

MarÃ- a Varela del Arco

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Colossal Ionic Conductivity at Interfaces of Epitaxial $ZrO_2/Y_2O_3/SrTiO_3$ Heterostructures. <i>Science</i> , 2008, 321, 676-680.	6.0	675
2	Irradiation-free, columnar defects comprised of self-assembled nanodots and nanorods resulting in strongly enhanced flux-pinning in $YBa_2Cu_3O_{7-x}$ films. <i>Superconductor Science and Technology</i> , 2005, 18, 1533-1538.	1.8	443
3	Few-layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14345-14349.	7.2	346
4	Spectroscopic Imaging of Single Atoms Within a Bulk Solid. <i>Physical Review Letters</i> , 2004, 92, 095502.	2.9	299
5	Nanoscale strain-induced pair suppression as a vortex-pinning mechanism in high-temperature superconductors. <i>Nature Materials</i> , 2012, 11, 329-336.	13.3	298
6	Electric-Field Control of Exchange Bias in Multiferroic Epitaxial Heterostructures. <i>Physical Review Letters</i> , 2006, 97, 227201.	2.9	295
7	Atomic-resolution imaging of oxidation states in manganites. <i>Physical Review B</i> , 2009, 79, .	1.1	274
8	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2017, 139, 10432-10440.	6.6	232
9	Production of ordered silicon nanocrystals by low-energy ion sputtering. <i>Applied Physics Letters</i> , 2001, 78, 3316-3318.	1.5	226
10	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14557-14562.	7.2	199
11	Ferromagnetic/superconducting proximity effect in $La_{0.7}Ca_{0.3}MnO_3/YBa_2Cu_3O_{7-x}$ superlattices. <i>Physical Review B</i> , 2003, 67, .	1.1	197
12	MATERIALS CHARACTERIZATION IN THE ABERRATION-CORRECTED SCANNING TRANSMISSION ELECTRON MICROSCOPE. <i>Annual Review of Materials Research</i> , 2005, 35, 539-569.	4.3	188
13	Spin filtering through ferromagnetic $BiMnO_3$ tunnel barriers. <i>Physical Review B</i> , 2005, 72, .	1.1	187
14	Electric control of magnetism at the $Fe/BaTiO_3$ interface. <i>Nature Communications</i> , 2014, 5, 3404.	5.8	179
15	Enhanced current transport at grain boundaries in high- T_c superconductors. <i>Nature</i> , 2005, 435, 475-478.	13.7	177
16	Direct Measurement of the Low-Temperature Spin-State Transition in $LaCoO_3$. <i>Physical Review Letters</i> , 2007, 99, 047203.	2.9	164
17	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	5.8	160
18	Asymmetric Orbital-Lattice Interactions in Ultrathin Correlated Oxide Films. <i>Physical Review Letters</i> , 2011, 107, 116805.	2.9	158

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19	Coupling of superconductors through a half-metallic ferromagnet: Evidence for a long-range proximity effect. <i>Physical Review B</i> , 2004, 69, .	1.1	152
20	Insulating Ferromagnetic LaCoO_3 A Phase Induced by Ordering of Oxygen Vacancies. <i>Physical Review Letters</i> , 2014, 112, .	2.9	111
21	Engineering two-dimensional superconductivity and Rashba spin-orbit coupling in $\text{LaAlO}_3/\text{SrTiO}_3$ quantum wells by selective orbital occupancy. <i>Nature Communications</i> , 2015, 6, 6028.	5.8	144
22	Growth behavior of carbon nanotubes on multilayered metal catalyst film in chemical vapor deposition. <i>Chemical Physics Letters</i> , 2003, 374, 222-228.	1.2	133
23	Conducting interfaces between band insulating oxides: The $\text{LaGaO}_3/\text{SrTiO}_3$ heterostructure. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	133
24	Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO_2 over Nanostructured $\text{Pd@Nb}_2\text{O}_5$. <i>Advanced Science</i> , 2016, 3, 1600189.	5.6	133
25	Surfactant Organic Molecules Restore Magnetism in Metal-Oxide Nanoparticle Surfaces. <i>Nano Letters</i> , 2012, 12, 2499-2503.	4.5	132
26	Electron Transfer and Ionic Displacements at the Origin of the 2D Electron Gas at the LaO/STO Interface: Direct Measurements with Atomic Column Spatial Resolution. <i>Advanced Materials</i> , 2012, 24, 3952-3957.	11.1	132
27	Correlated Optical Measurements and Plasmon Mapping of Silver Nanorods. <i>Nano Letters</i> , 2011, 11, 3482-3488.	4.5	125
28	Origin of Colossal Ionic Conductivity in Oxide Multilayers: Interface Induced Sublattice Disorder. <i>Physical Review Letters</i> , 2010, 104, 115901.	2.9	124
29	Lattice mismatch accommodation via oxygen vacancy ordering in epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$ thin films. <i>APL Materials</i> , 2013, 1, .	2.2	124
30	Tetragonal phase of epitaxial room-temperature antiferromagnet CuMnAs . <i>Nature Communications</i> , 2013, 4, 2322.	5.8	123
31	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. <i>Nature Physics</i> , 2016, 12, 484-492.	6.5	122
32	Wet etching of GaN grown by molecular beam epitaxy on Si(111). <i>Semiconductor Science and Technology</i> , 2000, 15, 996-1000.	1.0	120
33	Direct Imaging of Nanoscale Phase Separation in $\text{La}_{0.55}\text{Ca}_{0.45}\text{MnO}_3$ Relationship to Colossal Magnetoresistance. <i>Physical Review Letters</i> , 2009, 103, 097202.	2.9	118
34	Alkoxide-intercalated CoFe-layered double hydroxides as precursors of colloidal nanosheet suspensions: structural, magnetic and electrochemical properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3723-3731.	2.7	116
35	Charge Leakage at $\text{LaMnO}_3/\text{SrTiO}_3$ Interfaces. <i>Advanced Materials</i> , 2010, 22, 627-632.	11.1	113
36	Influence of defects on structural and magnetic properties of multifunctional $\text{La}_{2-\delta}\text{NiMn}_6\text{O}_{12}$ thin films. <i>Physical Review B</i> , 2008, 77, .	1.1	101

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37	Nonferroelectric contributions to the hysteresis cycles in manganite thin films: A comparative study of measurement techniques. Journal of Applied Physics, 2011, 109, .	1.1	100
38	Enhancement of flux pinning in YBa ₂ Cu ₃ O _{7-x} thin films embedded with epitaxially grown Y ₂ O ₃ nanostructures using a multi-layering process. Superconductor Science and Technology, 2005, 18, 1502-1505.	1.8	93
39	Resonant electron tunnelling assisted by charged domain walls in multiferroic tunnel junctions. Nature Nanotechnology, 2017, 12, 655-662.	15.6	92
40	Atomic-Resolution Imaging of Spin-State Superlattices in Nanopockets within Cobaltite Thin Films. Nano Letters, 2011, 11, 973-976.	4.5	90
41	Materials Advances through Aberration-Corrected Electron Microscopy. MRS Bulletin, 2006, 31, 36-43.	1.7	89
42	Aberration-corrected scanning transmission electron microscopy: from atomic imaging and analysis to solving energy problems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3709-3733.	1.6	89
43	Suppressed magnetization in La _{0.7} Ca _{0.3} MnO ₃ •YBa ₂ Cu ₃ O _{7-x} superlattices. Physical Review B, 2005, 72, .	1.1	88
44	Superconductivity depression in ultrathin YBa ₂ Cu ₃ O _{7-x} layers in La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O _{7-x} superlattices. Applied Physics Letters, 2002, 81, 4568-4570.	1.5	86
45	Electronic and Magnetic Reconstructions in $La_{0.7}Ca_{0.3}MnO_3/YBa_2Cu_3O_{7-x}$ Superlattices: A Case of Enhanced Interlayer Coupling Controlled by the Interface. Physical Review Letters, 2011, 106, 147205.	2.9	83
46	Modulation of Magnetic Heating via Dipolar Magnetic Interactions in Monodisperse and Crystalline Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19985-19994.	1.5	82
47	Magnetoimpedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2012, 86, .	1.1	80
48	Epitaxial stabilization of μ -Fe ₂ O ₃ (001) thin films on SrTiO ₃ (111). Applied Physics Letters, 2010, 96, .	1.5	79
49	Validation of terrestrial laser scanning and photogrammetry techniques for the measurement of vertical underclearance and beam geometry in structural inspection of bridges. Measurement: Journal of the International Measurement Confederation, 2013, 46, 784-794.	2.5	76
50	Nanoscale analysis of YBa ₂ Cu ₃ O _{7-x} /La _{0.67} Ca _{0.33} MnO ₃ interfaces. Solid-State Electronics, 2003, 47, 2245-2248.	0.8	72
51	Antiferroelectricity in multiferroic BiCrO ₃ epitaxial films. Applied Physics Letters, 2006, 89, 162904.	1.5	72
52	Intracell Changes in Epitaxially Strained YBa ₂ Cu ₃ O _{7-x} Ultrathin Layers in YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ Superlattices. Physical Review Letters, 1999, 83, 3936-3939.	2.9	71
53	Revealing the Reconstructed Surface of Li[Mn ₂]O ₄ . Nano Letters, 2016, 16, 2899-2906.	4.5	71
54	Epitaxial La _{0.5} Sr _{0.5} CoO ₃ thin films: Structure, magnetism, and transport. Journal of Applied Physics, 2008, 104, .	1.1	69

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55	Column-by-column compositional mapping by Z-contrast imaging. Ultramicroscopy, 2009, 109, 172-176.	0.8	68
56	Long-range ferromagnetic order in LaCoO_3 films due to the interplay of epitaxial strain and oxygen vacancy ordering. Physical Review B, 2015, 91, .	1.1	66
57	Interface structure and non-stoichiometry in HfO ₂ dielectrics. Applied Physics Letters, 2004, 85, 672-674.	1.5	66
58	Orbital-Occupancy versus Charge Ordering and the Strength of Electron Correlations in Electron-Doped CaMnO_3 . Physical Review Letters, 2007, 99, 036402.	2.9	66
59	Local valence and magnetic characteristics of LaMnO_2 . Physical Review B, 2009, 79, .	1.1	66
60	Atomic-resolution spectroscopic imaging: past, present and future. Journal of Electron Microscopy, 2009, 58, 87-97.	0.9	66
61	Temperature influence on the production of nanodot patterns by ion beam sputtering of Si(001). Physical Review B, 2006, 73, .	1.1	64
62	Interpreting atomic-resolution spectroscopic images. Physical Review B, 2007, 76, .	1.1	64
63	Nanopatterning of silicon surfaces by low-energy ion-beam sputtering: dependence on the angle of ion incidence. Nanotechnology, 2002, 13, 304-308.	1.3	61
64	Initial growth of vertically aligned carbon nanofibers. Applied Physics Letters, 2004, 84, 4077-4079.	1.5	61
65	Chemically Driven Nanoscopic Magnetic Phase Separation at the $\text{SrTiO}_3/\text{La}_x\text{Sr}_{1-x}\text{CoO}_3$ Interface. Advanced Materials, 2011, 23, 2711-2715.	11.1	61
66	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. Nature Communications, 2019, 10, 509.	5.8	61
67	Magnetism and superconductivity in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ superlattices. Journal of Applied Physics, 2001, 89, 8026-8029.	1.1	60
68	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. Nano Letters, 2018, 18, 5364-5372.	4.5	60
69	Defect-mediated ferromagnetism in insulating Co-doped anatase TiO_2 films. Physical Review B, 2008, 78, .	1.1	59
70	Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215.	5.8	59
71	Alkoxide-intercalated NiFe-layered double hydroxides magnetic nanosheets as efficient water oxidation electrocatalysts. Inorganic Chemistry Frontiers, 2016, 3, 478-487.	3.0	58
72	Storing magnetic information in IrMn/MgO/Ta tunnel junctions via field-cooling. Applied Physics Letters, 2013, 102, .	1.5	56

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73	Effect of oxygen concentration on the magnetic properties of La ₂ CoMnO ₆ thin films. Applied Physics Letters, 2007, 91, .	1.5	54
74	Optical study of strained ultrathin films of strongly correlated LaNiO_3 . Physical Review B, 2011, 83, .	1.1	54
75	Metal-insulator transition above room temperature in maximum colossal magnetoresistance manganite thin films. Physical Review B, 2005, 72, .	1.1	53
76	Seeing oxygen disorder in YSZ/SrTiO ₃ colossal ionic conductor heterostructures using EELS. EPJ Applied Physics, 2011, 54, 33507.	0.3	52
77	<i>In operando</i> evidence of deoxygenation in ionic liquid gating of YBa ₂ Cu ₃ O _{7-x} . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 215-220.	3.3	51
78	Tailoring Disorder and Dimensionality: Strategies for Improved Solid Oxide Fuel Cell Electrolytes. ChemPhysChem, 2009, 10, 1003-1011.	1.0	50
79	A phase transition close to room temperature in BiFeO ₃ thin films. Journal of Physics Condensed Matter, 2011, 23, 342202.	0.7	49
80	Response to Comment on "Colossal Ionic Conductivity at Interfaces of Epitaxial ZrO ₂ :Y ₂ O ₃ /SrTiO ₃ Heterostructures". Science, 2009, 324, 465-465.	6.0	47
81	Magnetic Nonuniformity and Thermal Hysteresis of Magnetism in a Manganite Thin Film. Physical Review Letters, 2012, 108, 077207.	2.9	47
82	Crossover from a three-dimensional to purely two-dimensional vortex-glass transition in deoxygenated YBa ₂ Cu ₃ O _{7-δ} thin films. Physical Review B, 1999, 60, 15423-15429.	1.1	45
83	Surface Reconstruction in Li-Rich Layered Oxides of Li-Ion Batteries. Chemistry of Materials, 2017, 29, 7668-7674.	3.2	45
84	Formation of titanium monoxide (001) single-crystalline thin film induced by ion bombardment of titanium dioxide (110). Nature Communications, 2015, 6, 6147.	5.8	44
85	STEM-EELS imaging of complex oxides and interfaces. MRS Bulletin, 2012, 37, 29-35.	1.7	43
86	Misfit accommodation in oxide thin film heterostructures. Acta Materialia, 2013, 61, 2725-2733.	3.8	42
87	Influence of thermally induced oxygen order on mobile ion dynamics in Gd ₂ (Ti _{0.65} Zr _{0.35}) ₂ O ₇ . Physical Review B, 2007, 75, .	1.1	41
88	Emerging Diluted Ferromagnetism in High- T_c Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295.	5.6	41
89	Enhanced figure of merit in nanostructured (Bi,Sb) ₂ Te ₃ with optimized composition, prepared by a straightforward arc-melting procedure. Scientific Reports, 2017, 7, 6277.	1.6	41
90	Magnetic anisotropy in epitaxial CrO ₂ and CrO ₂ •Cr ₂ O ₃ bilayer thin films. Physical Review B, 2006, 74, .	1.1	40

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91	Low Temperature Epitaxial Oxide Ultrathin Films and Nanostructures by Atomic Layer Deposition. Chemistry of Materials, 2012, 24, 3732-3737.	3.2	40
92	Stimuli-responsive hybrid materials: breathing in magnetic layered double hydroxides induced by a thermoresponsive molecule. Chemical Science, 2015, 6, 1949-1958.	3.7	40
93	Effects of Au nanoparticles on the magnetic and transport properties of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ layers. Physical Review B, 2010, 81, .	1.1	39
94	Strain-driven broken twin boundary coherence in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ nanocomposite thin films. Applied Physics Letters, 2013, 102, .	1.5	39
95	Engineering Large Anisotropic Magnetoresistance in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Films at Room Temperature. Advanced Functional Materials, 2017, 27, 1700664.	7.8	39
96	Two-Dimensional Electron Gases at $\text{LaAlO}_3/\text{SrTiO}_3$ Orbital Symmetry and Hierarchy Engineered by Crystal Orientation. Physical Review Letters, 2014, 113, 156802.	2.9	38
97	Oxide Wizard: An EELS Application to Characterize the White Lines of Transition Metal Edges. Microscopy and Microanalysis, 2014, 20, 698-705.	0.2	38
98	Surface plasmon resonance and magneto-optical enhancement on Au/Co nanocomposite thin films. Journal of Applied Physics, 2010, 107, .	1.1	37
99	Oxide interfaces with enhanced ion conductivity. MRS Bulletin, 2013, 38, 1056-1063.	1.7	37
100	Tailoring Interface Structure in Highly Strained YSZ/STO Heterostructures. Advanced Materials, 2011, 23, 5268-5274.	11.1	36
101	Competition between Polar and Nonpolar Lattice Distortions in Oxide Quantum Wells: New Critical Thickness at Polar Interfaces. Physical Review Letters, 2017, 119, 106102.	2.9	36
102	Structure, band offsets and photochemistry at epitaxial $\text{LaCrO}_3/\text{Fe}_2\text{O}_3$ heterojunctions. Surface Science, 2005, 587, L197-L207.	0.8	35
103	$\text{La}_2\text{Sr}_3\text{MnO}_{10}$ heterostructures for spin filtering. Journal of Applied Physics, 2006, 99, 08E504.	1.1	35
104	Paving the way to nanoionics: atomic origin of barriers for ionic transport through interfaces. Scientific Reports, 2015, 5, 17229.	1.6	35
105	Applications of STEM-EELS to complex oxides. Materials Science in Semiconductor Processing, 2017, 65, 49-63.	1.9	35
106	Pulsed laser deposition growth of heteroepitaxial YBaCu_3O_7 . Physical Review Letters, 2017, 118, 106102.	1.1	34
107	Insight into spin transport in oxide heterostructures from interface-resolved magnetic mapping. Nature Communications, 2015, 6, 6306.	5.8	34
108	Competition between Covalent Bonding and Charge Transfer at Complex-Oxide Interfaces. Physical Review Letters, 2014, 112, 196802.	2.9	33

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109	Unveiling the oxidation behavior of liquid-phase exfoliated antimony nanosheets. <i>2D Materials</i> , 2020, 7, 025039.	2.0	33
110	Electronic and crystal-field effects in the fine structure of electron energy-loss spectra of manganites. <i>Physical Review B</i> , 2009, 79, .	1.1	32
111	Direct Evidence for Block-by-Block Growth in High-Temperature Superconductor Ultrathin Films. <i>Physical Review Letters</i> , 2001, 86, 5156-5159.	2.9	31
112	Magnetic tunnel junctions based on CrO ₂ /SnO ₂ epitaxial bilayers. <i>Applied Physics Letters</i> , 2006, 89, 022511.	1.5	31
113	Determination of the strain generated in InAs/InP quantum wires: prediction of nucleation sites. <i>Nanotechnology</i> , 2006, 17, 5652-5658.	1.3	30
114	TEM and EELS measurements of interface roughness in epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2009, 79, .	1.1	30
115	Material structure, properties, and dynamics through scanning transmission electron microscopy. <i>Journal of Analytical Science and Technology</i> , 2018, 9, 11.	1.0	30
116	Low thermal conductivity in La-filled cobalt antimonide skutterudites with an inhomogeneous filling factor prepared under high-pressure conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 118-126.	5.2	30
117	Incorporation of Sb in InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2007, 91, 263105.	1.5	29
118	Symmetrical interfacial reconstruction and magnetism in La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ heterostructures. <i>Physical Review B</i> , 2011, 84, .	1.1	29
119	Metal-insulator transition in SrRuO ₃ induced by ion irradiation. <i>Applied Physics Letters</i> , 1998, 73, 3375-3377.	1.5	28
120	Thickness dependence of the exchange bias in epitaxial manganite bilayers. <i>Physical Review B</i> , 2009, 79, .	1.1	28
121	Electric and Mechanical Switching of Ferroelectric and Resistive States in Semiconducting BaTiO ₃ Films on Silicon. <i>Small</i> , 2017, 13, 1701614.	5.2	28
122	Perpendicular magnetic anisotropy via strain-engineered oxygen vacancy ordering in epitaxial L_a a S_r r C_o	0.9	28
123	Planktonic carbon budget in the eastern subtropical North Atlantic. <i>Aquatic Microbial Ecology</i> , 2007, 48, 261-275.	0.9	28
124	Study of the epitaxial growth of CeO ₂ (001) on yttria-stabilized zirconia/Si(001). <i>Journal of Crystal Growth</i> , 1998, 192, 175-184.	0.7	26
125	Characterization of suitable buffer layers on Cu and Cu alloy metal substrates for the development of coated conductors. <i>Superconductor Science and Technology</i> , 2004, 17, S341-S344.	1.8	25
126	Energy-filtering transmission electron microscopy on the nanometer length scale. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 143, 139-147.	0.8	25

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127	Electrical Switching of Magnetization in the Artificial Multiferroic CoFeB/BaTiO ₃ . Advanced Electronic Materials, 2016, 2, 1600085.	2.6	25
128	Crystal Face Distributions and Surface Site Densities of Two Synthetic Goethites: Implications for Adsorption Capacities as a Function of Particle Size. Langmuir, 2017, 33, 8924-8932.	1.6	25
129	Enhancement of critical current density of YBa ₂ Cu ₃ O _{7-δ} thin films by self-assembly of Y ₂ O ₃ nanoparticles. Thin Solid Films, 2007, 515, 6452-6455.	0.8	24
130	Dielectric properties of (Bi _{1-x} La _x) ₂ TeO ₇ thin films. Journal of Applied Physics, 2006, 99, 08M114.	1.1	24
131	Nanocrystalline Ferroelectric BiFeO ₃ Thin Films by Low-Temperature Atomic Layer Deposition. Chemistry of Materials, 2015, 27, 6322-6328.	3.2	24
132	Glass-Like Through-Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial La _{0.5} Sr _{0.5} CoO ₃ . Advanced Functional Materials, 2017, 27, 1704233.	7.8	24
133	Signatures of a Two-Dimensional Ferromagnetic Electron Gas at the La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ Interface Arising From Orbital Reconstruction. Advanced Materials, 2014, 26, 7516-7520.	11.1	23
134	Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. Journal of Physical Chemistry C, 2017, 121, 24809-24815.	1.5	23
135	Scanning Transmission Electron Microscopy for Nanostructure Characterization. , 2006, , 152-191.		22
136	Atomic-scale studies of cobalt distribution in Co-TiO ₂ anatase thin films: Processing, microstructure, and the origin of ferromagnetism. Journal of Applied Physics, 2006, 99, 08M114.	1.1	22
137	Effect of strain on structure and charge order transitions in epitaxial Bi _{0.4} Ca _{0.6} MnO ₃ films on perovskite (001) and (011) substrates. Applied Physics Letters, 2006, 88, 202503.	1.5	22
138	Single Crystalline La _{0.7} Sr _{0.3} MnO ₃ Molecular Sieve Nanowires with High Temperature Ferromagnetism. Journal of the American Chemical Society, 2011, 133, 4053-4061.	6.6	22
139	Electron-electron interaction and weak localization effects in badly metallic SrRuO ₃ . Physical Review B, 2001, 63, .	1.1	21
140	Simulation of Spatially Resolved Electron Energy Loss Near-Edge Structure for Scanning Transmission Electron Microscopy. Physical Review Letters, 2012, 109, 246101.	2.9	21
141	Synthetic magnetoelectric coupling in a nanocomposite multiferroic. Scientific Reports, 2015, 5, 9089.	1.6	21
142	Giant Enhancement in the Supercapacitance of NiFe-Graphene Nanocomposites Induced by a Magnetic Field. Advanced Materials, 2019, 31, e1900189.	11.1	21
143	Giant anisotropic magnetoresistance in oxygen-vacancy-ordered epitaxial La _{0.5} MnO ₃ films. Physical Review Materials, 2020, 4, .	0.9	21
144	Calculation of integrated intensities in aberration-corrected Z-contrast images. Journal of Electron Microscopy, 2011, 60, 29-33.	0.9	20

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145	Epitaxial SrRuO ₃ thin films on LaAlO ₃ (100) and Si(100). Applied Surface Science, 2000, 154-155, 159-164.	3.1	19
146	Epitaxial Stabilization of Ferromagnetism in the Nanophase of FeGe. Physical Review Letters, 2006, 96, 127201.	2.9	19
147	Chapter 9 Materials Applications of Aberration-Corrected Scanning Transmission Electron Microscopy. Advances in Imaging and Electron Physics, 2008, , 327-384.	0.1	19
148	Sharp Fe/MgO/Ge(001) epitaxial heterostructures for tunneling junctions. Journal of Applied Physics, 2011, 109, .	1.1	19
149	Role of elastic bending stress on magnetism of a manganite thin film studied by polarized neutron reflectometry. Physical Review B, 2012, 85, Thermally assisted tunneling transport in La _{0.7} Ca _{0.3} MnO ₃	1.1	19
150	Thermally assisted tunneling transport in La _{0.7} Ca _{0.3} MnO ₃	1.1	19
151	Fe ₂ O ₃ /Cu ₂ O heterostructured nanocrystals. Journal of Materials Chemistry A, 2014, 2, 8525-8533.	5.2	19
152	X-ray absorption study of the ferromagnetic Cu moment at the YBa ₂ Cu ₃ O _{7-x} /La _{0.7} Pr _{0.3} MnO ₇ interface. Physical Review B, 2016, 93, .	1.1	19
153	Monolithic integration of room-temperature multifunctional BaTiO ₃ -CoFe ₂ O ₄ epitaxial heterostructures on Si(001). Scientific Reports, 2016, 6, 31870.	1.6	19
154	Quasiparticle tunnel electroresistance in superconducting junctions. Nature Communications, 2020, 11, 658.	5.8	19
155	Epitaxial mismatch strain in YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ superlattices. Physical Review B, 2000, 62, 12509-12515.	1.1	18
156	Effects of epitaxial strain on the growth mechanism in YBa ₂ Cu ₃ O _{7-x} thin films in YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ superlattices. Physical Review B, 2002, 66, .	1.1	18
157	Deposition and characterization of YBa ₂ Cu ₃ O _{7-x} /LaMnO ₃ /MgO/TiN heterostructures on Cu metal substrates for development of coated conductors. Journal of Materials Research, 2003, 18, 2387-2400.	1.2	18
158	Atomic scale characterization of complex oxide interfaces. Journal of Materials Science, 2006, 41, 4389-4393.	1.7	18
159	Size dependence and peak assignment of YBa ₂ Cu ₃ O _{7-x} thin films in YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ superlattices. Physical Review B, 2008, 77, .	1.1	18
160	Clustering analysis strategies for electron energy loss spectroscopy (EELS). Ultramicroscopy, 2018, 185, 42-48.	0.8	18
161	Direct imaging of quantum wires nucleated at diatomic steps. Applied Physics Letters, 2007, 91, 143112.	1.5	17
162	Compositional tuning of the strain-induced structural phase transition and of ferromagnetism in Bi _{1-x} Ba _x FeO _{3-x} . Journal of Materials Research, 2011, 26, 1326-1331.	1.2	17

#	ARTICLE	IF	CITATIONS
163	ty enhancement driven by interfacial magnetic phase separation in SrTiO ₃ /Nd ₂ O ₃ superlattices. <i>Physical Review Letters</i> , 2013, 110, 177401.	1.1	17
164	Characterization of surface metallic states in SrTiO ₃ by means of aberration corrected electron microscopy. <i>Ultramicroscopy</i> , 2013, 127, 109-113.	0.8	17
165	Bismuth labeling for the CT assessment of local administration of magnetic nanoparticles. <i>Nanotechnology</i> , 2015, 26, 135101.	1.3	17
166	Compositional Analysis with Atomic Column Spatial Resolution by 5th-Order Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2011, 17, 578-581.	0.2	16
167	A Living/Dead Magnetic Layer at the Surface of Ferrimagnetic DyTiO ₃ Thin Films. <i>Advanced Materials</i> , 2018, 30, e1707489.	11.1	15
168	Controlled Sign Reversal of Electroresistance in Oxide Tunnel Junctions by Electrochemical-Ferroelectric Coupling. <i>Physical Review Letters</i> , 2020, 125, 266802.	2.9	15
169	Direct correlation between T _c and CuO ₂ bilayer spacing in YBa ₂ Cu ₃ O _{7-x} . <i>Physical Review B</i> , 2002, 66, .	1.1	14
170	Growth of Sr ₂ CrReO ₆ epitaxial thin films by pulsed laser deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1217-1220.	1.0	14
171	Improved thermal stability of oxide-supported naked gold nanoparticles by ligand-assisted pinning. <i>Nanoscale</i> , 2012, 4, 2278.	2.8	14
172	Critical temperature depression and persistent photoconductivity in ion irradiated YBa ₂ Cu ₃ O _{7-x} films and YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ superlattices. <i>Applied Physics Letters</i> , 2000, 76, 3289-3291.	1.5	13
173	Surface mechanical effects of nitrogen ion implantation on vanadium alloys. <i>Surface and Coatings Technology</i> , 2002, 158-159, 669-673.	2.2	13
174	Strain induced phase separation in La _{0.67} Ca _{0.33} MnO ₃ ultra thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 472-475.	1.9	13
175	Thickness Dependent Magnetic Anisotropy of Ultrathin LCMO Epitaxial Thin Films. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2926-2929.	1.2	13
176	New views of materials through aberration-corrected scanning transmission electron microscopy. <i>Microscopy (Oxford, England)</i> , 2011, 60, S213-S223.	0.7	13
177	Oxygen Octahedral Distortions in LaMO ₃ /SrTiO ₃ Superlattices. <i>Microscopy and Microanalysis</i> , 2014, 20, 825-831.	0.2	13
178	Conducting interfaces between amorphous oxide layers and SrTiO ₃ (110) and SrTiO ₃ (111). <i>Solid State Ionics</i> , 2015, 281, 68-72.	1.3	13
179	Large Perpendicular Magnetic Anisotropy in Nanometer-Thick Epitaxial Graphene/Co/Heavy Metal Heterostructures for Spin/Orbitronics Devices. <i>ACS Applied Nano Materials</i> , 2021, 4, 4398-4408.	2.4	13
180	Switchable Optically Active Schottky Barrier in La _{0.7} Sr _{0.3} MnO ₃ /BaTiO ₃ /ITO Ferroelectric Tunnel Junction. <i>Advanced Electronic Materials</i> , 2021, 7, 2100069.	2.6	13

#	ARTICLE	IF	CITATIONS
181	A combined micro-Raman, X-ray absorption and magnetic study to follow the glycerol-assisted growth of epsilon-iron oxide sol-gel coatings. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162061.	2.8	13
182	Origin of the magnetic transition at 100 K in $\mu\text{-Fe}_2\text{O}_3$ nanoparticles studied by x-ray absorption fine structure spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 485701.	0.7	13
183	Tunnel magnetoresistance in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3\text{-PrBa}_2\text{Cu}_3\text{O}_{7-x}\text{-La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Applied Physics Letters</i> , 2006, 88, 022512.	1.5	12
184	Simulation of Probe Position-Dependent Electron Energy-Loss Fine Structure. <i>Microscopy and Microanalysis</i> , 2014, 20, 784-797.	0.2	12
185	Modified magnetic anisotropy at $\text{LaCoO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ interfaces. <i>APL Materials</i> , 2017, 5, .	2.2	12
186	High-temperature Magnetodielectric $\text{BiFe}_{0.5}\text{O}_3$ Thin Films with Checkerboard-Ordered Oxygen. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
187	Controlled Growth of Ferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Nanoparticles. <i>Physical Review Applied</i> , 2018, 10, .	1.1	12
188	Interface barriers for flux motion in high-temperature superconducting superlattices. <i>Physical Review B</i> , 2004, 69, .	1.1	11
189	Substrate Surface Decoration With CeO_2 Nanoparticles: An Effective Method for Improving Flux Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3720-3723.	1.1	11
190	A Method to Determine the Strain and Nucleation Sites of Stacked Nano-Objects. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3422-3426.	0.9	11
191	Chemical synthesis of oriented ferromagnetic $\text{LaSr}_2\text{MnO}_4$ manganese oxide molecular sieve nanowires. <i>Chemical Communications</i> , 2012, 48, 6223.	2.2	11
192	Probing Nanoparticle Magnetism by Aberration Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2012, 18, 1362-1363.	0.2	11
193	Structural, magnetic, and superconducting properties of pulsed-laser-deposition-grown $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. <i>Physical Review B</i> , 2014, 89, .	1.1	11
194	Granular superconductivity and magnetic-field-driven recovery of macroscopic coherence in a cuprate/manganite multilayer. <i>Physical Review B</i> , 2016, 94, .	1.1	11
195	Interfacial-Redox-Induced Tuning of Superconductivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4741-4748.	4.0	11
196	Evidence for vortex tunnel dissipation in deoxygenated $\text{YBa}_2\text{Cu}_3\text{O}_{6.4}$ thin films. <i>Physical Review B</i> , 2001, 63, .	1.1	10
197	Order-controlled superconductivity at $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 2001, 63, .	1.1	10
198	Thermoelectric functionality of $\text{Ca}_3\text{Co}_4\text{O}_9$ epitaxial thin films on yttria-stabilized zirconia crystalline substrate. <i>Journal of Alloys and Compounds</i> , 2017, 710, 151-158.	2.8	10

#	ARTICLE	IF	CITATIONS
199	Localization of Yttrium Segregation within YSZ Grain Boundary Dislocation Cores. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800349.	0.8	10
200	INDUCED MAGNETISM AT OXIDE INTERFACES. International Journal of Modern Physics B, 2013, 27, 1330013.	1.0	9
201	Atomic Scale Studies of La/Sr Ordering in Colossal Magneto-resistant $\text{La}_{2-x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ Single Crystals. Microscopy and Microanalysis, 2014, 20, 1791-1797.	0.2	9
202	Doped-Iron Oxide Nanocrystals Synthesized by One-Step Aqueous Route for Multi-Imaging Purposes. Journal of Physical Chemistry C, 2019, 123, 7356-7365.	1.5	9
203	Insights into the formation of metal carbon nanocomposites for energy storage using hybrid NiFe layered double hydroxides as precursors. Chemical Science, 2020, 11, 7626-7633.	3.7	9
204	Engineering the spin conversion in graphene monolayer epitaxial structures. APL Materials, 2021, 9, . Direct landscape and electrical properties in solution-derived	2.2	9
205	LaNiO_3 and NdNiO_3 epitaxial	0.9	9
206	Preparation of high-quality few-layers bismuthene hexagons. Applied Materials Today, 2022, 26, 101360.	2.3	9
207	Sub-Ångstrom Resolution through Aberration-Corrected STEM. Microscopy and Microanalysis, 2003, 9, 926-927.	0.2	8
208	MBE fabrication of self-assembled Si and metal nanostructures on Si surfaces. Surface Science, 2006, 600, 3956-3963.	0.8	8
209	The effect of matrix and substrate on the coercivity and blocking temperature of self-assembled Ni nanoparticles. Journal of Applied Physics, 2008, 104, .	1.1	8
210	Electron Doping by Charge Transfer at $\text{LaFeO}_3/\text{Sm}_2\text{CuO}_4$ Epitaxial Interfaces. Advanced Materials, 2013, 25, 1468-1473.	11.1	8
211	Probing the meta-stability of oxide core/shell nanoparticle systems at atomic resolution. Chemical Engineering Journal, 2021, 405, 126820.	6.6	8
212	Continuous-Flow Synthesis of High-Quality Few-Layer Antimonene Hexagons. Advanced Functional Materials, 2021, 31, 2101616.	7.8	8
213	Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). Nano Letters, 2021, 21, 6923-6930.	4.5	8
214	Ground-Penetrating Radar for Inspection of In-Road Structures and Data Interpretation by Numerical Modeling. Journal of Construction Engineering and Management - ASCE, 2013, 139, 749-753.	2.0	7
215	Dielectric characterization of multiferroic magnetoelectric double-perovskite $\text{Y}(\text{Ni}_0.5\text{Mn}_0.5)\text{O}_3$ thin films. Applied Physics Letters, 2016, 109, .	1.5	7
216	3D elemental mapping with nanometer scale depth resolution via electron optical sectioning. Ultramicroscopy, 2017, 174, 27-34.	0.8	7

#	ARTICLE	IF	CITATIONS
217	Ferroionic inversion of spin polarization in a spin-memristor. <i>APL Materials</i> , 2021, 9, .	2.2	7
218	Photovoltaic sensing of a memristor based in LSMO/BTO/ITO ferroionic tunnel junctions. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
219	Effect of anisotropy on the vortex liquid dissipation in YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 572-575.	2.8	6
220	Chapter 2. Scanning Transmission Electron Microscopy. <i>RSC Nanoscience and Nanotechnology</i> , 2007, , 28-65.	0.2	6
221	Ferromagnetic resonance of ultrathin Co δ -Ag superlattices on Si(111). <i>Journal of Applied Physics</i> , 2008, 103, 07B527.	1.1	6
222	Imaging of Light Atoms in the Presence of Heavy Atomic Columns. <i>Microscopy and Microanalysis</i> , 2010, 16, 92-93.	0.2	6
223	Resistive switching in manganite/graphene hybrid planar nanostructures. <i>Applied Physics Letters</i> , 2014, 104, 102408.	1.5	6
224	Electronic and Magnetic Structure of LaSr ₂ Å—4 Manganese Oxide Molecular Sieve Nanowires. <i>Microscopy and Microanalysis</i> , 2014, 20, 760-766.	0.2	6
225	Interfacial memristors in Al δ LaNiO ₃ heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16960-16968.	1.3	6
226	Superconductivity and charge-carrier localization in ultrathin $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{La} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1.85 \langle \text{mml:mrow} \rangle \langle \text{mml:mfrac} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{O}$ thin films. <i>Physical Review B</i> , 2017, 95, .	1.85	6
227	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. <i>Nano Letters</i> , 2021, 21, 7781-7788.	4.5	6
228	Factors limiting ferroelectric field-effect doping in complex oxide heterostructures. <i>Physical Review Materials</i> , 2018, 2, .	0.9	6
229	Pure 2D vortex-glass phase transition with T _g = 0 K in deoxygenated YBa ₂ Cu ₃ O _{6.4} thin films. <i>Europhysics Letters</i> , 1999, 48, 679-685.	0.7	5
230	Tribological study of vanadium-based alloys ion implanted at low energy and high temperature. <i>Vacuum</i> , 2002, 67, 543-550.	1.6	5
231	Applications of aberration corrected scanning transmission electron microscopy and electron energy loss spectroscopy to thin oxide films and interfaces. <i>International Journal of Materials Research</i> , 2010, 101, 21-26.	0.1	5
232	Morphological evolution of InAs/InP quantum wires through aberration-corrected scanning transmission electron microscopy. <i>Nanotechnology</i> , 2010, 21, 325706.	1.3	5
233	Applications of Aberration-Corrected Scanning Transmission Electron Microscopy and Electron Energy Loss Spectroscopy to Complex Oxide Materials. , 2011, , 429-466.		5
234	Growth temperature control of the epitaxy, magnetism, and transport in SrTiO ₃ (001)/La _{0.5} Sr _{0.5} CoO ₃ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011, 29, .	0.9	5

#	ARTICLE	IF	CITATIONS
235	High On/Off Ratio Memristive Switching of Manganite/Cuprate Bilayer by Interfacial Magnetoelectricity. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600086.	1.9	5
236	Photodiodes based in La _{0.7} Sr _{0.3} MnO ₃ /single layer MoS ₂ hybrid vertical heterostructures. <i>2D Materials</i> , 2017, 4, 034002.	2.0	5
237	Chain oxygen disorder in deoxygenated YBa ₂ Cu ₃ O _{7-x} thin films induced by light ion irradiation. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 576-579.	2.8	4
238	Transmission Electron Microscopy: Overview and Challenges. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	4
239	The effect of strain and strain symmetry on the charge-order transition in Bi _{0.4} Ca _{0.6} MnO ₃ films. <i>Phase Transitions</i> , 2008, 81, 717-727.	0.6	4
240	Experimental and Simulated Strain Field Maps in Stacked Quantum Wires. <i>Microscopy and Microanalysis</i> , 2008, 14, 344-345.	0.2	4
241	Pyramid-like nanostructures created by Si homoepitaxy on Si(001). <i>Materials Science in Semiconductor Processing</i> , 2009, 12, 52-56.	1.9	4
242	Tuning the properties of Ge-quantum dots superlattices in amorphous silica matrix through deposition conditions. <i>Journal of Applied Physics</i> , 2012, 111, 074316.	1.1	4
243	Understanding the Surface Structure of LiMn ₂ O ₄ Spinel Cathodes with Aberration-Corrected HAADF STEM and EELS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1375-1376.	0.2	4
244	X-ray absorption and x-ray magnetic circular dichroism in bulk and thin films of ferrimagnetic GdTiO ₃ . <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
245	Letter to the Editor: Limitations to the Measurement of Oxygen Concentrations by HRTEM Imposed by Surface Roughness. <i>Microscopy and Microanalysis</i> , 2005, 11, 111-113.	0.2	3
246	Formation of pyramid-like nanostructures in MBE-grown Si films on Si(001). <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 731-738.	1.1	3
247	Structural, magnetic and electronic properties of pulsed-laser-deposition grown SrFeO _{3-x} thin films and SrFeO _{3-x} /La _{2/3} Ca _{1/3} MnO ₃ multilayers. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 495601.	0.7	3
248	Effect of different buffer layers on the quality of InGaN layers grown on Si. <i>AIP Advances</i> , 2018, 8, 105026.	0.6	3
249	Disorder and damage effects in SrRuO ₃ thin films. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 938-939.	1.3	2
250	High-resolution and energy-filtered transmission electron microscopy of YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ superlattices. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 558-561.	2.8	2
251	Titanium segregation mechanism in deformed vanadium-titanium alloys. <i>Philosophical Magazine Letters</i> , 2001, 81, 259-264.	0.5	2
252	Artificially induced reduction of the dissipation anisotropy in high-temperature superconductors. <i>Applied Physics Letters</i> , 2002, 80, 3994-3996.	1.5	2

#	ARTICLE	IF	CITATIONS
253	Spectroscopic Imaging of Oxide Interfaces with Aberration Corrected Probes. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.2	2
254	Strain-Enhanced Ionic Conductivity. <i>Microscopy and Microanalysis</i> , 2010, 16, 100-101.	0.2	2
255	Interface Structure-Property Relations Through Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2010, 16, 1420-1421.	0.2	2
256	Exploring semiconductor quantum dots and wires by high resolution electron microscopy. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012004.	0.3	2
257	Aberration corrected scanning transmission electron microscopy and electron energy loss spectroscopy studies of epitaxial Fe/MgO/(001)Ge heterostructures. <i>Journal of Materials Science</i> , 2011, 46, 4157-4161.	1.7	2
258	Mapping Chemical Disorder and Ferroelectric Distortions in the Double Perovskite Compound Sr _{2-x} Gd _x MnTiO ₆ by Atomic Resolution Electron Microscopy and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 731-739.	0.2	2
259	Oxygen Vacancy Ordering: a Degree of Freedom that can Control the Structural, Electronic and Magnetic Properties of Transition-Metal Oxide Films. <i>Microscopy and Microanalysis</i> , 2014, 20, 556-557.	0.2	2
260	Atomic-resolution studies of epitaxial strain release mechanisms in La _{1.85} Sr _{0.15} CuO ₄ /La _{0.67} Ca _{0.33} MnO ₃ superlattices. <i>Physical Review B</i> , 2015, 91, .	1.1	2
261	Investigation of the Out of Plane Component of the Magnetization of [Fe ₇₂ Ga ₂₈ (xÅnm)/Tb ₃₃ Fe ₆₇ (50Ånm)] ₂ Multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800183.	0.8	2
262	Nanoscale Structure/Property Correlation Through Aberration-Corrected Stem And Theory. <i>Materials Research Society Symposia Proceedings</i> , 2002, 738, 111.	0.1	1
263	Correlation between transport, optical and structural properties in AlGaN/GaN heterostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 93, 64-67.	1.7	1
264	Enhanced Current Transport at Grain Boundaries in High-Tc Superconductors.. <i>ChemInform</i> , 2005, 36, no.	0.1	1
265	Electronic Properties of Complex Oxide Interfaces. <i>Microscopy and Microanalysis</i> , 2006, 12, 1140-1141.	0.2	1
266	EELS imaging of oxygen vacancy ordering. <i>Microscopy and Microanalysis</i> , 2008, 14, 1354-1355.	0.2	1
267	Oxide Interfaces Under the Electron Microscope. <i>Microscopy and Microanalysis</i> , 2008, 14, 1346-1347.	0.2	1
268	Uncompensated moments in antiferromagnets: Origin, properties and role in exchange bias. , 2010, .		1
269	Influence of RF-sputtering power on formation of vertically stacked Si _{1x} Ge _x nanocrystals between ultra-thin amorphous Al ₂ O ₃ layers: structural and photoluminescence properties. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 385301.	1.3	1
270	Atomic and Electronic Structure of $\text{Fe}_2\text{O}_3/\text{Cu}_2\text{O}$ Heterostructured Nanocrystals. <i>Microscopy and Microanalysis</i> , 2014, 20, 410-411.	0.2	1

#	ARTICLE	IF	CITATIONS
271	Magnetically controlled space charge capacitance at $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3/\text{Sr}_x\text{La}_{1-x}\text{O}_3/\text{TiO}_2$ interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2243-2253.		
272	Magnetism in epitaxial PrCoO_3 and $\text{Pr}_{0.7}\text{Y}_{0.3}\text{CoO}_3$ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 654-659.	1.0	1
273	Structure Characterization of Epitaxial Strain Relaxation in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices. <i>Materials Research Society Symposia Proceedings</i> , 2000, 619, 185.	0.1	0
274	Dissipation and anisotropy in ultrathin $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattices. <i>Materials Research Society Symposia Proceedings</i> , 2000, 659, 1.	0.1	0
275	Imaging of Materials through Aberration Corrected STEM. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	0
276	Nanostructure Functionality through Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	0
277	Low Energy-Loss Spectroscopic Studies of Grain Boundary Cores in Complex Oxides.. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	0
278	Three Dimensional Characterization of Interfaces using Aberration-corrected STEM. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	0
279	Large magnetoresistance in oxide based ferromagnet / superconductor spin switches. <i>Materials Research Society Symposia Proceedings</i> , 2005, 887, 1.	0.1	0
280	Atomic-Scale Studies of Complex Oxide Interfaces Using Aberration-Corrected Z-contrast Imaging and EELS. <i>Microscopy and Microanalysis</i> , 2006, 12, 112-113.	0.2	0
281	Imaging Electronic Phase Separation in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ Using Electron Nano-Diffraction. <i>Microscopy and Microanalysis</i> , 2006, 12, 580-581.	0.2	0
282	Aberration-Corrected STEM - More than just Higher Resolution. <i>Microscopy and Microanalysis</i> , 2006, 12, 132-133.	0.2	0
283	Image Formation Based on Atomic Resolution Core-loss Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2006, 12, 1138-1139.	0.2	0
284	Microstructural Evolution of CeO_2 Nano-Island Films and Its Influence on Physical Properties of $\text{CeO}_2/\text{YBa}_2\text{Cu}_3\text{O}_7$ Multilayers. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.2	0
285	Influence of Au electrodes on the properties of $\text{SrTiO}_3/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{Au}$ magnetic tunnel junctions studied by aberration-corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2008, 14, 1392-1393.	0.2	0
286	Atomic Resolution Mapping of Inequivalent O Sites in Complex Oxides. <i>Microscopy and Microanalysis</i> , 2009, 15, 434-435.	0.2	0
287	Structural and Chemical Details of $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ Thin Films. <i>Microscopy and Microanalysis</i> , 2009, 15, 440-441.	0.2	0
288	Direct Observation of Nanoscale Phase Separation in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ Using Scanning Electron Nanodiffraction. <i>Microscopy and Microanalysis</i> , 2009, 15, 750-751.	0.2	0

#	ARTICLE	IF	CITATIONS
289	Insights Into Energy Materials Through Aberration-Corrected STEM. Microscopy and Microanalysis, 2012, 18, 1354-1355.	0.2	0
290	Atomic Resolution Quantification of Chemical Ordering in a Layered Perovskite. Microscopy and Microanalysis, 2012, 18, 1466-1467.	0.2	0
291	Simulation Of Electron Energy Loss Near Edge Structure At Atomic Resolution For Aberration Corrected STEM. Microscopy and Microanalysis, 2012, 18, 1490-1491.	0.2	0
292	Study of Oxygen Distortions in Titanate - Manganite Interfaces by Aberration Corrected STEM-EELS. Microscopy and Microanalysis, 2014, 20, 54-55.	0.2	0
293	Atomic-Resolution Monitoring of Structural Phase Transition in Bi-magnetic Core/Shell Oxide Nanoparticles. Microscopy and Microanalysis, 2014, 20, 106-107.	0.2	0
294	Optical Sectioning with Atomic Resolution Spectroscopy. Microscopy and Microanalysis, 2014, 20, 584-585.	0.2	0
295	Switching magnetic order at an Fe/BaTiO ₃ interface on and off: Impact on hybrid magnetic-ferroelectric tunnel junctions. , 2015, ,		0
296	Artificial Multiferroics: Electrical Switching of Magnetization in the Artificial Multiferroic CoFeB/BaTiO ₃ (Adv. Electron. Mater. 7/2016). Advanced Electronic Materials, 2016, 2, .	2.6	0
297	Atomic Resolution STEM-EELS Studies of Defects and Local Structural Distortions in Oxide Interfaces. Microscopy and Microanalysis, 2017, 23, 372-373.	0.2	0
298	High Resolution Studies of Oxide Multiferroic Interfaces in the Aberration-Corrected STEM. Microscopy and Microanalysis, 2017, 23, 1592-1593.	0.2	0
299	Interface Magnetism in La _{0.7} Ca _{0.3} MnO ₃ /PrBa ₂ Cu ₃ O ₇ Epitaxial Heterostructures. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800265.	0.8	0
300	Sub-Ångstrom and 3-dimensional STEM for semiconductor research. Springer Proceedings in Physics, 2005, , 459-462.	0.1	0
301	Structural Origin of Enhanced Luminescence Efficiency of Antimony Irradiated InAs Quantum Dots. Advanced Science Letters, 2011, 4, 3776-3778.	0.2	0
302	Scanning transmission electron microscopy of oxides. , 2012, , 123-156.		0
303	Chapter 2. Scanning Transmission Electron Microscopy. RSC Nanoscience and Nanotechnology, 2015, , 30-79.	0.2	0
304	Prospects for single atom location and identification with aberration-corrected STEM. , 2018, , 523-532.		0
305	TEM characterization of InAs/GaAs quantum dots capped by a GaSb/GaAs layer. , 2008, , 45-46.		0
306	Defects in oxide crystals: nanoscale and interfacial effects. , 2022, , 199-229.		0