# Xiao-Qing Pan

## List of Publications by Year in descending order

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|---|---|---|---|
| 548 papers | 36,356 citations | 3525 90 h-index | 4338 173 g-index |
| 564 all docs | 564 docs citations | 564 times ranked | 32396 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Room-temperature ferroelectricity in strained SrTiO3. Nature, 2004, 430, 758-761. | 13.7 | 1,857 |
| 2 | Enhancement of Ferroelectricity in Strained BaTiO3 Thin Films. Science, 2004, 306, 1005-1009. | 6.0 | 1,676 |
| 3 | Observation of conducting filament growth in nanoscale resistive memories. Nature Communications, 2012, 3, 732. | 5.8 | 957 |
| 4 | Adsorbate-mediated strong metalâ€“support interactions in oxide-supported Rh catalysts. Nature Chemistry, 2017, 9, 120-127. | 6.6 | 609 |
| 5 | Robust memristors based on layered two-dimensional materials. Nature Electronics, 2018, 1, 130-136. | 13.1 | 539 |
| 6 | Catalyst Architecture for Stable Single Atom Dispersion Enables Site-Specific Spectroscopic and Reactivity Measurements of CO Adsorbed to Pt Atoms, Oxidized Pt Clusters, and Metallic Pt Clusters on TiO<sub>2</sub>. Journal of the American Chemical Society, 2017, 139, 14150-14165. | 6.6 | 525 |
| 7 | Electrochemical dynamics of nanoscale metallic inclusions in dielectrics. Nature Communications, 2014, 5, 4232. | 5.8 | 511 |
| 8 | Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In<sub>2</sub>Se<sub>3</sub>. Nano Letters, 2018, 18, 1253-1258. | 4.5 | 509 |
| 9 | Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503. | 16.1 | 464 |
| 10 | A Thin Film Approach to Engineering Functionality into Oxides. Journal of the American Ceramic Society, 2008, 91, 2429-2454. | 1.9 | 452 |
| 11 | Spontaneous Vortex Nanodomain Arrays at Ferroelectric Heterointerfaces. Nano Letters, 2011, 11, 828-834. | 4.5 | 419 |
| 12 | Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. Nature Materials, 2010, 9, 309-314. | 13.3 | 407 |
| 13 | Structural evolution of atomically dispersed Pt catalysts dictates reactivity. Nature Materials, 2019, 18, 746-751. | 13.3 | 404 |
| 14 | Freestanding crystalline oxide perovskites down to the monolayer limit. Nature, 2019, 570, 87-90. | 13.7 | 398 |
| 15 | Giant Piezoelectricity on Si for Hyperactive MEMS. Science, 2011, 334, 958-961. | 6.0 | 394 |
| 16 | General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374. | 13.7 | 393 |
| 17 | Tunable intrinsic strain in two-dimensional transition metal electrocatalysts. Science, 2019, 363, 870-874. | 6.0 | 384 |
| 18 | Elastic strain engineering of ferroic oxides. MRS Bulletin, 2014, 39, 118-130. | 1.7 | 379 |

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|---|---|---|---|
| 19 | Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 9046-9050. | 6.6 | 379 |
| 20 | In situ epitaxial MgB2 thin films for superconducting electronics. Nature Materials, 2002, 1, 35-38. | 13.3 | 376 |
| 21 | Substitution-induced phase transition and enhanced multiferroic properties of Bi1â^'xLaxFeO3 ceramics. Applied Physics Letters, 2006, 88, 162901. | 1.5 | 348 |
| 22 | Optical band gap of BiFeO3 grown by molecular-beam epitaxy. Applied Physics Letters, 2008, 92, . | 1.5 | 345 |
| 23 | Domain Dynamics During Ferroelectric Switching. Science, 2011, 334, 968-971. | 6.0 | 320 |
| 24 | Atomically engineering activation sites onto metallic 1T-MoS2 catalysts for enhanced electrochemical hydrogen evolution. Nature Communications, 2019, 10, 982. | 5.8 | 311 |
| 25 | Controlled Synthesis of Lead-Free and Stable Perovskite Derivative Cs<sub>2</sub>SnI<sub>6</sub> Nanocrystals via a Facile Hot-Injection Process. Chemistry of Materials, 2016, 28, 8132-8140. | 3.2 | 310 |
| 26 | Highly active and stable stepped Cu surface for enhanced electrochemical CO2 reduction to C2H4. Nature Catalysis, 2020, 3, 804-812. | 16.1 | 298 |
| 27 | Probing Nanoscale Ferroelectricity by Ultraviolet Raman Spectroscopy. Science, 2006, 313, 1614-1616. | 6.0 | 295 |
| 28 | Fully Transparent Thin-Film Transistor Devices Based on SnO2Nanowires. Nano Letters, 2007, 7, 2463-2469. | 4.5 | 285 |
| 29 | Very high upper critical fields in MgB2produced by selective tuning of impurity scattering. Superconductor Science and Technology, 2004, 17, 278-286. | 1.8 | 281 |
| 30 | Rational Design of Grapheneâ€Supported Single Atom Catalysts for Hydrogen Evolution Reaction. Advanced Energy Materials, 2019, 9, 1803689. | 10.2 | 279 |
| 31 | Domain Engineering for Enhanced Ferroelectric Properties of Epitaxial (001) BiFeO Thin Films. Advanced Materials, 2009, 21, 817-823. | 11.1 | 277 |
| 32 | ZnO/CuO Heterojunction Branched Nanowires for Photoelectrochemical Hydrogen Generation. ACS Nano, 2013, 7, 11112-11120. | 7.3 | 275 |
| 33 | Polar metals by geometric design. Nature, 2016, 533, 68-72. | 13.7 | 262 |
| 34 | 2D metalâ€“organic framework for stable perovskite solar cells with minimized lead leakage. Nature Nanotechnology, 2020, 15, 934-940. | 15.6 | 258 |
| 35 | Experimental evidence of ferroelectric negative capacitance in nanoscale heterostructures. Applied Physics Letters, 2011, 99, . | 1.5 | 256 |
| 36 | High Activity Carbide Supported Catalysts for Water Gas Shift. Journal of the American Chemical Society, 2011, 133, 2378-2381. | 6.6 | 251 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Synthesis and ferroelectric properties of epitaxial BiFeO3 thin films grown by sputtering. Applied Physics Letters, 2006, 88, 242904. | 1.5 | 250 |
| 38 | Ferroelectricity in Strain-Free<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Thin Films. Physical Review Letters, 2010, 104, 197601. | 2.9 | 233 |
| 39 | Dynamical Observation and Detailed Description of Catalysts under Strong Metalâ€“Support Interaction. Nano Letters, 2016, 16, 4528-4534. | 4.5 | 230 |
| 40 | Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907. | 3.3 | 229 |
| 41 | Stability-limiting heterointerfaces of perovskite photovoltaics. Nature, 2022, 605, 268-273. | 13.7 | 229 |
| 42 | Strain-Induced Polarization Rotation in Epitaxial (001)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Thin Films. Physical Review Letters, 2008, 101, 107602. | 2.9 | 221 |
| 43 | Tailoring a two-dimensional electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (001) interface by epitaxial strain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4720-4724. | 3.3 | 218 |
| 44 | Revealing the role of defects in ferroelectric switching with atomic resolution. Nature Communications, 2011, 2, 591. | 5.8 | 214 |
| 45 | Highâ€Mobility Multilayered MoS<sub>2</sub> Flakes with Low Contact Resistance Grown by Chemical Vapor Deposition. Advanced Materials, 2017, 29, 1604540. | 11.1 | 214 |
| 46 | Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. Science, 2011, 331, 886-889. | 6.0 | 212 |
| 47 | Microstructural, Optical, and Electrical Properties of SnO Thin Films Prepared on Quartz via a Two-Step Method. ACS Applied Materials & Interfaces, 2010, 2, 1060-1065. | 4.0 | 206 |
| 48 | Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. Nano Energy, 2019, 61, 60-68. | 8.2 | 192 |
| 49 | Rh single atoms on TiO2 dynamically respond to reaction conditions by adapting their site. Nature Communications, 2019, 10, 4488. | 5.8 | 191 |
| 50 | Interplay of Spin-Orbit Interactions, Dimensionality, and Octahedral Rotations in Semimetallic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mtext mathvariant="bold">SrIrO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2015, 114, 016401. | 2.9 | 189 |
| 51 | High-Performance Transparent Conducting Oxide Nanowires. Nano Letters, 2006, 6, 2909-2915. | 4.5 | 186 |
| 52 | Quantitative and Atomic-Scale View of CO-Induced Pt Nanoparticle Surface Reconstruction at Saturation Coverage via DFT Calculations Coupled with in Situ TEM and IR. Journal of the American Chemical Society, 2017, 139, 4551-4558. | 6.6 | 186 |
| 53 | Template engineering of Co-doped BaFe2As2 single-crystal thin films. Nature Materials, 2010, 9, 397-402. | 13.3 | 185 |
| 54 | Oxide nano-engineering using MBE. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 87, 282-291. | 1.7 | 182 |

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|---|---|---|---|
| 55 | Uniformity Is Key in Defining Structureâ€“Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO<sub>2</sub>. Journal of the American Chemical Society, 2020, 142, 169-184. | 6.6 | 170 |
| 56 | Anisotropic and hierarchical SiC@SiO <sub>2</sub> nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. Science Advances, 2020, 6, eaay6689. | 4.7 | 164 |
| 57 | Weak-link behavior of grain boundaries in superconducting Ba(Fe1â^'xCox)2As2 bicrystals. Applied Physics Letters, 2009, 95, . | 1.5 | 163 |
| 58 | High-order superlattices by rolling up van der Waals heterostructures. Nature, 2021, 591, 385-390. | 13.7 | 163 |
| 59 | Creation of a two-dimensional electron gas at an oxide interface on silicon. Nature Communications, 2010, 1, 94. | 5.8 | 160 |
| 60 | Epitaxial growth of the first five members of the Srn+1TinO3n+1 Ruddlesdenâ€“Popper homologous series. Applied Physics Letters, 2001, 78, 3292-3294. | 1.5 | 159 |
| 61 | Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. Nature Communications, 2013, 4, . | 5.8 | 152 |
| 62 | Microstructure, optical, and electrical properties of p-type SnO thin films. Applied Physics Letters, 2010, 96, . | 1.5 | 149 |
| 63 | Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. ACS Catalysis, 2019, 9, 5929-5934. | 5.5 | 149 |
| 64 | Grain Boundary Films in Rareâ€Earthâ€Glassâ€Based Silicon Nitride. Journal of the American Ceramic Society, 1996, 79, 788-792. | 1.9 | 142 |
| 65 | Resistance switching in polycrystalline BiFeO3 thin films. Applied Physics Letters, 2010, 97, . | 1.5 | 139 |
| 66 | Ferroelastic domain switching dynamics under electrical and mechanical excitations. Nature Communications, 2014, 5, 3801. | 5.8 | 135 |
| 67 | Abrupt PbTiO3/SrTiO3 superlattices grown by reactive molecular beam epitaxy. Applied Physics Letters, 1999, 74, 2851-2853. | 1.5 | 133 |
| 68 | Oxidation and phase transitions of epitaxial tin oxide thin films on (1Ì„012) sapphire. Journal of Applied Physics, 2001, 89, 6048-6055. | 1.1 | 130 |
| 69 | Real-space charge-density imaging with sub-Ã¥ngstrÃ¶m resolution by four-dimensional electron microscopy. Nature, 2019, 575, 480-484. | 13.7 | 127 |
| 70 | Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. ACS Catalysis, 2017, 7, 4372-4380. | 5.5 | 124 |
| 71 | Evolution of dislocation arrays in epitaxial BaTiO3 thin films grown on (100) SrTiO3. Applied Physics Letters, 2004, 84, 3298-3300. | 1.5 | 121 |
| 72 | Enhancement of Ferroelectric Polarization Stability by Interface Engineering. Advanced Materials, 2012, 24, 1209-1216. | 11.1 | 118 |

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|---|---|---|---|
| 73 | Silicon nitride crystal structure and observations of lattice defects. Journal of Materials Science, 1996, 31, 5281-5298. | 1.7 | 117 |
| 74 | Improved Thermal Stability and Methane-Oxidation Activity of Pd/Al<sub>2</sub>O<sub>3</sub> Catalysts by Atomic Layer Deposition of ZrO<sub>2</sub>. ACS Catalysis, 2015, 5, 5696-5701. | 5.5 | 117 |
| 75 | Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. Nature Communications, 2019, 10, 440. | 5.8 | 115 |
| 76 | Size effects in ultrathin epitaxial ferroelectric heterostructures. Applied Physics Letters, 2004, 84, 5225-5227. | 1.5 | 112 |
| 77 | Dynamic evolution and reversibility of single-atom Ni(II) active site in 1T-MoS2 electrocatalysts for hydrogen evolution. Nature Communications, 2020, 11, 4114. | 5.8 | 112 |
| 78 | Microstructure and Chemistry of Intergranular Glassy Films in Liquidâ€Phaseâ€Sintered Alumina. Journal of the American Ceramic Society, 1998, 81, 369-379. | 1.9 | 110 |
| 79 | Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. Advanced Materials, 2017, 29, 1702375. | 11.1 | 110 |
| 80 | Large Enhancements of Thermopower and Carrier Mobility in Quantum Dot Engineered Bulk Semiconductors. Journal of the American Chemical Society, 2013, 135, 7486-7495. | 6.6 | 109 |
| 81 | Single particle tunneling spectrum of superconducting Nd1-xSrxNiO2 thin films. Nature Communications, 2020, 11, 6027. | 5.8 | 109 |
| 82 | Single-defect phonons imaged by electron microscopy. Nature, 2021, 589, 65-69. | 13.7 | 108 |
| 83 | MgB2 thin films by hybrid physicalâ€“chemical vapor deposition. Physica C: Superconductivity and Its Applications, 2007, 456, 22-37. | 0.6 | 105 |
| 84 | Dynamic structural evolution of supported palladiumâ€“ceria coreâ€“shell catalysts revealed by in situ electron microscopy. Nature Communications, 2015, 6, 7778. | 5.8 | 105 |
| 85 | Platinumâ€Based Nanowires as Active Catalysts toward Oxygen Reduction Reaction: In Situ Observation of Surfaceâ€Diffusionâ€Assisted, Solidâ€State Oriented Attachment. Advanced Materials, 2017, 29, 1703460. | 11.1 | 102 |
| 86 | In situ atomic-scale observation of oxygen-driven core-shell formation in Pt3Co nanoparticles. Nature Communications, 2017, 8, 204. | 5.8 | 102 |
| 87 | Sizeâ€Dependent Nickelâ€Based Electrocatalysts for Selective CO<sub>2</sub> Reduction. Angewandte Chemie - International Edition, 2020, 59, 18572-18577. | 7.2 | 100 |
| 88 | Bismuth manganite: A multiferroic with a large nonlinear optical response. Physical Review B, 2004, 69, . | 1.1 | 97 |
| 89 | Stacking-mode confined growth of 2H-MoTe2/MoS2 bilayer heterostructures for UVâ€“visâ€“IR photodetectors. Nano Energy, 2018, 49, 200-208. | 8.2 | 96 |
| 90 | Self-Regeneration of Pdâ€“LaFeO<sub>3</sub> Catalysts: New Insight from Atomic-Resolution Electron Microscopy. Journal of the American Chemical Society, 2011, 133, 18090-18093. | 6.6 | 93 |

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|---|---|---|---|
| 91 | PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. Nano Letters, 2019, 19, 5431-5436. | 4.5 | 93 |
| 92 | Twoâ€Ðimensional Semiconductors Grown by Chemical Vapor Transport. Angewandte Chemie - International Edition, 2017, 56, 3611-3615. | 7.2 | 92 |
| 93 | Domain structure of epitaxial SrRuO3 thin films on miscut (001) SrTiO3 substrates. Applied Physics Letters, 1998, 72, 2963-2965. | 1.5 | 91 |
| 94 | Nano-Î±-Al2O3 by liquid-feed flame spray pyrolysis. Nature Materials, 2006, 5, 710-712. | 13.3 | 91 |
| 95 | Adsorption-controlled molecular-beam epitaxial growth of BiFeO3. Applied Physics Letters, 2007, 91, . | 1.5 | 91 |
| 96 | Epitaxial growth and properties of metastable BiMnO3 thin films. Applied Physics Letters, 2004, 84, 91-93. | 1.5 | 90 |
| 97 | Highâ€Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. Advanced Materials, 2017, 29, 1605177. | 11.1 | 90 |
| 98 | Electron ptychographic microscopy for three-dimensional imaging. Nature Communications, 2017, 8, 163. | 5.8 | 89 |
| 99 | Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Znâ€“Air Batteries. Nano Letters, 2021, 21, 4508-4515. | 4.5 | 89 |
| 100 | Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 3336-3345. | 5.2 | 88 |
| 101 | Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. Nature Communications, 2018, 9, 1011. | 5.8 | 87 |
| 102 | Reversible precipitation/dissolution of precious-metal clusters in perovskite-based catalyst materials: Bulk versus surface re-dispersion. Journal of Catalysis, 2012, 293, 145-148. | 3.1 | 86 |
| 103 | Synthesis and properties of c-axis oriented epitaxial MgB2 thin films. Applied Physics Letters, 2002, 81, 1851-1853. | 1.5 | 85 |
| 104 | Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO<sub>3</sub> Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2018, 140, 4841-4848. | 6.6 | 85 |
| 105 | Absence of low-temperature phase transitions in epitaxialBaTiO3thin films. Physical Review B, 2004, 69, . | 1.1 | 84 |
| 106 | Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO<sub>3</sub> Films. Advanced Materials, 2013, 25, 5561-5567. | 11.1 | 84 |
| 107 | Neighboring Pt Atom Sites in an Ultrathin FePt Nanosheet for the Efficient and Highly CO-Tolerant Oxygen Reduction Reaction. Nano Letters, 2018, 18, 5905-5912. | 4.5 | 84 |
| 108 | Epitaxial SnO2 thin films grown on (1Ì„012) sapphire by femtosecond pulsed laser deposition. Journal of Applied Physics, 2002, 91, 1060-1065. | 1.1 | 83 |

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|---|---|---|---|
| 109 | Nanoparticle generation in ultrafast pulsed laser ablation of nickel. Applied Physics Letters, 2007, 90, 044103. | 1.5 | 83 |
| 110 | Giant Resistive Switching via Control of Ferroelectric Charged Domain Walls. Advanced Materials, 2016, 28, 6574-6580. | 11.1 | 83 |
| 111 | Effect of alloy composition on dispersion stability and catalytic activity for NO oxidation over alumina-supported Ptâ€“Pd catalysts. Catalysis Letters, 2007, 116, 1-8. | 1.4 | 82 |
| 112 | Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. Matter, 2019, 1, 1567-1580. | 5.0 | 82 |
| 113 | Synthesis of Heteroatom Rhâ€“ReO<sub>x</sub> Atomically Dispersed Species on Al<sub>2</sub>O<sub>3</sub> and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. ACS Catalysis, 2019, 9, 10899-10912. | 5.5 | 81 |
| 114 | Structural evidence for enhanced polarization in a commensurate short-period BaTiO3âˆ•SrTiO3 superlattice. Applied Physics Letters, 2006, 89, 092905. | 1.5 | 80 |
| 115 | Morphology, structure, and nucleation of out-of-phase boundaries (OPBs) in epitaxial films of layered oxides. Journal of Materials Research, 2007, 22, 1439-1471. | 1.2 | 80 |
| 116 | Microstructure and properties of epitaxial antimony-doped p-type ZnO films fabricated by pulsed laser deposition. Applied Physics Letters, 2007, 90, 242108. | 1.5 | 80 |
| 117 | Amphoteric Phosphorus Doping for Stable pâ€Type ZnO. Advanced Materials, 2007, 19, 3333-3337. | 11.1 | 80 |
| 118 | Origin of the metal-insulator transition in ultrathin films of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></<br>mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></m | 1.1 | 80 |
| 119 | Dopant Distribution in Grain-Boundary Films in Calcia-Doped Silicon Nitride Ceramics. Journal of the American Ceramic Society, 1998, 81, 3125-3135. | 1.9 | 79 |
| 120 | High-density switchable skyrmion-like polar nanodomains integrated on silicon. Nature, 2022, 603, 63-67. | 13.7 | 79 |
| 121 | Room-Temperature Polar Ferromagnet ScFeO<sub>3</sub> Transformed from a High-Pressure Orthorhombic Perovskite Phase. Journal of the American Chemical Society, 2014, 136, 15291-15299. | 6.6 | 78 |
| 122 | Hexagonal close-packed Ni nanostructures grown on the (001) surface of MgO. Applied Physics Letters, 2005, 86, 131915. | 1.5 | 76 |
| 123 | Stripe domain structure in epitaxial (001) BiFeO3 thin films on orthorhombic TbScO3 substrate. Applied Physics Letters, 2009, 94, . | 1.5 | 76 |
| 124 | Tin Oxide Thin Films Grown on the (1012) Sapphire Substrate. , 2001, 7, 35-46. | | 75 |
| 125 | Superconducting properties of nanocrystalline MgB2 thin films made by anin situannealing process. Applied Physics Letters, 2001, 79, 1840-1842. | 1.5 | 75 |
| 126 | Effect of crystal defects on the electrical properties in epitaxial tin dioxide thin films. Applied Physics Letters, 2002, 81, 5168-5170. | 1.5 | 75 |

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|---|---|---|---|
| 127 | Critical current density and resistivity of MgB2 films. Applied Physics Letters, 2003, 83, 102-104. | 1.5 | 75 |
| 128 | Perovskite phase stabilization in epitaxial Pb(Mg1/3Nb2/3)O3â€“PbTiO3 films by deposition onto vicinal (001) SrTiO3 substrates. Applied Physics Letters, 2001, 79, 3482-3484. | 1.5 | 74 |
| 129 | Ferroelectric domain structures of epitaxial (001) BiFeO3 thin films. Applied Physics Letters, 2007, 90, 072907. | 1.5 | 73 |
| 130 | A New Y3Al5O12 Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). Advanced Materials, 2005, 17, 830-833. | 11.1 | 72 |
| 131 | Coreâ€“Shell Nanostructured Cobaltâ€“Platinum Electrocatalysts with Enhanced Durability. ACS Catalysis, 2018, 8, 35-42. | 5.5 | 72 |
| 132 | Low-dose phase retrieval of biological specimens using cryo-electron ptychography. Nature Communications, 2020, 11, 2773. | 5.8 | 72 |
| 133 | Aged metastable high-entropy alloys with heterogeneous lamella structure for superior strength-ductility synergy. Acta Materialia, 2020, 199, 602-612. | 3.8 | 72 |
| 134 | Structure, optical, and magnetic properties of sputtered manganese and nitrogen-codoped ZnO films. Applied Physics Letters, 2006, 88, 082111. | 1.5 | 71 |
| 135 | Experimental colitis triggers the release of substance P and calcitonin gene-related peptide in the urinary bladder via TRPV1 signaling pathways. Experimental Neurology, 2010, 225, 262-273. | 2.0 | 71 |
| 136 | Revealing Surface Elemental Composition and Dynamic Processes Involved in Facet-Dependent Oxidation of Pt<sub>3</sub>Co Nanoparticles via in Situ Transmission Electron Microscopy. Nano Letters, 2017, 17, 4683-4688. | 4.5 | 71 |
| 137 | Boosting the activity of Fe-Nx moieties in Fe-N-C electrocatalysts via phosphorus doping for oxygen reduction reaction. Science China Materials, 2020, 63, 965-971. | 3.5 | 71 |
| 138 | Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Matter, 2020, 3, 1774-1790. | 5.0 | 71 |
| 139 | Solid-phase hetero epitaxial growth of Î±-phase formamidinium perovskite. Nature Communications, 2020, 11, 5514. | 5.8 | 71 |
| 140 | Silicon Nitride Based Ceramic Nanocomposites. Journal of the American Ceramic Society, 1996, 79, 585-590. | 1.9 | 70 |
| 141 | Tunable band gap in Bi(Fe1â^'xMnx)O3 films. Applied Physics Letters, 2010, 96, . | 1.5 | 70 |
| 142 | Controlled synthesis of spinel ZnFe2O4 decorated ZnO heterostructures as peroxidase mimetics for enhanced colorimetric biosensing. Chemical Communications, 2013, 49, 7656. | 2.2 | 70 |
| 143 | Artificially engineered superlattices of pnictide superconductors. Nature Materials, 2013, 12, 392-396. | 13.3 | 70 |
| 144 | Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS<sub>2</sub>. Nano Letters, 2018, 18, 3435-3440. | 4.5 | 69 |

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|---|---|---|---|
| 145 | End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO<sub>3</sub> for Solar Water Oxidation. ACS Central Science, 2018, 4, 1166-1172. | 5.3 | 69 |
| 146 | Adsorption-controlled growth of Bi4Ti3O12 by reactive MBE. Applied Physics Letters, 1998, 72, 2817-2819. | 1.5 | 68 |
| 147 | Flux pinning enhancement in ferromagnetic and superconducting thin-film multilayers. Applied Physics Letters, 2003, 82, 778-780. | 1.5 | 68 |
| 148 | Epitaxial nanocrystalline tin dioxide thin films grown on (0001) sapphire by femtosecond pulsed laser deposition. Applied Physics Letters, 2001, 79, 614-616. | 1.5 | 67 |
| 149 | Chiral molecular intercalation superlattices. Nature, 2022, 606, 902-908. | 13.7 | 67 |
| 150 | Strong vortex pinning in Co-doped BaFe2As2 single crystal thin films. Applied Physics Letters, 2010, 96, . | 1.5 | 66 |
| 151 | Electronic Properties of Isosymmetric Phase Boundaries in Highly Strained Caâ€Doped BiFeO<sub>3</sub>. Advanced Materials, 2014, 26, 4376-4380. | 11.1 | 66 |
| 152 | Transmission electron microscopy study of n= 1â€“5 Sr<sub>n+1</sub>Ti<sub>n</sub>O<sub>3n+1</sub> epitaxial thin films. Journal of Materials Research, 2001, 16, 2013-2026. | 1.2 | 65 |
| 153 | Liquid-Feed Flame Spray Pyrolysis as a Method of Producing Mixed-Metal Oxide Nanopowders of Potential Interest as Catalytic Materials. Nanopowders along the NiOâ^'Al2O3Tie Line Including (NiO)0.22(Al2O3)0.78, a New Inverse Spinel Composition. Chemistry of Materials, 2006, 18, 731-739. | 3.2 | 65 |
| 154 | Epitaxial growth and magnetic properties of the first five members of the layered Srn+1RunO3n+1 oxide series. Applied Physics Letters, 2007, 90, 022507. | 1.5 | 65 |
| 155 | Critical thickness of high structural quality SrTiO3 films grown on orthorhombic (101) DyScO3. Journal of Applied Physics, 2008, 104, . | 1.1 | 61 |
| 156 | Study of defect-dipoles in an epitaxial ferroelectric thin film. Applied Physics Letters, 2010, 96, . | 1.5 | 61 |
| 157 | Atomic Scale Structure Changes Induced by Charged Domain Walls in Ferroelectric Materials. Nano Letters, 2013, 13, 5218-5223. | 4.5 | 59 |
| 158 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Domain Wall Energies and Structures: A Combined Experimental and Density Functional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mtext mathvariant="normal">Theory</mml:mtext><mml:mo mathvariant="bold">+</mml:mo><mml:mi mathvariant="bold">U</mml:mi></mml:math>Study. Physical Review Letters, 2013, 110, 267601. | 2.9 | 59 |
| 159 | Strong electrostatic adsorption approach to the synthesis of sub-three nanometer intermetallic platinumâ€“cobalt oxygen reduction catalysts. Nano Energy, 2021, 79, 105465. | 8.2 | 59 |
| 160 | Investigating the Nature of the Active Sites for the CO<sub>2</sub> Reduction Reaction on Carbon-Based Electrocatalysts. ACS Catalysis, 2019, 9, 7668-7678. | 5.5 | 58 |
| 161 | Pt3Ag alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. Nano Research, 2020, 13, 1472-1478. | 5.8 | 58 |
| 162 | Highly Durable and Selective Fe- and Mo-Based Atomically Dispersed Electrocatalysts for Nitrate Reduction to Ammonia via Distinct and Synergized NO<sub>2</sub><sup>â€“</sup> Pathways. ACS Catalysis, 2022, 12, 6651-6662. | 5.5 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Epitaxial La-doped SrTiO3 on silicon: A conductive template for epitaxial ferroelectrics on silicon. Applied Physics Letters, 2002, 80, 4801-4803. | 1.5 | 56 |
| 164 | Direct Observations of Retention Failure in Ferroelectric Memories. Advanced Materials, 2012, 24, 1106-1110. | 11.1 | 56 |
| 165 | High-surface-area ceria prepared by ALD on Al2O3 support. Applied Catalysis B: Environmental, 2017, 201, 430-437. | 10.8 | 56 |
| 166 | Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. Nano Energy, 2021, 90, 106488. | 8.2 | 55 |
| 167 | Microstructure of epitaxial SrRuO3 thin films on (001) SrTiO3. Applied Physics Letters, 1998, 72, 909-911. | 1.5 | 54 |
| 168 | Anisotropic polarization-induced conductance at a ferroelectricâ€“insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136. | 15.6 | 53 |
| 169 | Feâ€“Nâ€“C Electrocatalystsâ€™ Durability: Effects of Single Atomsâ€™ Mobility and Clustering. ACS Catalysis, 2021, 11, 484-494. | 5.5 | 53 |
| 170 | Defect-Induced Hedgehog Polarization States in Multiferroics. Physical Review Letters, 2018, 120, 137602. | 2.9 | 52 |
| 171 | In Situ Observation of Rh-CaTiO<sub>3</sub> Catalysts during Reduction and Oxidation Treatments by Transmission Electron Microscopy. ACS Catalysis, 2017, 7, 1579-1582. | 5.5 | 51 |
| 172 | Electronic structure of ferromagnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrGeTe</mml:mi><mml:mn>3</mml:mn></mml:msub></ by angle-resolved photoemission spectroscopy. Physical Review B, 2018, 98, . | 1.1 | 51 |
| 173 | Strong Electronic Interaction of Amorphous Fe<sub>2</sub>O<sub>3</sub> Nanosheets with Singleâ€Atom Pt toward Enhanced Carbon Monoxide Oxidation. Advanced Functional Materials, 2019, 29, 1904278. | 7.8 | 51 |
| 174 | Real-time studies of ferroelectric domain switching: a review. Reports on Progress in Physics, 2019, 82, 126502. | 8.1 | 51 |
| 175 | Selective Methanol Carbonylation to Acetic Acid on Heterogeneous Atomically Dispersed ReO<sub>4</sub>/SiO<sub>2</sub> Catalysts. Journal of the American Chemical Society, 2020, 142, 14178-14189. | 6.6 | 51 |
| 176 | Compressed Intermetallic PdCu for Enhanced Electrocatalysis. ACS Energy Letters, 2020, 5, 3672-3680. | 8.8 | 50 |
| 177 | Liquid-Feed Flame Spray Pyrolysis of Nanopowders in the Aluminaâ€“Titania System. Chemistry of Materials, 2004, 16, 2336-2343. | 3.2 | 49 |
| 178 | Growth of nanoscale BaTiO<sub>3</sub>/SrTiO<sub>3</sub> superlattices by molecular-beam epitaxy. Journal of Materials Research, 2008, 23, 1417-1432. | 1.2 | 49 |
| 179 | Directly Probing the Local Coordination, Charge State, and Stability of Single Atom Catalysts by Advanced Electron Microscopy: A Review. Small, 2021, 17, e2006482. | 5.2 | 49 |
| 180 | Electrical and optical properties of phosphorus-doped p-type ZnO films grown by metalorganic chemical vapor deposition. Journal of Applied Physics, 2008, 103, 023708. | 1.1 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Strain-Induced Corrosion Kinetics at Nanoscale Are Revealed in Liquid: Enabling Control of Corrosion Dynamics of Electrocatalysis. CheM, 2020, 6, 2257-2271. | 5.8 | 48 |
| 182 | pâ€Si/SnO<sub>2</sub>/Fe<sub>2</sub>O<sub>3</sub> Core/Shell/Shell Nanowire Photocathodes for Neutral pH Water Splitting. Advanced Functional Materials, 2015, 25, 2609-2615. | 7.8 | 47 |
| 183 | Giant Ferroelectric Polarization in Ultrathin Ferroelectrics via Boundaryâ€Condition Engineering. Advanced Materials, 2017, 29, 1701475. | 11.1 | 47 |
| 184 | Experimental observation of localized interfacial phonon modes. Nature Communications, 2021, 12, 6901. | 5.8 | 46 |
| 185 | Probing domain microstructure in ferroelectric Bi4Ti3O12 thin films by optical second harmonic generation. Journal of Applied Physics, 2001, 89, 1387-1392. | 1.1 | 45 |
| 186 | Ferromagnetism in inhomogeneous Zn1â^'xCoxO thin films. Journal of Applied Physics, 2006, 100, 063910. | 1.1 | 44 |
| 187 | Enhancing thermopower and hole mobility in bulk p-type half-Heuslers using full-Heusler nanostructures. Nanoscale, 2013, 5, 9419. | 2.8 | 44 |
| 188 | Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. Scientific Reports, 2019, 9, 3919. | 1.6 | 44 |
| 189 | Grain-Boundary Microstructure and Chemistry of a Hot Isostatically Pressed High-Purity Silicon Nitride. Journal of the American Ceramic Society, 1996, 79, 2313-2320. | 1.9 | 43 |
| 190 | Microstructure and growth mechanism of epitaxial SrRuO3 thin films on (001) LaAlO3 substrates. Journal of Applied Physics, 2001, 89, 6365-6369. | 1.1 | 43 |
| 191 | Atomic-Scale Mechanisms of Defect-Induced Retention Failure in Ferroelectrics. Nano Letters, 2017, 17, 3556-3562. | 4.5 | 43 |
| 192 | Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO<sub>3</sub>/Fe<sub>3</sub>O<sub>4</sub> Heterostructure. ACS Nano, 2018, 12, 9558-9567. | 7.3 | 43 |
| 193 | Laserâ€Irradiated Holey Grapheneâ€Supported Singleâ€Atom Catalyst towards Hydrogen Evolution and Oxygen Reduction. Advanced Energy Materials, 2021, 11, 2101619. | 10.2 | 43 |
| 194 | Self-assembled oxide nanopillars in epitaxial BaFe2As2 thin films for vortex pinning. Applied Physics Letters, 2011, 98, . | 1.5 | 42 |
| 195 | Robust topological surface state in Kondo insulator SmB<sub>6</sub> thin films. Applied Physics Letters, 2014, 105, 222403. | 1.5 | 42 |
| 196 | Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. Nano Letters, 2018, 18, 7004-7013. | 4.5 | 42 |
| 197 | Highly Uniform Resistive Switching in HfO<sub>2</sub> Films Embedded with Ordered Metal Nanoisland Arrays. Advanced Functional Materials, 2019, 29, 1808430. | 7.8 | 42 |
| 198 | Manipulating magnetoelectric energy landscape in multiferroics. Nature Communications, 2020, 11, 2836. | 5.8 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | ZnO epitaxy on (111) Si using epitaxial Lu2O3 buffer layers. Applied Physics Letters, 2008, 92, . | 1.5 | 41 |
| 200 | Promotion of Ternary Ptâ€“Snâ€“Ag Catalysts toward Ethanol Oxidation Reaction: Revealing Electronic and Structural Effects of Additive Metals. ACS Energy Letters, 2018, 3, 2550-2557. | 8.8 | 41 |
| 201 | Large Negative-Thermal-Quenching Effect in Phonon-Induced Light Emissions in Mn<sup>4+</sup>-Activated Fluoride Phosphor for Warm-White Light-Emitting Diodes. ACS Omega, 2018, 3, 13704-13710. | 1.6 | 41 |
| 202 | Combining In-Situ Transmission Electron Microscopy and Infrared Spectroscopy for Understanding Dynamic and Atomic-Scale Features of Supported Metal Catalysts. Journal of Physical Chemistry C, 2018, 122, 25143-25157. | 1.5 | 41 |
| 203 | Giant Uniaxial Strain Ferroelectric Domain Tuning in Freestanding PbTiO<sub>3</sub> Films. Advanced Materials Interfaces, 2020, 7, 1901604. | 1.9 | 41 |
| 204 | Probing the dynamics of nanoparticle formation from a precursor at atomic resolution. Science Advances, 2019, 5, eaau9590. | 4.7 | 40 |
| 205 | Activating a Two-Dimensional PtSe<sub>2</sub> Basal Plane for the Hydrogen Evolution Reaction through the Simultaneous Generation of Atomic Vacancies and Pt Clusters. Nano Letters, 2021, 21, 3857-3863. | 4.5 | 40 |
| 206 | Influence of symmetry mismatch on heteroepitaxial growth of perovskite thin films. Applied Physics Letters, 2008, 93, . | 1.5 | 39 |
| 207 | Intrinsic Conductance of Domain Walls in BiFeO<sub>3</sub>. Advanced Materials, 2019, 31, e1902099. | 11.1 | 39 |
| 208 | Epitaxial ZnO films on (111) Si substrates with Sc2O3 buffer layers. Applied Physics Letters, 2009, 94, . | 1.5 | 38 |
| 209 | Alumina supported Ptâ€“Mo2C catalysts for the waterâ€“gas shift reaction. Journal of Catalysis, 2013, 304, 92-99. | 3.1 | 38 |
| 210 | Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. Nature, 2019, 570, 344-348. | 13.7 | 38 |
| 211 | Vacancy-mediated diffusion of carbon in cobalt and its influence on CO activation. Physical Chemistry Chemical Physics, 2010, 12, 7848. | 1.3 | 37 |
| 212 | Deconvolution of octahedral Pt3Ni nanoparticle growth pathway from in situ characterizations. Nature Communications, 2018, 9, 4485. | 5.8 | 37 |
| 213 | Ferroelectricity in a semiconducting all-inorganic halide perovskite. Science Advances, 2022, 8, eabj5881. | 4.7 | 37 |
| 214 | Structural and thermoelectric properties of Bi2Sr2Co2Oy thin films on LaAlO3 (100) and fused silica substrates. Applied Physics Letters, 2009, 94, 022110. | 1.5 | 36 |
| 215 | Revealing particle growth mechanisms by combining high-surface-area catalysts made with monodisperse particles and electron microscopy conducted at atmospheric pressure. Journal of Catalysis, 2016, 337, 240-247. | 3.1 | 36 |
| 216 | Tuning Electronic Structure and Lattice Diffusion Barrier of Ternary Ptâ€“Inâ€“Ni for Both Improved Activity and Stability Properties in Oxygen Reduction Electrocatalysis. ACS Catalysis, 2019, 9, 11431-11437. | 5.5 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | The grain boundary mobility tensor. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4533-4538. | 3.3 | 36 |
| 218 | Nucleation and Annihilation of Discommensurations in the First-Order Commensurate-Incommensurate Phase Transition in K2ZnCl4. Journal of the Physical Society of Japan, 1990, 59, 1079-1092. | 0.7 | 35 |
| 219 | Direct observation of elemental fluctuation and oxygen octahedral distortion-dependent charge distribution in high entropy oxides. Nature Communications, 2022, 13, 2358. | 5.8 | 35 |
| 220 | In situ TEM observation of the structural transformation of rutile TiO<sub>2</sub>nanowire during electrochemical lithiation. Chemical Communications, 2014, 50, 9932. | 2.2 | 34 |
| 221 | High-surface-area, iron-oxide films prepared by atomic layer deposition on Î³-Al2O3. Applied Catalysis A: General, 2017, 534, 70-77. | 2.2 | 34 |
| 222 | Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. Nature Communications, 2018, 9, 2965. | 5.8 | 34 |
| 223 | Nanoscale imaging of phonon dynamics by electron microscopy. Nature, 2022, 606, 292-297. | 13.7 | 34 |
| 224 | Interfacial structure of epitaxial MgB2 thin films grown on (0001) sapphire. Applied Physics Letters, 2002, 81, 685-687. | 1.5 | 33 |
| 225 | Microstructure and crystal defects in epitaxial ZnO film grown on Ga modified (0001) sapphire surface. Applied Physics Letters, 2004, 85, 4385. | 1.5 | 33 |
| 226 | Epitaxial Magnetic Perovskite Nanostructures. Advanced Materials, 2005, 17, 2869-2872. | 11.1 | 33 |
| 227 | Acoustic Bragg mirrors and cavities made using piezoelectric oxides. Applied Physics Letters, 2007, 90, 042909. | 1.5 | 33 |
| 228 | Growth twins in nanocrystalline SnO2thin films by highâ€resolution transmission electron microscopy. Journal of Applied Physics, 1996, 79, 7688-7694. | 1.1 | 32 |
| 229 | Structural evolution of dislocation half-loops in epitaxial BaTiO3 thin films during high-temperature annealing. Applied Physics Letters, 2004, 85, 1967-1969. | 1.5 | 32 |
| 230 | Electron carrier concentration dependent magnetization and transport properties in ZnO:Co diluted magnetic semiconductor thin films. Journal of Applied Physics, 2008, 104, . | 1.1 | 32 |
| 231 | Optical properties of antimony-doped p-type ZnO films fabricated by pulsed laser deposition. Journal of Applied Physics, 2009, 105, . | 1.1 | 32 |
| 232 | TEM Investigations of Spinel-forming Solid State Reactions: Mechanism, film orientation, and interface structure during MgAl2O4 formation on MgO (001) and Al2O3 (11.2) single crystal substrates. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 1658-1666. | 0.6 | 31 |
| 233 | Effects of miscut of the SrTiO3 substrate on microstructures of the epitaxial SrRuO3 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 152-157. | 1.7 | 31 |
| 234 | Structureâ€“property relationship of nanocrystalline tin dioxide thin films grown on (1ì„012) sapphire. Journal of Applied Physics, 2001, 89, 6056-6061. | 1.1 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Interface structure and strain relaxation in BaTiO3 thin films grown on GdScO3 and DyScO3 substrates with buried coherent SrRuO3 layer. Applied Physics Letters, 2007, 91, . | 1.5 | 31 |
| 236 | Growth of ZnO nanoparticles and nanorods with ultrafast pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2008, 93, 813-818. | 1.1 | 31 |
| 237 | Characterization of alumina-supported Pt and Ptâ€“Pd NO oxidation catalysts with advanced electron microscopy. Journal of Catalysis, 2011, 280, 125-136. | 3.1 | 31 |
| 238 | Waterâ€Free Titaniaâ€“Bronze Thin Films with Superfast Lithiumâ€Ion Transport. Advanced Materials, 2014, 26, 7365-7370. | 11.1 | 31 |
| 239 | Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. Advanced Materials, 2018, 30, e1802737. | 11.1 | 31 |
| 240 | Impact of Heat Treatment on the Electrochemical Properties of Carbon-Supported Octahedral Ptâ€“Ni Nanoparticles. ACS Catalysis, 2019, 9, 11189-11198. | 5.5 | 31 |
| 241 | Nitride film deposition by femtosecond and nanosecond laser ablation in low-pressure nitrogen discharge gas. Applied Surface Science, 2000, 154-155, 165-171. | 3.1 | 30 |
| 242 | Partial encapsulation of Pd particles by reduced ceria-zirconia. Applied Physics Letters, 2005, 87, 201915. | 1.5 | 30 |
| 243 | Oxidation-Induced Atom Diffusion and Surface Restructuring in Faceted Ternary Ptâ€“Cuâ€“Ni Nanoparticles. Chemistry of Materials, 2019, 31, 1720-1728. | 3.2 | 30 |
| 244 | Sizeâ€Dependent Nickelâ€Based Electrocatalysts for Selective CO<sub>2</sub> Reduction. Angewandte Chemie, 2020, 132, 18731-18736. | 1.6 | 30 |
| 245 | Domain structure of epitaxial Bi4Ti3O12 thin films grown on (001) SrTiO3 substrates. Applied Physics Letters, 2003, 83, 2315-2317. | 1.5 | 29 |
| 246 | Polarization-Dependent Raman Spectroscopy of Epitaxial TiO<sub>2</sub>(B) Thin Films. Chemistry of Materials, 2015, 27, 7896-7902. | 3.2 | 29 |
| 247 | Magnetotransport in manganite trilayer junctions grown by 90Â° off-axis sputtering. Applied Physics Letters, 2001, 79, 233-235. | 1.5 | 27 |
| 248 | Quantitative Comparison of Transmission Electron Microscopy Techniques for the Study of Localized Ordering on a Nanoscale. Journal of the American Ceramic Society, 1998, 81, 597-605. | 1.9 | 27 |
| 249 | Origin of suppressed polarization in BiFeO3 films. Applied Physics Letters, 2010, 97, 212904. | 1.5 | 27 |
| 250 | Magnetic and structural properties of BiFeO3 thin films grown epitaxially on SrTiO3/Si substrates. Journal of Applied Physics, 2013, 113, . | 1.1 | 27 |
| 251 | New Atomic-Scale Insight into Self-Regeneration of Pt-CaTiO<sub>3</sub> Catalysts: Incipient Redox-Induced Structures Revealed by a Small-Angle Tilting STEM Technique. Journal of Physical Chemistry C, 2017, 121, 17348-17353. | 1.5 | 27 |
| 252 | Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO<sub>3</sub> Epitaxial Thin Film System. Advanced Electronic Materials, 2018, 4, 1800055. | 2.6 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Hollow Electron Ptychographic Diffractive Imaging. Physical Review Letters, 2018, 121, 146101. | 2.9 | 27 |
| 254 | Spontaneous Solar Syngas Production from CO2 Driven by Energetically Favorable Wastewater Microbial Anodes. Joule, 2020, 4, 2149-2161. | 11.7 | 27 |
| 255 | Observation of Strained PdO in an Aged Pd/Ceria-Zirconia Catalyst. Catalysis Letters, 2002, 79, 99-105. | 1.4 | 26 |
| 256 | In situ growth of MgB/sub 2/ thin films by hybrid physical-chemical vapor deposition. IEEE Transactions on Applied Superconductivity, 2003, 13, 3233-3237. | 1.1 | 26 |
| 257 | In Situ Atomic-Scale Observation of the Two-Dimensional Co(OH)<sub>2</sub> Transition at Atmospheric Pressure. Chemistry of Materials, 2017, 29, 4572-4579. | 3.2 | 26 |
| 258 | Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. Acta Materialia, 2018, 145, 488-495. | 3.8 | 26 |
| 259 | Manipulating Coordination Structures of Mixed-Valence Copper Single Atoms on 1T-MoS<sub>2</sub> for Efficient Hydrogen Evolution. ACS Catalysis, 2022, 12, 7687-7695. | 5.5 | 26 |
| 260 | Thermodynamics and thin film deposition of MgB2superconductors. Superconductor Science and Technology, 2002, 15, 451-457. | 1.8 | 25 |
| 261 | Plasmonic tuning of aluminum doped zinc oxide nanostructures by atomic layer deposition. Physica Status Solidi - Rapid Research Letters, 2014, 8, 948-952. | 1.2 | 25 |
| 262 | Ordered arrays of highly oriented single-crystal semiconductor nanoparticles on silicon substrates. Nanotechnology, 2005, 16, 1892-1898. | 1.3 | 24 |
| 263 | Violet luminescence in phosphorus-doped ZnO epitaxial films. Applied Physics Letters, 2008, 92, 022107. | 1.5 | 24 |
| 264 | ZnO/ZnSe/ZnTe Heterojunctions for ZnTe-Based Solar Cells. Journal of Electronic Materials, 2011, 40, 1674-1678. | 1.0 | 24 |
| 265 | Response of the human detrusor to stretch is regulated by TREKâ€1, a twoâ€poreâ€domain (K<sub>2P</sub>) mechanoâ€gated potassium channel. Journal of Physiology, 2014, 592, 3013-3030. | 1.3 | 24 |
| 266 | Comparison of precious metal doped and impregnated perovskite oxides for TWC application. Catalysis Today, 2015, 258, 535-542. | 2.2 | 24 |
| 267 | Transmission electron microscopy with atomic resolution under atmospheric pressures. MRS Communications, 2017, 7, 798-812. | 0.8 | 24 |
| 268 | Highly crystalline ReSe<sub>2</sub> atomic layers synthesized by chemical vapor transport. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 552-558. | 8.5 | 24 |
| 269 | Magnetostratigraphy of the Kelasu section in the Baicheng depression, Southern Tian Shan, northwestern China. Journal of Asian Earth Sciences, 2015, 111, 492-504. | 1.0 | 23 |
| 270 | Metastable honeycomb SrTiO3/SrIrO3 heterostructures. Applied Physics Letters, 2016, 108, . | 1.5 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Giant Photoresponse in Quantized SrRuO<sub>3</sub> Monolayer at Oxide Interfaces. ACS Photonics, 2018, 5, 1041-1049. | 3.2 | 23 |
| 272 | Visualization and validation of twin nucleation and early-stage growth in magnesium. Nature Communications, 2022, 13, 20. | 5.8 | 23 |
| 273 | Catalysts by pyrolysis: Direct observation of transformations during re-pyrolysis of transition metal-nitrogen-carbon materials leading to state-of-the-art platinum group metal-free electrocatalyst. Materials Today, 2022, 53, 58-70. | 8.3 | 23 |
| 274 | Formation and evolution of epitaxial Co[sub 5]Ge[sub 7] on Ge(001) surface by reactive deposition inside an ultrahigh-vacuum transmission electron microscope. Applied Physics Letters, 2005, 86, 071904. | 1.5 | 22 |
| 275 | Preparation of p-type ZnMgO thin films by Sb doping method. Journal Physics D: Applied Physics, 2007, 40, 4241-4244. | 1.3 | 22 |
| 276 | Enhanced conductivity at orthorhombicâ€“rhombohedral phase boundaries in BiFeO3 thin films. NPG Asia Materials, 2016, 8, e297-e297. | 3.8 | 22 |
| 277 | Synthesis and properties of epitaxial thin films of c-axis oriented metastable four-layered hexagonal BaRuO3. Applied Physics Letters, 2000, 77, 364-366. | 1.5 | 21 |
| 278 | Nature of the two-step temperature-programmed decomposition of PdO supported on alumina. Applied Catalysis A: General, 2014, 475, 420-426. | 2.2 | 21 |
| 279 | Engineering Temperatureâ€Dependent Carrier Concentration in Bulk Composite Materials via Temperatureâ€Dependent Fermi Level Offset. Advanced Energy Materials, 2018, 8, 1701623. | 10.2 | 21 |
| 280 | Probing vacancy behavior across complex oxide heterointerfaces. Science Advances, 2019, 5, eaau8467. | 4.7 | 21 |
| 281 | The effects of stoichiometry on the properties of exsolved <scp>Niâ€Fe</scp> alloy nanoparticles for dry methane reforming. AIChE Journal, 2020, 66, e17078. | 1.8 | 21 |
| 282 | In Situ TEM Studies of Catalysts Using Windowed Gas Cells. Catalysts, 2020, 10, 779. | 1.6 | 21 |
| 283 | Durable hybrid electrocatalysts for proton exchange membrane fuel cells. Nano Energy, 2020, 77, 105192. | 8.2 | 21 |
| 284 | Electron microscopy study of discommensurations in K2ZnCl4. Journal of Physics Condensed Matter, 1990, 2, 323-329. | 0.7 | 20 |
| 285 | Epitaxial thin films of hexagonal BaRuO3 on (001) SrTiO3. Applied Physics Letters, 2001, 78, 329-331. | 1.5 | 20 |
| 286 | Defect generation by preferred nucleation in epitaxial Sr2RuO4/LaAlO3. Applied Physics Letters, 2003, 83, 3891-3893. | 1.5 | 20 |
| 287 | Structural and transport properties of epitaxial NaxCoO2 thin films. Applied Physics Letters, 2005, 87, 172104. | 1.5 | 20 |
| 288 | Combinatorial search of superconductivity in Fe-B composition spreads. APL Materials, 2013, 1, . | 2.2 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Discovery of a magnetic conductive interface in PbZr0.2Ti0.8O3 /SrTiO3 heterostructures. Nature Communications, 2018, 9, 685. | 5.8 | 20 |
| 290 | Transient Growth Bands in Silicon Nitride Cooled in Rareâ€Earthâ€Based Glass. Journal of the American Ceramic Society, 1997, 80, 1397-1404. | 1.9 | 19 |
| 291 | Microstructure and electrical properties of p-type phosphorus-doped ZnO films. Journal Physics D: Applied Physics, 2008, 41, 025103. | 1.3 | 19 |
| 292 | Lack of transient receptor potential vanilloid 1 channel modulates the development of neurogenic bladder dysfunction induced by cross-sensitization in afferent pathways. Journal of Neuroinflammation, 2013, 10, 3. | 3.1 | 19 |
| 293 | Coronavirus-induced demyelination of neural pathways triggers neurogenic bladder overactivity in a mouse model of multiple sclerosis. American Journal of Physiology - Renal Physiology, 2014, 307, F612-F622. | 1.3 | 19 |
| 294 | Enhanced electrical and magnetic properties in La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>thin films deposited on CaTiO<sub>3</sub>-buffered silicon substrates. APL Materials, 2015, 3, 062504. | 2.2 | 19 |
| 295 | Switching the curl of polarization vectors by an irrotational electric field. Physical Review B, 2016, 94, . | 1.1 | 19 |
| 296 | Origin of Rh and Pd agglomeration on the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CeO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2010, 82, . | 1.1 | 18 |
| 297 | Structures and electronic properties of domain walls in BiFeO3 thin films. National Science Review, 2019, 6, 669-683. | 4.6 | 18 |
| 298 | Observation of Strong Polarization Enhancement in Ferroelectric Tunnel Junctions. Nano Letters, 2019, 19, 6812-6818. | 4.5 | 18 |
| 299 | Epitaxial antiperovskite/perovskite heterostructures for materials design. Science Advances, 2020, 6, eaba4017. | 4.7 | 18 |
| 300 | Solar-assisted co-electrolysis of glycerol and water for concurrent production of formic acid and hydrogen. Journal of Materials Chemistry A, 2021, 9, 19975-19983. | 5.2 | 18 |
| 301 | Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. Nature Communications, 2021, 12, 3215. | 5.8 | 18 |
| 302 | A MnO<sub>x</sub> enhanced atomically dispersed ironâ€“nitrogenâ€“carbon catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2022, 10, 5981-5989. | 5.2 | 18 |
| 303 | Structural phase transitions in epitaxial SrRuO3thin films. Philosophical Magazine Letters, 2000, 80, 271-279. | 0.5 | 17 |
| 304 | Correlated structural and magnetization reversal studies on epitaxial Ni films grown with molecular beam epitaxy and with sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1868-1872. | 0.9 | 17 |
| 305 | Negative thermal expansion and electrical properties of Mn3(Cu0.6NbxGe0.4â^'x)N (x=0.05â€“0.25) compounds. Materials Letters, 2008, 62, 2381-2384. | 1.3 | 17 |
| 306 | Lithiation of Rutile TiO<sub>2</sub>-Coated Si NWs Observed by in Situ TEM. Chemistry of Materials, 2015, 27, 6929-6933. | 3.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Unexpected Strong Thermally Induced Phonon Energy Shift for Mapping Local Temperature. Nano Letters, 2019, 19, 7494-7502. | 4.5 | 17 |
| 308 | Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr2Ir2O7 thin films. Physical Review B, 2020, 101, . | 1.1 | 17 |
| 309 | Effective Electrochemical Modulation of SERS Intensity Assisted by Coreâ€“Shell Nanoparticles. Analytical Chemistry, 2021, 93, 4441-4448. | 3.2 | 17 |
| 310 | Atomistic Structure of Silicon Nitride/Silicate Glass Interfaces. Journal of the American Ceramic Society, 1996, 79, 2975-2979. | 1.9 | 16 |
| 311 | Formation and evolution of epitaxial Co5Ge7 film on Ge (001) surface by solid-state reaction in an in situ ultrahigh-vacuum transmission electron microscope. Applied Physics Letters, 2005, 87, 211909. | 1.5 | 16 |
| 312 | Microstructure and transport properties of ZnO:Mn diluted magnetic semiconductor thin films. Journal of Applied Physics, 2009, 105, 053708. | 1.1 | 16 |
| 313 | Differential effects of intravesical resiniferatoxin on excitability of bladder spinal neurons upon colonâ€“bladder cross-sensitization. Brain Research, 2013, 1491, 213-224. | 1.1 | 16 |
| 314 | First-order morphological transition of ferroelastic domains in ferroelectric thin films. Acta Materialia, 2014, 75, 188-197. | 3.8 | 16 |
| 315 | Developed one-pot synthesis of dual-color CdSe quantum dots for white light-emitting diode application. Journal of Materials Chemistry C, 2018, 6, 3089-3096. | 2.7 | 16 |
| 316 | Outbound medical tourists from China: An update on motivations, deterrents, and needs. International Journal of Healthcare Management, 2018, 11, 217-224. | 1.2 | 16 |
| 317 | Control of Epitaxial BaFe<sub>2</sub>As<sub>2</sub> Atomic Configurations with Substrate Surface Terminations. Nano Letters, 2018, 18, 6347-6352. | 4.5 | 16 |
| 318 | Electrophoretic Deposition of Mesoporous Niobium(V)Oxide Nanoscopic Films. Chemistry of Materials, 2018, 30, 6549-6558. | 3.2 | 16 |
| 319 | Engineering of octahedral rotations and electronic structure in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrIrO</mml:mi><mml:mn>3</mml:mn></mml:msub></ films. Physical Review B, 2020, 101, . | 1.1 | 16 |
| 320 | In-plane quasi-single-domain BaTiO3 via interfacial symmetry engineering. Nature Communications, 2021, 12, 6784. | 5.8 | 16 |
| 321 | NiGe on Ge(001) by reactive deposition epitaxy: An in situ ultrahigh-vacuum transmission-electron microscopy study. Applied Physics Letters, 2005, 86, 201908. | 1.5 | 15 |
| 322 | Magnetostratigraphic Construct of Awate Section in the North Tarim Basin: the Impulse Uplift of Tianshan Range. Chinese Journal of Geophysics, 2011, 54, 334-342. | 0.2 | 15 |
| 323 | Creating high quality Ca:TiO<sub>2</sub>-B (CaTi<sub>5</sub>O<sub>11</sub>) and TiO<sub>2</sub>-B epitaxial thin films by pulsed laser deposition. Chemical Communications, 2015, 51, 8584-8587. | 2.2 | 15 |
| 324 | Exsolution of Embedded Niâ€“Feâ€“Co Nanoparticles: Implications for Dry Reforming of Methane. ACS Applied Nano Materials, 2021, 4, 8626-8636. | 2.4 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | High-resolution transmission electron microscopy study of defects and interfaces in epitaxial TiO<sub>2</sub>films on sapphire and LaAlO<sub>3</sub>. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 735-749. | 0.7 | 14 |
| 326 | Aging-Induced Metal Redistribution in Bimetallic Catalysts. Catalysis Letters, 2002, 81, 1-7. | 1.4 | 14 |
| 327 | Size and shape evolution of embedded single-crystal Î±-Fe nanowires. Applied Physics Letters, 2005, 87, 203110. | 1.5 | 14 |
| 328 | Single domain strain relaxed PrScO3 template on miscut substrates. Applied Physics Letters, 2006, 89, 221904. | 1.5 | 14 |
| 329 | Analysis of defect-free GaSb/GaAs(001) quantum dots grown on the Sb-terminated (2â€‰Ã—â€‰8) surface. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, . | 0.6 | 14 |
| 330 | Ferroelectric Polarization-Modulated Interfacial Fine Structures Involving Two-Dimensional Electron Gases in Pb(Zr,Ti)O<sub>3</sub>/LaAlO<sub>3</sub>/SrTiO<sub>3</sub> Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 1374-1382. | 4.0 | 14 |
| 331 | Thickness and defocus dependence of inter-atomic electric fields measured by scanning diffraction. Ultramicroscopy, 2020, 208, 112850. | 0.8 | 14 |
| 332 | Atomic-scale structure of aSrTiO3bicrystal boundary studied by scanning tunneling microscopy. Physical Review B, 1997, 56, 6947-6951. | 1.1 | 13 |
| 333 | Epitaxial growth and dielectric properties of homologous Srmâ^'3Bi4TimO3m+3 (m=3,4,5,6) thin films. Applied Physics Letters, 2002, 81, 5009-5011. | 1.5 | 13 |
| 334 | Structural and electrical properties ofc-axis epitaxial homologous Srmâ^'3Bi4TimO3m+3 (m=3, 4, 5, and) Tj ETQq0 0 0 rgBT /Overlock 10 | 1.1 | 13 |
| 335 | In situ electron microscopy of ferroelectric domains. MRS Bulletin, 2015, 40, 53-61. | 1.7 | 13 |
| 336 | A Joint Theoretical and Experimental Study of Phase Equilibria and Evolution in Pt-Doped Calcium Titanate under Redox Conditions. Chemistry of Materials, 2015, 27, 18-28. | 3.2 | 13 |
| 337 | High-Surface Area Ceria-Zirconia Films Prepared by Atomic Layer Deposition. Catalysis Letters, 2017, 147, 1464-1470. | 1.4 | 13 |
| 338 | Epitaxial thin films of Dirac semimetal antiperovskite Cu3PdN. APL Materials, 2017, 5, . | 2.2 | 13 |
| 339 | Machine Learning Method Reveals Hidden Strong Metalâ€Support Interaction in Microscopy Datasets. Small Methods, 2021, 5, 2100035. | 4.6 | 13 |
| 340 | Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. Science Advances, 2021, 7, eabi6699. | 4.7 | 13 |
| 341 | Giant Thermal Transport Tuning at a Metal/Ferroelectric Interface. Advanced Materials, 2022, 34, e2105778. | 11.1 | 13 |
| 342 | Spin-flip phenomena at the Co\|graphene\|Co interfaces. Applied Physics Letters, 2011, 98, . | 1.5 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Syntectonic emplacement of Late Cretaceous mafic dyke swarms in coastal southeastern China: Insights from magnetic fabrics, rock magnetism and field evidence. Tectonophysics, 2014, 637, 328-340. | 0.9 | 12 |
| 344 | Monodispersed mesoporous silica spheres with various mesopore symmetries. Journal of Colloid and Interface Science, 2014, 418, 61-65. | 5.0 | 12 |
| 345 | Phase field simulation of charged interface formation during ferroelectric switching. Acta Materialia, 2016, 112, 285-294. | 3.8 | 12 |
| 346 | An efficient and reliable growth method for epitaxial complex oxide films by molecular beam epitaxy. Applied Physics Letters, 2017, 111, . | 1.5 | 12 |
| 347 | Mott insulator to metal transition driven by oxygen incorporation in epitaxial LaTiO3 films. Applied Physics Letters, 2019, 115, . | 1.5 | 12 |
| 348 | Crystallographic shear planes in nanocrystalline SnO2 thin films by high-resolution transmission electron microscopy. Journal of Materials Science, 1996, 31, 2317-2324. | 1.7 | 11 |
| 349 | Effects of stress relaxation of epitaxial SrRuO3 thin film on microstructures. Journal of Applied Physics, 1999, 86, 4188-4191. | 1.1 | 11 |
| 350 | Synthesis and properties of p-type nitrogen-doped ZnO thin films by pulsed laser ablation of a Zn-rich Zn<sub>3</sub>N<sub>2</sub> target. Journal of Materials Research, 2007, 22, 2339-2344. | 1.2 | 11 |
| 351 | GaP/GaNP Heterojunctions for Efficient Solarâ€Driven Water Oxidation. Small, 2017, 13, 1603574. | 5.2 | 11 |
| 352 | Boosting phonon-induced luminescence in red fluoride phosphorsviacomposition-driven structural transformations. Journal of Materials Chemistry C, 2017, 5, 12105-12111. | 2.7 | 11 |
| 353 | Optimization of Ptâ€“Oxygen-Containing Species Anodes for Ethanol Oxidation Reaction: High Performance of Pt-AuSnO<sub>x</sub> Electrocatalyst. Journal of Physical Chemistry Letters, 2020, 11, 2846-2853. | 2.1 | 11 |
| 354 | Investigating the Degradation of Nb<sub>2</sub>O<sub>5</sub> Thin Films Across 10,000 Lithiation/Delithiation Cycles. ACS Applied Energy Materials, 2021, 4, 6542-6552. | 2.5 | 11 |
| 355 | Robust palladium hydride catalyst for electrocatalytic formate formation with high CO tolerance. Applied Catalysis B: Environmental, 2022, 316, 121659. | 10.8 | 11 |
| 356 | A study of the relaxation of discommensurations in K2ZnCl4. II. Dielectric measurements at low frequency. Journal of Physics Condensed Matter, 1992, 4, 6899-6908. | 0.7 | 10 |
| 357 | Transmission electron microscopy structure and platinum-like temperature coefficient of resistance in a ruthenate-based thick film resistor with copper oxide. Journal of Applied Physics, 2000, 88, 1124-1128. | 1.1 | 10 |
| 358 | <title>Diagnostics for femtosecond and nanosecond laser-ablation discharge plasmas as used in thin film growth</title>. , 2000, 3935, 86. | | 10 |
| 359 | Microstructure and strain relaxation of epitaxial PrScO3 thin films grown on (001) SrTiO3 substrates. Applied Physics Letters, 2007, 91, . | 1.5 | 10 |
| 360 | Temperature-dependent Hall and photoluminescence evidence for conduction-band edge shift induced by alloying ZnO with magnesium. Applied Physics Letters, 2009, 95, . | 1.5 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Optical properties of ZnO/Zn0.9Mg0.1O multiple quantum wells grown on (111) Si using buffer assisted pulsed-laser deposition. Journal of Applied Physics, 2010, 107, . | 1.1 | 10 |
| 362 | Effect of GaN interlayer on polarity control of epitaxial ZnO thin films grown by molecular beam epitaxy. Applied Physics Letters, 2010, 97, 151908. | 1.5 | 10 |
| 363 | Tuning properties of columnar nanocomposite oxides. Applied Physics Letters, 2013, 103, 043112. | 1.5 | 10 |
| 364 | Surface-termination-dependent Pd bonding and aggregation of nanoparticles on LaFeO3 (001). Journal of Chemical Physics, 2013, 138, 144705. | 1.2 | 10 |
| 365 | High-resolution characterization of multiferroic heterojunction using aberration-corrected scanning transmission electron microscopy. Applied Physics Letters, 2017, 110, . | 1.5 | 10 |
| 366 | Controlling the magic size of white light-emitting CdSe quantum dots. Nanoscale, 2018, 10, 10256-10261. | 2.8 | 10 |
| 367 | Crystallinity after decarboxylation of a metalâ€“carboxylate framework: indestructible porosity for catalysis. Dalton Transactions, 2020, 49, 11902-11910. | 1.6 | 10 |
| 368 | Microstructure of ZnO shell on Zn nanoparticles. Journal of Materials Research, 2004, 19, 3062-3067. | 1.2 | 9 |
| 369 | Interplay Between Grain Boundary Grooving, Stress, and Dealloying in the Agglomeration of NiSi[sub 1â^'x]Ge[sub x] Films. Electrochemical and Solid-State Letters, 2007, 10, H53. | 2.2 | 9 |
| 370 | Three-dimensional ZnO/Si broom-like nanowire heterostructures as photoelectrochemical anodes for solar energy conversion. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2561-2568. | 0.8 | 9 |
| 371 | Epitaxial Al2O3 capacitors for low microwave loss superconducting quantum circuits. APL Materials, 2013, 1, . | 2.2 | 9 |
| 372 | Epitaxial growth of ZnO on (1â€‰1â€‰1) Si free of an amorphous interlayer. Journal Physics D: Applied Physics, 2014, 47, 105302. | 1.3 | 9 |
| 373 | Twoâ€Đimensional Semiconductors Grown by Chemical Vapor Transport. Angewandte Chemie, 2017, 129, 3665-3669. | 1.6 | 9 |
| 374 | Self-Assembled Ferroelectric Nanoarray. ACS Applied Materials & Interfaces, 2019, 11, 2205-2210. | 4.0 | 9 |
| 375 | From ion to atom to dendrite: Formation and nanomechanical behavior of electrodeposited lithium. MRS Bulletin, 2020, 45, 891-904. | 1.7 | 9 |
| 376 | Deposition and Properties of Superconducting MgB2 Thin Films. Journal of Superconductivity and Novel Magnetism, 2003, 16, 801-806. | 0.5 | 8 |
| 377 | Dependence of Epitaxial ${m Ba}{({m Fe}_{1-{m x}}{m Co}_{m x})}_{2}{m As}_{2}$ Thin Films Properties on ${m SrTiO}_{3}$ Template Thickness. IEEE Transactions on Applied Superconductivity, 2011, 21, 2882-2886. | 1.1 | 8 |
| 378 | Mechanisms of InAs/GaAs quantum dot formation during annealing of In islands. Applied Physics Letters, 2013, 103, . | 1.5 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Bladder outlet obstruction triggers neural plasticity in sensory pathways and contributes to impaired sensitivity in erectile dysfunction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R837-R845. | 0.9 | 8 |
| 380 | Stochastic comparisons of weighted sums of arrangement increasing random variables. Statistics and Probability Letters, 2015, 102, 42-50. | 0.4 | 8 |
| 381 | Atomic and electronic structures of superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2015, 91, . | 1.1 | 8 |
| 382 | Development of in situ opticalâ€“electrical MEMS platform for semiconductor characterization. Ultramicroscopy, 2018, 194, 57-63. | 0.8 | 8 |
| 383 | Double-tilt in situ TEM holder with ultra-high stability. Ultramicroscopy, 2018, 192, 1-6. | 0.8 | 8 |
| 384 | Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO<sub>4</sub> Films. Small, 2022, 18, e2107540. | 5.2 | 8 |
| 385 | TEM study of the 1q to 2q transition within the incommensurate phase of barium sodium niobate. Ferroelectrics, 1990, 105, 225-230. | 0.3 | 7 |
| 386 | A study of the relaxation of discommensurations in K2ZnCl4III. Measurements of the complex dielectric constant. Journal of Physics Condensed Matter, 1992, 4, 6909-6918. | 0.7 | 7 |
| 387 | Inter-granular glassy phases in the low-CaO-doped HIPed Si<sub>3</sub>N<sub>4</sub>ceramics: a review. International Journal of Materials Research, 2010, 101, 66-74. | 0.1 | 7 |
| 388 | ON ORDERINGS BETWEEN WEIGHTED SUMS OF RANDOM VARIABLES. Probability in the Engineering and Informational Sciences, 2013, 27, 85-97. | 0.6 | 7 |
| 389 | Some inequalities of linear combinations of independent random variables: II. Bernoulli, 2013, 19, . | 0.7 | 7 |
| 390 | Estrous Cycle Dependent Fluctuations of Regulatory Neuropeptides in the Lower Urinary Tract of Female Rats upon Colon-Bladder Cross-Sensitization. PLoS ONE, 2014, 9, e94872. | 1.1 | 7 |
| 391 | Altered expression and modulation of the two-pore-domain (K2P) mechanogated potassium channel TREK-1 in overactive human detrusor. American Journal of Physiology - Renal Physiology, 2017, 313, F535-F546. | 1.3 | 7 |
| 392 | The Expression of Transcription Factors Mecp2 and CREB Is Modulated in Inflammatory Pelvic Pain. Frontiers in Systems Neuroscience, 2018, 12, 69. | 1.2 | 7 |
| 393 | Acoustic confinement phenomena in oxide multifunctional nanophononic devices. Physical Review Materials, 2018, 2, . | 0.9 | 7 |
| 394 | Probing molecular vibrations by monochromated electron microscopy. Trends in Chemistry, 2022, 4, 76-90. | 4.4 | 7 |
| 395 | Emergence of near-boundary segregation zones in face-centered cubic multiprincipal element alloys. Physical Review Materials, 2021, 5, . | 0.9 | 7 |
| 396 | Microstructure of BaRuO3 thin films grown on (001) SrTiO3. Applied Physics Letters, 2000, 77, 1985-1987. | 1.5 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | Atomic and electronic structures of lattice mismatched Cu2O/TiO2 interfaces. Applied Physics Letters, 2014, 104, 211605. | 1.5 | 6 |
| 398 | Investigation of the stability of Platinum nanoparticles incorporated in mesoporous silica with different pore sizes. Journal of Colloid and Interface Science, 2014, 421, 22-26. | 5.0 | 6 |
| 399 | Controlled In Situ Gas Reaction Studies of Catalysts at High Temperature and Pressure with Atomic Resolution. Microscopy and Microanalysis, 2014, 20, 1572-1573. | 0.2 | 6 |
| 400 | Atomic structure of defects and interfaces in TiO<sub>2</sub>-B and Ca:TiO<sub>2</sub>-B (CaTi<sub>5</sub>O<sub>11</sub>) films grown on SrTiO<sub>3</sub>. CrystEngComm, 2015, 17, 4309-4315. | 1.3 | 6 |
| 401 | A strain-induced new phase diagram and unusually high Curie temperature in manganites. Journal of Materials Chemistry C, 2017, 5, 7813-7819. | 2.7 | 6 |
| 402 | Epitaxial growth of bronze phase titanium dioxide by molecular beam epitaxy. AIP Advances, 2019, 9, . | 0.6 | 6 |
| 403 | Rewritable High-Mobility Electrons in Oxide Heterostructure of Layered Perovskite/Perovskite. ACS Applied Materials & Interfaces, 2021, 13, 7812-7821. | 4.0 | 6 |
| 404 | Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. Npj Quantum Materials, 2021, 6, . | 1.8 | 6 |
| 405 | Structural, optical, magnetic and electrical properties of Zn1âˆ'x Co x O thin films. Journal of Materials Science: Materials in Electronics, 2009, 20, 60-73. | 1.1 | 5 |
| 406 | Spatial distribution of cerium valence in model planar Pd/Ce0.7Zr0.3O2 catalysts. Journal of Catalysis, 2013, 300, 201-204. | 3.1 | 5 |
| 407 | Increasing convex order on generalized aggregation of SAI random variables with applications. Journal of Applied Probability, 2017, 54, 685-700. | 0.4 | 5 |
| 408 | Accordion Strain Accommodation Mechanism within the Epitaxially Constrained Electrode. ACS Energy Letters, 2018, 3, 1848-1853. | 8.8 | 5 |
| 409 | Emergent properties at oxide interfaces controlled by ferroelectric polarization. Npj Computational Materials, 2021, 7, . | 3.5 | 5 |
| 410 | Microstructure and electrical properties of epitaxial SrBi2Nb2O9 And SrBi2Ta2O9 films. Integrated Ferroelectrics, 2001, 33, 27-37. | 0.3 | 4 |
| 411 | Structural and electrical properties ofc-axis epitaxial and polycrystalline Sr3Bi4Ti6O21thin films. Journal of Physics Condensed Matter, 2003, 15, 1223-1233. | 0.7 | 4 |
| 412 | Magnetoresistance of 3d transition metal single-doped and co-doped epitaxial ZnO thin films. Physica B: Condensed Matter, 2009, 404, 1112-1115. | 1.3 | 4 |
| 413 | Low temperature electron transport in phosphorus-doped ZnO films grown on Si substrates. Physica B: Condensed Matter, 2012, 407, 2825-2828. | 1.3 | 4 |
| 414 | High resolution characterization of grain boundaries in Cu2ZnSnSe4 solar cells synthesized by nanoparticle selenization. Solar Energy Materials and Solar Cells, 2016, 157, 171-177. | 3.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 415 | Self-assembling epitaxial growth of a single crystalline CoFe<sub>2</sub>O<sub>4</sub> nanopillar array via dual-target pulsed laser deposition. Journal of Materials Chemistry C, 2018, 6, 4854-4860. | 2.7 | 4 |
| 416 | A study on simultaneous catalytic ozonation of Hg0 and NO using Mnâ€“TiO2 catalyst at low flue gas temperatures. Chemical Papers, 2018, 72, 1347-1361. | 1.0 | 4 |
| 417 | Machine Learning for Challenging EELS and EDS Spectral Decomposition. Microscopy and Microanalysis, 2019, 25, 180-181. | 0.2 | 4 |
| 418 | Improved Electrical Properties of Layer Structured La2Ti1.96V0.04O7 Ceramics. Journal of Electronic Materials, 2020, 49, 2584-2595. | 1.0 | 4 |
| 419 | Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. Microscopy and Microanalysis, 2021, 27, 712-713. | 0.2 | 4 |
| 420 | Preparation and transport properties of Ba1?x Sr x CuO2+? infinite layer films grown by molecular-beam epitaxy. European Physical Journal B, 1995, 96, 305-311. | 0.6 | 3 |
| 421 | Strain-Induced Elevation of the Spontaneous Polarization in BaTiO<sub>3</sub> Thin Films. Materials Research Society Symposia Proceedings, 2000, 655, 416. | 0.1 | 3 |
| 422 | In vacuo Pulsed Laser Ablation of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7â€“x</sub> Target for the Formation of Y<sub>2</sub>O<sub>3</sub> Nanostructures. Journal of Materials Research, 2002, 17, 697-700. | 1.2 | 3 |
| 423 | Ultrafast pulsed laser ablation for synthesis of nanocrystals. , 2007, , . | | 3 |
| 424 | Epitaxial Zn1âˆ’Mg O films grown on (1 1 1) Si by pulsed laser deposition. Chemical Physics Letters, 2010, 485, 363-366. | 1.2 | 3 |
| 425 | Effect of CdSe Nanoparticles on the Growth of Te Nanowires: Greater Length and Tortuosity and Nonmonotonic Concentration Effect. Journal of Physical Chemistry C, 2010, 114, 2428-2433. | 1.5 | 3 |
| 426 | In Situ Observation of the Evolution of Pt Particles in a Perovskite-Based Catalyst During Redox Cycling at High Temperature and Atmospheric Pressure with Atomic Resolution. Microscopy and Microanalysis, 2012, 18, 1120-1121. | 0.2 | 3 |
| 427 | Publisher's Note: Origin of the metal-insulator transition in ultrathin films of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn> Rev. B92, 125123 (2015)]. Physical Review B, 2015, 92, . | 1.7 | 3 |
| 428 | Fast and Low-dose Electron Ptychography. Microscopy and Microanalysis, 2018, 24, 224-225. | 0.2 | 3 |
| 429 | Interface-Guided Formation of 2D Ultrathin MnO<sub>2</sub> Nanosheets with Abundant Oxygen Defects for High Performance Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6962-6969. | 2.5 | 3 |
| 430 | A HREM study on the defects in Yï£¿Baï£¿Cuï£¿O superconductors. Physica Status Solidi A, 1988, 107, 63-72. | 1.7 | 2 |
| 431 | Origin of dislocation loops in Î±-silicon nitride. Journal of Materials Research, 1996, 11, 1725-1732. | 1.2 | 2 |
| 432 | Microscopic structure of SrTiO3 bicrystal boundaries studied with scanning tunneling and atomic force microscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 100-105. | 1.7 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 433 | The Importance of In Situ Monitors in the Preparation of Layered Oxide Heterostructures by Reactive MBE. Materials Research Society Symposia Proceedings, 2000, 619, 105. | 0.1 | 2 |
| 434 | Strain Relaxation by Misfit Dislocations in Nanoscale Epitaxial Ferroelectric BaTiO3 Films Grown on SrTiO3 Substrate. Microscopy and Microanalysis, 2002, 8, 1162-1163. | 0.2 | 2 |
| 435 | Electrical properties of Sr3Bi4Ti6O21 thin films. Applied Physics A: Materials Science and Processing, 2003, 77, 645-647. | 1.1 | 2 |
| 436 | Magma flow inferred from magnetic fabrics in Wanning gabbro pluton and diabase dykes, Hainan. Science Bulletin, 2012, 57, 1982-1989. | 1.7 | 2 |
| 437 | Epitaxial growth of ZnTe on GaSb(100) using in situ ZnCl2 surface clean. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 03C118. | 0.6 | 2 |
| 438 | A perturbation theory study of electron vortices in electromagnetic fields: The case of infinitely long line charge and magnetic dipole. Micron, 2014, 63, 9-14. | 1.1 | 2 |
| 439 | Origins of interlayer formation and misfit dislocation displacement in the vicinity of InAs/GaAs quantum dots. Applied Physics Letters, 2014, 105, 032107. | 1.5 | 2 |
| 440 | Size Effect on Spontaneous Flux-closure Domains in BiFeO 3 Thin Films. Microscopy and Microanalysis, 2016, 22, 1596-1597. | 0.2 | 2 |
| 441 | Tunable, Endotaxial Inclusion of Crystalline Pt-Based Nanoparticles Inside a High-Quality Bronze TiO2 Matrix. Chemistry of Materials, 2017, 29, 2016-2023. | 3.2 | 2 |
| 442 | Interfacial B-site atomic configuration in polar (111) and non-polar (001) SrIrO3/SrTiO3 heterostructures. APL Materials, 2017, 5, . | 2.2 | 2 |
| 443 | In situ Atmospheric Transmission Electron Microscopy of Catalytic Nanomaterials. MRS Advances, 2018, 3, 2297-2303. | 0.5 | 2 |
| 444 | Probing Thermal-induced Phonon Energy Shift of SiC in Nanoscale by in situ Vibrational Spectroscopy. Microscopy and Microanalysis, 2019, 25, 622-623. | 0.2 | 2 |
| 445 | 3D Electron Ptychography. Microscopy and Microanalysis, 2019, 25, 1802-1803. | 0.2 | 2 |
| 446 | Enhanced electrical properties of La1.9Nd0.1Ti2O7 ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 1853-1860. | 1.1 | 2 |
| 447 | Machine Learning: Machine Learning Method Reveals Hidden Strong Metalâ€Support Interaction in Microscopy Datasets (Small Methods 5/2021). Small Methods, 2021, 5, 2170020. | 4.6 | 2 |
| 448 | In Situ Observations of the Dynamics of Pd@Pt Core-Shell Nanoparticles in Electrolyte. Microscopy and Microanalysis, 2021, 27, 234-236. | 0.2 | 2 |
| 449 | Theoretical and experimental study of a novel double-well optical dipole trap for two-species of cold atoms or molecules. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 233701. | 0.2 | 2 |
| 450 | Electronic reconstruction at the polar (111)-oriented oxide interface. APL Materials, 2022, 10, . | 2.2 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 451 | Dynamic evolution of discommensurations during the commensurate-incommensurate transition in barium sodium niobate. Journal of Physics Condensed Matter, 1990, 2, 2603-2623. | 0.7 | 1 |
| 452 | Structural and transport properties of infinite layer Ba1â^'xSrxCuO2+Î´ films grown by MBE. Physica C: Superconductivity and Its Applications, 1994, 235-240, 977-978. | 0.6 | 1 |
| 453 | Atomic Structure Of Epitaxial Thin Films Of The Srn+1tinO3n+1 Ruddlesden-Popper Homologous Series. Microscopy and Microanalysis, 1999, 5, 114-115. | 0.2 | 1 |
| 454 | Investigation of Growth Evolution in c-Axis SrBi2Nb2O9 Epitaxial Thin Films. Materials Research Society Symposia Proceedings, 1999, 574, 31. | 0.1 | 1 |
| 455 | TEM Study of the Effect of the Sapphire Substrate Surface Orientation on the Microstructure of Tin Dioxide Films. Microscopy and Microanalysis, 2001, 7, 1220-1221. | 0.2 | 1 |
| 456 | SURFACE NANOPATTERNING EFFECTS, STRUCTURE AND MAGNETIC PROPERTIES OF EPITAXIAL Ni FILMS. International Journal of Nanoscience, 2004, 03, 737-748. | 0.4 | 1 |
| 457 | Growth and Structural Evolution of Nanosized Ni on (001) MgO by in situ TEM. Microscopy and Microanalysis, 2004, 10, 272-273. | 0.2 | 1 |
| 458 | Ultrafast pulsed laser ablation for synthesis of nanocrystals. , 2007, , . | | 1 |
| 459 | Effects of defects on the electrical and optical properties of ZnO thin films. , 2008, , . | | 1 |
| 460 | Domain Structure Control of BiFeO3 Films Through Substrate Symmetry and Film Thickness. Microscopy and Microanalysis, 2009, 15, 1030-1031. | 0.2 | 1 |
| 461 | Electrical transport in ion beam created InAs nanospikes. Nanotechnology, 2012, 23, 315301. | 1.3 | 1 |
| 462 | Evolution of self-assembled type-II ZnTe/ZnSe nanostructures: Structural and electronic properties. Journal of Applied Physics, 2012, 111, 093524. | 1.1 | 1 |
| 463 | In situ Scanning Transmission Electron Microscopy with Atomic Resolution under Atmospheric Pressures. Microscopy and Microanalysis, 2018, 24, 234-235. | 0.2 | 1 |
| 464 | In-situ TEM Characterization of Ultra-robust Memristors Based on Fully Layered Two-dimensional Materials. Microscopy and Microanalysis, 2018, 24, 1886-1887. | 0.2 | 1 |
| 465 | In Situ TEM Probing of Ferroelectric Switching under Electrical Bias. Microscopy and Microanalysis, 2018, 24, 1812-1813. | 0.2 | 1 |
| 466 | Emergent Ferromagnetism: Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO<sub>3</sub> Epitaxial Thin Film System (Adv. Electron. Mater. 6/2018). Advanced Electronic Materials, 2018, 4, 1870030. | 2.6 | 1 |
| 467 | Electron ptychography using an ultrafast direct electron detector. Microscopy and Microanalysis, 2019, 25, 20-21. | 0.2 | 1 |
| 468 | Mapping the Nanoscale Redshift of Optical Phonon Modes in a Strained Quantum Dot System. Microscopy and Microanalysis, 2019, 25, 626-627. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 469 | In situ Cathodoluminescence and Monitoring Electronic Structure Change Using Optical TEM Holder. Microscopy and Microanalysis, 2019, 25, 2302-2303. | 0.2 | 1 |
| 470 | In Situ Observations of Abnormal Pore Size Changes of a Zirconium Based Metal-Organic Framework Using Atomic Resolution S/TEM and EELS. Microscopy and Microanalysis, 2019, 25, 1486-1487. | 0.2 | 1 |
| 471 | In situ Scanning Transmission Electron Microscopy with Atomic Resolution under Atmospheric Pressure. Microscopy Today, 2019, 27, 16-21. | 0.2 | 1 |
| 472 | Anomalous Linear Layer-Dependent Blue Shift of Ultraviolet-Range Interband Transition in Two-Dimensional MoS<sub>2</sub>. Journal of Physical Chemistry C, 2020, 124, 1609-1616. | 1.5 | 1 |
| 473 | Multiscale Electric Field Imaging of Vortices in PbTiO3-SrTiO3 Superlattice. Microscopy and Microanalysis, 2020, 26, 466-468. | 0.2 | 1 |
| 474 | Directly Probing Local Coordination, Charge State and Stability of Single Atom Catalysts. Microscopy and Microanalysis, 2020, 26, 2468-2469. | 0.2 | 1 |
| 475 | Phonon Reflections from Nanostructured Interfaces Imaged by Momentum- Averaged and Resolved Vibrational EELS. Microscopy and Microanalysis, 2021, 27, 1204-1206. | 0.2 | 1 |
| 476 | Atomic-resolution study of charge transfer effects at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mo>/</mml:mo><mml:mrow><mml:mi>La mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> interface. Physical Review B, 2021, 104, . | 1.1 | 1 |
| 477 | Observation of conducting filament growth in nanoscale resistive memories. , 0, . | | 1 |
| 478 | Transmission Electron Microscopy Studies of Pd Encapsulation by Ceria-Zirconia Oxides. Microscopy and Microanalysis, 1998, 4, 724-725. | 0.2 | 0 |
| 479 | Microstructure of PbTi03/SrTi03 Superlattice Grown by MBE. Microscopy and Microanalysis, 1998, 4, 576-577. | 0.2 | 0 |
| 480 | Microstructure and Strain Relaxation of Epitaxial SrRuO3 Films. Microscopy and Microanalysis, 1998, 4, 580-581. | 0.2 | 0 |
| 481 | Effect Of The Substrate Surface Termination On The Structure Of The Bi4Ti3O12 / SrTiO3 Interface. Microscopy and Microanalysis, 1999, 5, 104-105. | 0.2 | 0 |
| 482 | Synthesis and Properties of Epitaxial Thin Films of c-axis Oriented Metastable Four-Layered Hexagonal BaRuO3. Materials Research Society Symposia Proceedings, 1999, 602, 55. | 0.1 | 0 |
| 483 | Interfacial Structure of BaRuO3 Thin Films Grown On (111) SrTiO3. Materials Research Society Symposia Proceedings, 2000, 654, 241. | 0.1 | 0 |
| 484 | Effect of Substrate Surface Structure and Deposition Conditions on the Microstructure of Tin Dioxide Thin Films Synthesized by Femtosecond Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 654, 3451. | 0.1 | 0 |
| 485 | Structure-Property Relationships of Tin Dioxide Thin Films Grown on Sapphire Substrates by Femtosecond Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 654, 771. | 0.1 | 0 |
| 486 | Electrical Properties of Doped Tin Dioxide Thin Films Deposited Using Femtosecond Pulsed Laser Ablation.. Materials Research Society Symposia Proceedings, 2000, 654, 731. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 487 | Interfacial Structure of Metastable 4H-BaRuO3 Thin Film on (111) SrTiO3 Substrate. Microscopy and Microanalysis, 2000, 6, 1066-1067. | 0.2 | 0 |
| 488 | Transmission Electron Microscopy Study of Tin Oxide Thin Films Deposited on the Sapphire Substrate. Microscopy and Microanalysis, 2000, 6, 442-443. | 0.2 | 0 |
| 489 | Strained BaTiO3 / SrTiO3 Superlattice Grwon by Reactive Molecular Beam Epitaxy. Microscopy and Microanalysis, 2000, 6, 400-401. | 0.2 | 0 |
| 490 | Nonorthogonal Twining in Epitaxial SrRuO3 Thin Films Grown on (001) LaAlO3. Microscopy and Microanalysis, 2001, 7, 332-333. | 0.2 | 0 |
| 491 | Transmission Electron Microscopy Studies of Epitaxial Superconducting MgB2 Thin Film. Microscopy and Microanalysis, 2002, 8, 1364-1365. | 0.2 | 0 |
| 492 | Aliovalent Dopant Distribution in Nanocrystalline Tin Dioxide Thin Films Studied by XRay Energy Dispersive Spectroscopy. Microscopy and Microanalysis, 2002, 8, 1168-1169. | 0.2 | 0 |
| 493 | Characteristics of Palladium Particles on Tin Dioxide Thin Films Studied by Transmission Electron Microscopy. Microscopy and Microanalysis, 2002, 8, 1154-1155. | 0.2 | 0 |
| 494 | Role of interface on structure and properties of epitaxial ferroelectric thin films. , 2008, , . | | 0 |
| 495 | Strain tunability of spontaneous polarization and enhanced ferroelectric properties in epitaxial (001) BiFeO3 thin films. , 2008, , . | | 0 |
| 496 | Template engineering of Co-doped BaFe2As2 single-crystal thin films. , 2010, , 321-326. | | 0 |
| 497 | Bipolar resistance switching in multiferroic BiFeO3 polycrystalline films. , 2010, , . | | 0 |
| 498 | Research on Influencing Factors of Wood Residual Fiber Foaming Cushion Material. Advanced Materials Research, 0, 511, 46-50. | 0.3 | 0 |
| 499 | Interface Effects on Static and Dynamic Properties of Multiferroic BiFeO3. Microscopy and Microanalysis, 2012, 18, 320-321. | 0.2 | 0 |
| 500 | New Insight into Atomic Scale Phenomena in Novel Perovskite-Based Catalysts. Microscopy and Microanalysis, 2012, 18, 1296-1297. | 0.2 | 0 |
| 501 | Direct Observations of Retention Failure in Ferroelectric Memories by in situ Transmission Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 1846-1847. | 0.2 | 0 |
| 502 | Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO3Films (Adv. Mater. 39/2013). Advanced Materials, 2013, 25, 5560-5560. | 11.1 | 0 |
| 503 | Anisotropic growth of zinc oxide pillars on silver nanoparticles by oblique angle deposition. Journal of the Ceramic Society of Japan, 2013, 121, 710-713. | 0.5 | 0 |
| 504 | In-situ TEM Observation of Electrochemical Cycling of a Si/TiO2 Composite NW. Microscopy and Microanalysis, 2014, 20, 454-455. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 505 | MOCVD-Grown InGaN nanowires for photovoltaic applications. , 2014, , . | | 0 |
| 506 | Observation of Pt-atom complexes in CaTi1-xPtxO3-Î´. Microscopy and Microanalysis, 2014, 20, 468-469. | 0.2 | 0 |
| 507 | Mechanical and Electrical Control of Charged Domain Walls in Ferroelectric Materials. Microscopy and Microanalysis, 2014, 20, 1546-1547. | 0.2 | 0 |
| 508 | In-situ Switching of a Ferroelectric Film Through a Non-ferroelectric Layer and Direct Scanning Probe Analysis of the Same Cross Section. Microscopy and Microanalysis, 2014, 20, 1658-1659. | 0.2 | 0 |
| 509 | In-situ Study of Coarsening Mechanisms of Supported Metal Particles in Reducing Gas. Microscopy and Microanalysis, 2015, 21, 643-644. | 0.2 | 0 |
| 510 | Atomic-scale Mechanisms of Defect-Induced Retention Failure in Ferroelectric Materials. Microscopy and Microanalysis, 2015, 21, 1307-1308. | 0.2 | 0 |
| 511 | Enhancement of Oxygen Contrast in a STEM HAADF Image of Perovskite Oxide SrTiO3 Using Maximum Entropy Method. Microscopy and Microanalysis, 2015, 21, 123-124. | 0.2 | 0 |
| 512 | Interface-related resistive switching in BiFeO3 thin films. Journal of Materials Science: Materials in Electronics, 2015, 26, 1727-1731. | 1.1 | 0 |
| 513 | Ex-situ and in-situ Microscopy Study of ZrO 2 -stabilized Pd/Al 2 O 3 Catalysts. Microscopy and Microanalysis, 2016, 22, 782-783. | 0.2 | 0 |
| 514 | Transmission Electron Microscopy at Atmospheric Pressure. Microscopy and Microanalysis, 2016, 22, 726-727. | 0.2 | 0 |
| 515 | Evolution of Au 25 (SR)18 Nanoclusters on Ceria Surfaces during in situ Electron Beam Irradiation. Microscopy and Microanalysis, 2016, 22, 1278-1279. | 0.2 | 0 |
| 516 | Towards 3D electron ptychographic reconstruction. Microscopy and Microanalysis, 2016, 22, 464-465. | 0.2 | 0 |
| 517 | In situ Study of Dynamics of CuAu Alloy Nanoparticles on Oxide Supports. Microscopy and Microanalysis, 2017, 23, 954-955. | 0.2 | 0 |
| 518 | Electron Ptychography: From 2D to 3D Reconstructions. Microscopy and Microanalysis, 2017, 23, 346-347. | 0.2 | 0 |
| 519 | In-situ observation of Rh-CaTiO3 catalysts during reduction and oxidation treatments by transmission electron microscopy. Microscopy and Microanalysis, 2017, 23, 948-949. | 0.2 | 0 |
| 520 | Interaction between Ferroelectric Polarization and Defects in BiFeO3 Thin Films. Microscopy and Microanalysis, 2017, 23, 1604-1605. | 0.2 | 0 |
| 521 | Partial Ferroelastic Domain Mediated Ferroelectric Domain Switching. Microscopy and Microanalysis, 2017, 23, 1624-1625. | 0.2 | 0 |
| 522 | Calculation of the Electric Field Based on Average Momentum Transfer Using Pixelated Electron Detector in STEM. Microscopy and Microanalysis, 2017, 23, 2104-2105. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 523 | Double-tilt in situ TEM Holder with Ultra-high Stability. Microscopy and Microanalysis, 2018, 24, 1890-1891. | 0.2 | 0 |
| 524 | Defect-assisted Reorganization of Ferroelectric Domain Walls Revealed by Aberration-corrected Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 104-105. | 0.2 | 0 |
| 525 | Combined In Situ and Ex Situ Study on Synthesis of Nanostructured Catalyst in Solid State. Microscopy and Microanalysis, 2018, 24, 288-289. | 0.2 | 0 |
| 526 | Investigating Thermal Behavior of Surface Phonon in SiC by in-situ Vibrational Spectroscopy. Microscopy and Microanalysis, 2018, 24, 416-417. | 0.2 | 0 |
| 527 | Investigation of Surface and Bulk Vibrational Modes in SiC Polytypes using Spatially Resolved Monochromated HREELS. Microscopy and Microanalysis, 2018, 24, 462-463. | 0.2 | 0 |
| 528 | Transmission Electron Microscopy of Catalytic Nanomaterials at Atomic Resolution. Microscopy and Microanalysis, 2019, 25, 2054-2055. | 0.2 | 0 |
| 529 | Measuring Charge State at the Single-Atomic-Column-Base with Four-Dimensional Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 16-17. | 0.2 | 0 |
| 530 | High Spatial Resolution Low-Voltage Electron Imaging and Spectroscopy of Two-Dimensional Materials and Semiconductor Nanostructures. Microscopy and Microanalysis, 2019, 25, 468-469. | 0.2 | 0 |
| 531 | Developing Multifunctional and High Resolution In-situ TEM Holders. Microscopy and Microanalysis, 2019, 25, 1854-1855. | 0.2 | 0 |
| 532 | Charge Density Mapping via Scanning Diffraction in Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 18-19. | 0.2 | 0 |
| 533 | Observation of Dislocation-Assisted 2-Dimensional Conductive Channels Embedded in Perovskite Thin Films. Microscopy and Microanalysis, 2019, 25, 2410-2411. | 0.2 | 0 |
| 534 | Probing Local Vibration Modes at Single Planar Defects by Vibrational Spectroscopy. Microscopy and Microanalysis, 2020, 26, 952-953. | 0.2 | 0 |
| 535 | Observation of Charge Separation along BiFeO3 109Â° Domain Walls by Using Low-convergence Angle 4-Dimensional Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 234-235. | 0.2 | 0 |
| 536 | Anomalous Linear Layer-dependent Blue Shift of Interband Transition in Two-Dimensional Materials. Microscopy and Microanalysis, 2020, 26, 634-635. | 0.2 | 0 |
| 537 | Polarization in Ferroelectric BiFeO3 Imaged in 3D Using Four-dimensional Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 1132-1134. | 0.2 | 0 |
| 538 | Low Dose Electron Ptychography for Cryo-biological Imaging. Microscopy and Microanalysis, 2020, 26, 1488-1490. | 0.2 | 0 |
| 539 | Revealing Abnormal Phonon Polaritons Confined at the Edge of Curved Two-Dimensional Boron Nitride. Microscopy and Microanalysis, 2021, 27, 130-132. | 0.2 | 0 |
| 540 | Disconnection-mediated twin junction migration mechanism in FCC metals. Microscopy and Microanalysis, 2021, 27, 3100-3102. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 541 | Synthesis of Heteroatom Rhâ€“ReOx Atomically Dispersed Species on Al2O3 and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. Microscopy and Microanalysis, 2021, 27, 1570-1571. | 0.2 | 0 |
| 542 | Controllable Growth of Copper on TiO2 Nanoparticles Through Coupled Effects of Solution Viscosity and Photoreduction Rate. Microscopy and Microanalysis, 2021, 27, 2346-2348. | 0.2 | 0 |
| 543 | Probing phonon propagation in materials by angle-resolved and angle-averaged vibrational EELS. Microscopy and Microanalysis, 2021, 27, 118-120. | 0.2 | 0 |
| 544 | High-Throughput Intelligent Analysis of High and Low-Loss EELS. Microscopy and Microanalysis, 2021, 27, 626-628. | 0.2 | 0 |
| 545 | Observation of a charged incoherent BiFeO3/SrTiO3 interface. Microscopy and Microanalysis, 2021, 27, 1454-1455. | 0.2 | 0 |
| 546 | Probing the Dynamics of Phase Transformation in Nanostructures by STEM Imaging and Spectroscopy. Microscopy and Microanalysis, 2021, 27, 1964-1966. | 0.2 | 0 |
| 547 | Space- and Angle-Resolved Vibrational Spectroscopy to Probe the Local Phonon Modes at Planar Defects. Microscopy and Microanalysis, 2021, 27, 1190-1192. | 0.2 | 0 |
| 548 | (Invited) Probing the Structure and Dynamic Behaviors of Heterogeneous Functional Materials with the Atomic Resolution in Real-Time. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |