 , 13, 1410-5 | 11.5 | 65 |
| 65 | Study of the chemical mechanism involved in the formation of tungstite in benzyl alcohol by the advanced QEXAFS technique. <i>Chemistry - A European Journal</i> , 2012 , 18, 2305-12 | 4.8 | 24 |
| 64 | Evidence of sharp and diffuse domain walls in BiFeO ₃ by means of unit-cell-wise strain and polarization maps obtained with high resolution scanning transmission electron microscopy. <i>Physical Review Letters</i> , 2012 , 109, 047601 | 7.4 | 50 |
| 63 | An integration path for gate-first UTB III-V-on-insulator MOSFETs with silicon, using direct wafer bonding and donor wafer recycling 2012 , | | 32 |
| 62 | Direct imaging of dopant clustering in metal-oxide nanoparticles. <i>ACS Nano</i> , 2012 , 6, 7077-83 | 16.7 | 30 |
| 61 | A two-dimensional polymer prepared by organic synthesis. <i>Nature Chemistry</i> , 2012 , 4, 287-91 | 17.6 | 333 |
| 60 | Formation mechanism of LiFePO ₄ sticks grown by a microwave-assisted liquid-phase process. <i>Small</i> , 2012 , 8, 2231-8 | 11 | 17 |
| 59 | Atomic structure of highly strained BiFeO ₃ thin films. <i>Physical Review Letters</i> , 2012 , 108, 047601 | 7.4 | 89 |
| 58 | Interface control of bulk ferroelectric polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9710-5 | 11.5 | 187 |
| 57 | Highly monodisperse core-shell particles created by solid-state reactions. <i>Nature Materials</i> , 2011 , 10, 710-5 | 27 | 78 |
| 56 | Extension of the benzyl alcohol route to metal sulfides: "nonhydrolytic" thio sol-gel synthesis of ZnS and SnS ₂ . <i>Chemical Communications</i> , 2011 , 47, 5280-2 | 5.8 | 34 |
| 55 | Microwave-assisted solution synthesis of doped LiFePO ₄ with high specific charge and outstanding cycling performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5881 | | 75 |

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|----|---|-------|-----|
| 54 | Template-free co-assembly of preformed Au and TiO ₂ nanoparticles into multicomponent 3D aerogels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16893 | | 67 |
| 53 | Three-dimensional atomic imaging of crystalline nanoparticles. <i>Nature</i> , 2011 , 470, 374-7 | 50.4 | 450 |
| 52 | Microscopic origin of the giant ferroelectric polarization in tetragonal-like BiFeO ₃ . <i>Physical Review Letters</i> , 2011 , 107, 147602 | 7.4 | 248 |
| 51 | Vacancy growth and migration dynamics in atomically thin hexagonal boron nitride under electron beam irradiation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 295-297 | 2.5 | 22 |
| 50 | Interplay between size and crystal structure of molybdenum dioxide nanoparticles--synthesis, growth mechanism, and electrochemical performance. <i>Small</i> , 2011 , 7, 377-87 | 11 | 77 |
| 49 | The structure and behavior of platinum in SnO ₂ -based sensors under working conditions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2841-4 | 16.4 | 87 |
| 48 | Microwave-Assisted Nonaqueous Sol-Gel Chemistry for Highly Concentrated ZnO-Based Magnetic Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1484-1495 | 3.8 | 104 |
| 47 | Impact of substrate material and annealing conditions on the microstructure and chemistry of yttria-stabilized-zirconia thin films. <i>Journal of Power Sources</i> , 2011 , 196, 7372-7382 | 8.9 | 20 |
| 46 | Reversible electric control of exchange bias in a multiferroic field-effect device. <i>Nature Materials</i> , 2010 , 9, 756-61 | 27 | 576 |
| 45 | Above-bandgap voltages from ferroelectric photovoltaic devices. <i>Nature Nanotechnology</i> , 2010 , 5, 143-728.7 | 12.12 | |
| 44 | Hidden magnetic configuration in epitaxial La(1-x)Sr(x)MnO ₃ films. <i>Physical Review Letters</i> , 2010 , 105, 257204 | 7.4 | 95 |
| 43 | Interface ferromagnetism and orbital reconstruction in BiFeO ₃ -La(0.7)Sr(0.3)MnO ₃ heterostructures. <i>Physical Review Letters</i> , 2010 , 105, 027201 | 7.4 | 311 |
| 42 | Stability and dynamics of small molecules trapped on graphene. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 61 |
| 41 | Coupled anion and cation ordering in Sr ₃ RFe ₄ O _{10.5} (R=Y, Ho, Dy) anion-deficient perovskites. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2845-2854 | 3.3 | 10 |
| 40 | Optimization of exit-plane waves restored from HRTEM through-focal series. <i>Ultramicroscopy</i> , 2010 , 110, 151-61 | 3.1 | 13 |
| 39 | Co-operative formation of monolithic tungsten oxide-polybenzylene hybrids via polymerization of benzyl alcohol and study of the catalytic activity of the tungsten oxide nanoparticles. <i>Small</i> , 2010 , 6, 960-6 | 11 | 25 |
| 38 | Atomic-resolution imaging of lithium in Al ₃ Li precipitates. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 35 |
| 37 | Effects of nanocracks on the magnetic and electrical properties of single crystals. <i>Solid State Communications</i> , 2009 , 149, 1543-1548 | 1.6 | 3 |

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|----|--|------|------|
| 36 | Addition of yttrium into HfO ₂ films: Microstructure and electrical properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 503-514 | 2.9 | 34 |
| 35 | Atomic-resolution imaging with a sub-50-pm electron probe. <i>Physical Review Letters</i> , 2009 , 102, 096101 | 7.4 | 375 |
| 34 | Graphene at the edge: stability and dynamics. <i>Science</i> , 2009 , 323, 1705-8 | 33.3 | 1042 |
| 33 | A strain-driven morphotropic phase boundary in BiFeO ₃ . <i>Science</i> , 2009 , 326, 977-80 | 33.3 | 956 |
| 32 | Atomically thin hexagonal boron nitride probed by ultrahigh-resolution transmission electron microscopy. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 407 |
| 31 | Quantitative Li Mapping in Al alloys by Sub-eV Resolution Energy-Filtering Transmission Electron Microscopy (EFTEM) in the Aberration-Corrected, Monochromated TEAM0.5 Instrument. <i>Microscopy and Microanalysis</i> , 2009 , 15, 430-431 | 0.5 | 4 |
| 30 | Background, status and future of the Transmission Electron Aberration-corrected Microscope project. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 3795-808 | 3 | 66 |
| 29 | Monodisperse Al ₃ (LiScZr) core/shell precipitates in Al alloys. <i>Scripta Materialia</i> , 2008 , 58, 529-532 | 5.6 | 51 |
| 28 | Direct imaging of lattice atoms and topological defects in graphene membranes. <i>Nano Letters</i> , 2008 , 8, 3582-6 | 11.5 | 958 |
| 27 | Acoustic vibration modes and electron-lattice coupling in self-assembled silver nanocolumns. <i>Nano Letters</i> , 2008 , 8, 1296-302 | 11.5 | 30 |
| 26 | Superspace Description, Crystal Structures, and Electric Conductivity of the Ba ₄ In ₆ Mg _x O ₁₃ /2 Solid Solutions. <i>Chemistry of Materials</i> , 2008 , 20, 4457-4467 | 9.6 | 17 |
| 25 | Enhancing Total Conductivity of La ₂ NiO ₄ Epitaxial Thin Films by Reducing Thickness. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10982-10987 | 3.8 | 32 |
| 24 | KSm(MoO ₄) ₂ , an incommensurately modulated and partially disordered scheelite-like structure. <i>Acta Crystallographica Section B: Structural Science</i> , 2008 , 64, 160-71 | | 25 |
| 23 | Unusual Strain Accommodation and Conductivity Enhancement by Structure Modulation Variations in Sr ₄ Fe ₆ O ₁₂ Epitaxial Films. <i>Advanced Functional Materials</i> , 2008 , 18, 785-793 | 15.6 | 10 |
| 22 | Relaxation phenomena at the metal-to-insulator transition in La _{0.8} Sr _{0.2} MnO ₃ single crystals. <i>Solid State Communications</i> , 2008 , 148, 340-344 | 1.6 | 10 |
| 21 | Microstructure and high temperature transport properties of high quality epitaxial SrFeO ₃ films. <i>Solid State Ionics</i> , 2008 , 179, 1996-1999 | 3.3 | 12 |
| 20 | Enhanced High-Temperature Electronic Transport Properties in Nanostructured Epitaxial Thin Films of the La _{n+1} Ni _n O _{3n+1} Ruddlesden-Popper Series (n = 1, 2, 3, 4). <i>Chemistry of Materials</i> , 2007 , 19, 4056-4062 | 9.6 | 26 |
| 19 | Evaluation of top, angle, and side cleaned FIB samples for TEM analysis. <i>Microscopy Research and Technique</i> , 2007 , 70, 1060-71 | 2.8 | 31 |

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|----|--|-----|-----|
| 18 | Correlation between structural defects and properties in large LaSrMnO single crystals. <i>Journal of Applied Physics</i> , 2007 , 101, 053502 | 2.5 | 5 |
| 17 | Thickness-dependent transport properties of $\text{Sr}_4\text{Fe}_6\text{O}_{13}$ epitaxial thin films. <i>Solid State Ionics</i> , 2006 , 177, 423-428 | 3.3 | 9 |
| 16 | Stabilization of the cubic phase of HfO_2 by Y addition in films grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2006 , 89, 012902 | 3.4 | 80 |
| 15 | $\text{Sr}_3\text{Fe}_5/4\text{Mo}_3/4\text{O}_{6.9}$, an $n = 2$ RuddlesdenPopper Phase: Synthesis and Properties. <i>Chemistry of Materials</i> , 2006 , 18, 3448-3457 | 9.6 | 16 |
| 14 | $\text{KNd}(\text{MoO}_4)_2$: A New Incommensurate Modulated Structure in the Scheelite Family. <i>Chemistry of Materials</i> , 2006 , 18, 4075-4082 | 9.6 | 45 |
| 13 | Phase transitions in K_3AlF_6 . <i>Journal of Solid State Chemistry</i> , 2006 , 179, 421-428 | 3.3 | 16 |
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| 6 | Chemical solution deposition: a path towards low cost coated conductors. <i>Superconductor Science and Technology</i> , 2004 , 17, 1055-1064 | 3.1 | 117 |
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| 4 | Epitaxial $\text{Sr}_4\text{Fe}_6\text{O}_{13}$ films obtained by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2004 , 262, 334-340 | 1.6 | 7 |
| 3 | Structure of epitaxial $\text{Ca}_2\text{Fe}_2\text{O}_5$ films deposited on different perovskite-type substrates. <i>Journal of Applied Physics</i> , 2004 , 95, 5145-5152 | 2.5 | 21 |
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| 1 | High quality $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films grown by trifluoroacetates metalorganic deposition. <i>Superconductor Science and Technology</i> , 2003 , 16, 45-53 | 3.1 | 54 |

