

MarÃ- a Varela del Arco

List of Publications by Year in descending order

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306
papers

13,167
citations

18436

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316
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316
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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Photovoltaic sensing of a memristor based in LSMO/BTO/ITO ferroionic tunnel junctions. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
3	Preparation of high-quality few-layers bismuthene hexagons. <i>Applied Materials Today</i> , 2022, 26, 101360.	2.3	9
4	Defects in oxide crystals: nanoscale and interfacial effects. , 2022, , 199-229.		0
5	Probing the meta-stability of oxide core/shell nanoparticle systems at atomic resolution. <i>Chemical Engineering Journal</i> , 2021, 405, 126820.	6.6	8
6	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, .		4
7	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
8	Ferroionic inversion of spin polarization in a spin-memristor. <i>APL Materials</i> , 2021, 9, .	2.2	7
9	Continuous-Flow Synthesis of High-Quality Few-Layer Antimonene Hexagons. <i>Advanced Functional Materials</i> , 2021, 31, 2101616.	7.8	8
10	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
11	Engineering the spin conversion in graphene monolayer epitaxial structures. <i>APL Materials</i> , 2021, 9, .	2.2	9
12	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. <i>Nano Letters</i> , 2021, 21, 7781-7788.	4.5	6
13	Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). <i>Nano Letters</i> , 2021, 21, 6923-6930.	4.5	8
14	Interfacial-Redox-Induced Tuning of Superconductivity in $YBa_2Cu_3O_{7-x}$. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4741-4748.	4.0	11
15	Unveiling the oxidation behavior of liquid-phase exfoliated antimony nanosheets. <i>2D Materials</i> , 2020, 7, 025039.	2.0	33
16	Insights into the formation of metal carbon nanocomposites for energy storage using hybrid NiFe layered double hydroxides as precursors. <i>Chemical Science</i> , 2020, 11, 7626-7633.	3.7	9
17	Quasiparticle tunnel electroresistance in superconducting junctions. <i>Nature Communications</i> , 2020, 11, 658.	5.8	19
18	Controlled Sign Reversal of Electroresistance in Oxide Tunnel Junctions by Electrochemical-Ferroelectric Coupling. <i>Physical Review Letters</i> , 2020, 125, 266802.	2.9	15

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19	Giant anisotropic magnetoresistance in oxygen-vacancy-ordered epitaxial $\text{La}_{1-x}\text{O}_3/\text{Fe}_3\text{O}_4$ thin films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	21
20	Giant Enhancement in the Supercapacitance of NiFe/Graphene Nanocomposites Induced by a Magnetic Field. <i>Advanced Materials</i> , 2019, 31, e1900189.	11.1	21
21	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019, 10, 509.	5.8	61
22	Doped-Iron Oxide Nanocrystals Synthesized by One-Step Aqueous Route for Multi-Imaging Purposes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7356-7365.	1.5	9
23	Controlling the strength of ferromagnetic order in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. <i>Physical Review Applied</i> , 2018, 10, 044002.	1.1	12
24	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
25	Material structure, properties, and dynamics through scanning transmission electron microscopy. <i>Journal of Analytical Science and Technology</i> , 2018, 9, 11.	1.0	30
26	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
27	Effect of different buffer layers on the quality of InGaN layers grown on Si. <i>AIP Advances</i> , 2018, 8, 105026.	0.6	3
28	High-temperature Magnetodielectric BiFeO_3 Thin Films with Checkerboard-Ordered Oxygen. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
29	A Living/Dead Magnetic Layer at the Surface of Ferrimagnetic DyTiO_3 Thin Films. <i>Advanced Materials</i> , 2018, 30, e1707489.	11.1	15
30	Investigation of the Out of Plane Component of the Magnetization of $[\text{Fe}_{72}\text{Ga}_{28}(\text{x}\% \text{nm})/\text{Tb}_{33}\text{Fe}_{67}(50\% \text{nm})]_2$ Multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800183.	0.8	2
31	Localization of Yttrium Segregation within YSZ Grain Boundary Dislocation Cores. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800349.	0.8	10
32	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. <i>Nano Letters</i> , 2018, 18, 5364-5372.	4.5	60
33	Interface Magnetism in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Epitaxial Heterostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800265.	0.8	0
34	Clustering analysis strategies for electron energy loss spectroscopy (EELS). <i>Ultramicroscopy</i> , 2018, 185, 42-48.	0.8	18
35	Selection of landscape and electrical properties in solution-derived LaNi_3O_7 and NdNi_3O_7 thin films. <i>Physical Review Applied</i> , 2018, 10, 044002.	0.9	9
36	Factors limiting ferroelectric field-effect doping in complex oxide heterostructures. <i>Physical Review Materials</i> , 2018, 2, .	0.9	6

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37	Perpendicular magnetic anisotropy via strain-engineered oxygen vacancy ordering in epitaxial $L_{1-x}S_x$ $L_{1-x}S_x$ $L_{1-x}S_x$	0.9	28
38	Prospects for single atom location and identification with aberration-corrected STEM. , 2018, , 523-532.		0
39	Applications of STEM-EELS to complex oxides. Materials Science in Semiconductor Processing, 2017, 65, 49-63.	1.9	35
40	Resonant electron tunnelling assisted by charged domain walls in multiferroic tunnel junctions. Nature Nanotechnology, 2017, 12, 655-662.	15.6	92
41	Engineering Large Anisotropic Magnetoresistance in $La_{0.7}Sr_{0.3}MnO_3$ Films at Room Temperature. Advanced Functional Materials, 2017, 27, 1700664.	7.8	39
42	Photodiodes based in $La_{0.7}Sr_{0.3}MnO_3$ /single layer MoS_2 hybrid vertical heterostructures. 2D Materials, 2017, 4, 034002.	2.0	5
43	Interfacial memristors in $Al_2O_3/LaNiO_3$ heterostructures. Physical Chemistry Chemical Physics, 2017, 19, 16960-16968.	1.3	6
44	Thermoelectric functionality of $Ca_3Co_4O_9$ epitaxial thin films on yttria-stabilized zirconia crystalline substrate. Journal of Alloys and Compounds, 2017, 710, 151-158.	2.8	10
45	<i>In operando</i> evidence of deoxygenation in ionic liquid gating of $YBa_2Cu_3O_{7-x}$. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 215-220.	3.3	51
46	3D elemental mapping with nanometer scale depth resolution via electron optical sectioning. Ultramicroscopy, 2017, 174, 27-34.	0.8	7
47	Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. Journal of Physical Chemistry C, 2017, 121, 24809-24815.	1.5	23
48	Glass-Like Through-Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial $La_{0.5}Sr_{0.5}CoO_{3-\delta}$. Advanced Functional Materials, 2017, 27, 1704233.	7.8	24
49	Superconductivity and charge-carrier localization in ultrathin $La_{1-x}Sr_x$. Physical Review B, 2017, 95, .		1.85
50	Modified magnetic anisotropy at $LaCoO_3/La_{0.7}Sr_{0.3}MnO_3$ interfaces. APL Materials, 2017, 5, .	2.2	12
51	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
52	Enhanced figure of merit in nanostructured $(Bi,Sb)_2Te_3$ with optimized composition, prepared by a straightforward arc-melting procedure. Scientific Reports, 2017, 7, 6277.	1.6	41
53	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
54	Atomic Resolution STEM-EELS Studies of Defects and Local Structural Distortions in Oxide Interfaces. Microscopy and Microanalysis, 2017, 23, 372-373.	0.2	0

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55	Surface Reconstruction in Li-Rich Layered Oxides of Li-Ion Batteries. Chemistry of Materials, 2017, 29, 7668-7674.	3.2	45
56	Electric and Mechanical Switching of Ferroelectric and Resistive States in Semiconducting BaTiO ₃ Films on Silicon. Small, 2017, 13, 1701614.	5.2	28
57	Structural, magnetic and electronic properties of pulsed-laser-deposition grown SrFeO ₃ thin films and SrFeO ₃ /La _{2/3} Ca _{1/3} MnO ₃ multilayers. Journal of Physics Condensed Matter, 2017, 29, 495601.	0.7	3
58	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. Journal of the American Chemical Society, 2017, 139, 10432-10440.	6.6	232
59	High Resolution Studies of Oxide Multiferroic Interfaces in the Aberration-Corrected STEM. Microscopy and Microanalysis, 2017, 23, 1592-1593.	0.2	0
60	Origin of the magnetic transition at 100 K in Fe ₂ O ₃ nanoparticles studied by x-ray absorption fine structure spectroscopy. Journal of Physics Condensed Matter, 2017, 29, 485701.	0.7	13
61	High On/Off Ratio Memristive Switching of Manganite/Cuprate Bilayer by Interfacial Magnetoelectricity. Advanced Materials Interfaces, 2016, 3, 1600086.	1.9	5
62	Magnetically controlled space charge capacitance at La _{1-x} Sr _x MnO ₃ /Sr _x La _{1-x} TiO ₃ interfaces. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2243-2253.	0.5	0
63	Electrical Switching of Magnetization in the Artificial Multiferroic CoFeB/BaTiO ₃ . Advanced Electronic Materials, 2016, 2, 1600085.	2.6	25
64	Dielectric characterization of multiferroic magnetoelectric double-perovskite Y(Ni _{0.5} Mn _{0.5})O ₃ thin films. Applied Physics Letters, 2016, 109, .	1.5	7
65	Revealing the Reconstructed Surface of Li[Mn ₂]O ₄ . Nano Letters, 2016, 16, 2899-2906.	4.5	71
66	Emerging Diluted Ferromagnetism in High-T _c Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295.	5.6	41
67	Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO ₂ over Nanostructured Pd@Nb ₂ O ₅ . Advanced Science, 2016, 3, 1600189.	5.6	133
68	Few-Layer Antimonene by Liquid-Phase Exfoliation. Angewandte Chemie - International Edition, 2016, 55, 14345-14349.	7.2	346
69	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
70	X-ray absorption study of the ferromagnetic Cu moment at the YBa ₂ Cu ₇ O ₇ /La ₂ CuO ₇ interface. Physical Review B, 2016, 93, .	0.5	0
71	Granular superconductivity and magnetic-field-driven recovery of macroscopic coherence in a cuprate/manganite multilayer. Physical Review B, 2016, 94, .	1.1	11
72	Noncovalent Functionalization of Black Phosphorus. Angewandte Chemie - International Edition, 2016, 55, 14557-14562.	7.2	199

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73	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
74	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492.	6.5	122
75	Alkoxide-intercalated NiFe-layered double hydroxides magnetic nanosheets as efficient water oxidation electrocatalysts. Inorganic Chemistry Frontiers, 2016, 3, 478-487.	3.0	58
76	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	2
77	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. Physical Review B, 2015, 91, .	1.1	2
78	Paving the way to nanoionics: atomic origin of barriers for ionic transport through interfaces. Scientific Reports, 2015, 5, 17229.	1.6	35
79	Understanding the Surface Structure of LiMn ₂ O ₄ Spinel Cathodes with Aberration-Corrected HAADF STEM and EELS. Microscopy and Microanalysis, 2015, 21, 1375-1376.	0.2	4
80	Insight into spin transport in oxide heterostructures from interface-resolved magnetic mapping. Nature Communications, 2015, 6, 6306.	5.8	34
81	Engineering two-dimensional superconductivity and Rashba spin-orbit coupling in LaAlO ₃ /SrTiO ₃ quantum wells by selective orbital occupancy. Nature Communications, 2015, 6, 6028.	5.8	144
82	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
83	Synthetic magnetoelectric coupling in a nanocomposite multiferroic. Scientific Reports, 2015, 5, 9089.	1.6	21
84	Bismuth labeling for the CT assessment of local administration of magnetic nanoparticles. Nanotechnology, 2015, 26, 135101.	1.3	17
85	Stimuli-responsive hybrid materials: breathing in magnetic layered double hydroxides induced by a thermoresponsive molecule. Chemical Science, 2015, 6, 1949-1958.	3.7	40
86	Nanocrystalline Ferroelectric BiFeO ₃ Thin Films by Low-Temperature Atomic Layer Deposition. Chemistry of Materials, 2015, 27, 6322-6328.	3.2	24
87	Switching magnetic order at an Fe/BaTiO ₃ interface on and off: Impact on hybrid magnetic-ferroelectric tunnel junctions. , 2015, , .		0
88	Conducting interfaces between amorphous oxide layers and SrTiO ₃ (110) and SrTiO ₃ (111). Solid State Ionics, 2015, 281, 68-72.	1.3	13
89	Chapter 2. Scanning Transmission Electron Microscopy. RSC Nanoscience and Nanotechnology, 2015, , 30-79.	0.2	0
90	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. Microscopy and Microanalysis, 2014, 20, 731-739.	0.2	2

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91	Structural, magnetic, and superconducting properties of pulsed-laser-deposition-grown $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. Physical Review Letters, 2014, 113, 156802.	2.9	38
92	Two-Dimensional Electron Gases at $\text{LaAlO}_3/\text{SrTiO}_3$ Interfaces: Orbital Symmetry and Hierarchy Engineered by Crystal Orientation. Physical Review Letters, 2014, 113, 156802.	0.2	9
93	Atomic Scale Studies of La/Sr Ordering in Colossal Magnetoresistant $\text{La}_{2-x}\text{Sr}_x\text{MnO}_7$ Single Crystals. Microscopy and Microanalysis, 2014, 20, 1791-1797.	5.8	179
94	Electric control of magnetism at the Fe/BaTiO ₃ interface. Nature Communications, 2014, 5, 3404.	1.5	6
95	Resistive switching in manganite/graphene hybrid planar nanostructures. Applied Physics Letters, 2014, 104, 102408.	0.2	38
96	Oxide Wizard: An EELS Application to Characterize the White Lines of Transition Metal Edges. Microscopy and Microanalysis, 2014, 20, 698-705.	2.9	33
97	Competition between Covalent Bonding and Charge Transfer at Complex-Oxide Interfaces. Physical Review Letters, 2014, 112, 196802.	2.7	116
98	Alkoxide-intercalated CoFe-layered double hydroxides as precursors of colloidal nanosheet suspensions: structural, magnetic and electrochemical properties. Journal of Materials Chemistry C, 2014, 2, 3723-3731.	11.1	23
99	Signatures of a Two-Dimensional Ferromagnetic Electron Gas at the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ Interface Arising From Orbital Reconstruction. Advanced Materials, 2014, 26, 7516-7520.	5.2	19
100	Fe ₂ O ₃ /Cu ₂ O heterostructured nanocrystals. Journal of Materials Chemistry A, 2014, 2, 8525-8533.	1.5	82
101	Modulation of Magnetic Heating via Dipolar Magnetic Interactions in Monodisperse and Crystalline Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19985-19994.	0.2	13
102	Insulating Ferromagnetic LaCoO_3 A Phase Induced by Ordering of Oxygen Vacancies. Physical Review Letters, 2014, 112, .	5.8	59
103	Oxygen Octahedral Distortions in $\text{LaMO}_3/\text{SrTiO}_3$ Superlattices. Microscopy and Microanalysis, 2014, 20, 825-831.	0.2	12
104	Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215.	0.2	0
105	Simulation of Probe Position-Dependent Electron Energy-Loss Fine Structure. Microscopy and Microanalysis, 2014, 20, 784-797.	0.2	0
106	Study of Oxygen Distortions in Titanate - Manganite Interfaces by Aberration Corrected STEM-EELS. Microscopy and Microanalysis, 2014, 20, 54-55.	0.2	0
107	Atomic-Resolution Monitoring of Structural Phase Transition in Bi-magnetic Core/Shell Oxide Nanoparticles. Microscopy and Microanalysis, 2014, 20, 106-107.	0.2	1
108	Atomic and Electronic Structure of $\text{Fe}_2\text{O}_3/\text{Cu}_2\text{O}$ Heterostructured Nanocrystals. Microscopy and Microanalysis, 2014, 20, 410-411.		

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109	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
110	Optical Sectioning with Atomic Resolution Spectroscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 584-585.	0.2	0
111	Electronic and Magnetic Structure of LaSr ₂ —4 Manganese Oxide Molecular Sieve Nanowires. <i>Microscopy and Microanalysis</i> , 2014, 20, 760-766.	0.2	6
112	INDUCED MAGNETISM AT OXIDE INTERFACES. <i>International Journal of Modern Physics B</i> , 2013, 27, 1330013.	1.0	9
113	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
114	Tetragonal phase of epitaxial room-temperature antiferromagnet CuMnAs. <i>Nature Communications</i> , 2013, 4, 2322.	5.8	123
115	Influence of RF-sputtering power on formation of vertically stacked Si _{1-x} 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
116	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	5.8	160
117	Lattice mismatch accommodation via oxygen vacancy ordering in epitaxial La _{0.5} Sr _{0.5} CoO _{3-δ} thin films. <i>APL Materials</i> , 2013, 1, .	2.2	124
118	Electron Doping by Charge Transfer at LaFeO ₃ /Sm ₂ CuO ₄ Epitaxial Interfaces. <i>Advanced Materials</i> , 2013, 25, 1468-1473.	11.1	8
119	Misfit accommodation in oxide thin film heterostructures. <i>Acta Materialia</i> , 2013, 61, 2725-2733.	3.8	42
120	Storing magnetic information in IrMn/MgO/Ta tunnel junctions via field-cooling. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	56
121	Validation of terrestrial laser scanning and photogrammetry techniques for the measurement of vertical underclearance and beam geometry in structural inspection of bridges. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 784-794.	2.5	76
122	Strain-driven broken twin boundary coherence in YBa ₂ Cu ₃ O _{7-δ} nanocomposite thin films. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	39
123	Oxide interfaces with enhanced ion conductivity. <i>MRS Bulletin</i> , 2013, 38, 1056-1063.	1.7	37
124	Ground-Penetrating Radar for Inspection of In-Road Structures and Data Interpretation by Numerical Modeling. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 749-753.	2.0	7
125	CuO	1.1	10
126	Role of elastic bending stress on magnetism of a manganite thin film studied by polarized neutron reflectometry. <i>Physical Review B</i> , 2012, 85, .	1.1	19

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127	Tuning the properties of Ge-quantum dots superlattices in amorphous silica matrix through deposition conditions. Journal of Applied Physics, 2012, 111, 074316. Pulsed laser deposition growth of heteroepitaxial YBaCuO thin films on SiO ₂ /Si substrate. Applied Physics Letters, 2012, 101, 072101.	1.1	4
128	Magnetic Nonuniformity and Thermal Hysteresis of Magnetism in a Manganite Thin Film. Physical Review Letters, 2012, 108, 077207.	1.1	34
129	Insights Into Energy Materials Through Aberration-Corrected STEM. Microscopy and Microanalysis, 2012, 18, 1354-1355.	2.9	47
130	Atomic Resolution Quantification of Chemical Ordering in a Layered Perovskite. Microscopy and Microanalysis, 2012, 18, 1466-1467.	0.2	0
131	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
132	Simulation of Spatially Resolved Electron Energy Loss Near-Edge Structure for Scanning Transmission Electron Microscopy. Physical Review Letters, 2012, 109, 246101.	2.9	21
133	Chemical synthesis of oriented ferromagnetic LaSr ₂ À—4 manganese oxide molecular sieve nanowires. Chemical Communications, 2012, 48, 6223.	2.2	11
134	Improved thermal stability of oxide-supported naked gold nanoparticles by ligand-assisted pinning. Nanoscale, 2012, 4, 2278.	1.1	24
135	STEM-EELS imaging of complex oxides and interfaces. MRS Bulletin, 2012, 37, 29-35.	2.8	14
136	Low Temperature Epitaxial Oxide Ultrathin Films and Nanostructures by Atomic Layer Deposition. Chemistry of Materials, 2012, 24, 3732-3737.	1.7	43
137	Probing Nanoparticle Magnetism by Aberration Corrected STEM-EELS. Microscopy and Microanalysis, 2012, 18, 1362-1363.	3.2	40
138	Surfactant Organic Molecules Restore Magnetism in Metal-Oxide Nanoparticle Surfaces. Nano Letters, 2012, 12, 2499-2503.	0.2	11
139	Direct Measurement of Tunneling Transport in La _{0.7} Ca _{0.3} MnO ₃ . Physical Review Letters, 2012, 109, 077201.	4.5	132
140	Nanoscale strain-induced pair suppression as a vortex-pinning mechanism in high-temperature superconductors. Nature Materials, 2012, 11, 329-336.	1.1	19
141	Magnetoimpedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2012, 86, .	13.3	298
142	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. Advanced Materials, 2012, 24, 3952-3957.	1.1	80
143	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. Advanced Materials, 2012, 24, 3952-3957.	11.1	132

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145	Scanning transmission electron microscopy of oxides. , 2012, , 123-156.		0
146	Electronic and Magnetic Reconstructions in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ A Case of Enhanced Interlayer Coupling Controlled by the Interface. Physical Review Letters, 2011, 106, 147205.	2.9	88
147	Correlated Optical Measurements and Plasmon Mapping of Silver Nanorods. Nano Letters, 2011, 11, 3482-3488.	4.5	125
148	Compositional tuning of the strain-induced structural phase transition and of ferromagnetism in $\text{Bi}_{1-x}\text{Ba}_x\text{FeO}_{3-\delta}$. Journal of Materials Research, 2011, 26, 1326-1331.	1.2	17
149	A phase transition close to room temperature in BiFeO_3 thin films. Journal of Physics Condensed Matter, 2011, 23, 342202.	0.7	49
150	Applications of Aberration-Corrected Scanning Transmission Electron Microscopy and Electron Energy Loss Spectroscopy to Complex Oxide Materials. , 2011, , 429-466.		5
151	Single Crystalline $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Molecular Sieve Nanowires with High Temperature Ferromagnetism. Journal of the American Chemical Society, 2011, 133, 4053-4061.	6.6	22
152	Optical study of strained ultrathin films of strongly correlated LaNiO_3 . Physical Review B, 2011, 83, .	1.1	54
153	Sharp Fe/MgO/Ge(001) epitaxial heterostructures for tunneling junctions. Journal of Applied Physics, 2011, 109, .	1.1	19
154	Seeing oxygen disorder in YSZ/SrTiO_3 colossal ionic conductor heterostructures using EELS. EPJ Applied Physics, 2011, 54, 33507.	0.3	52
155	Atomic-Resolution Imaging of Spin-State Superlattices in Nanopockets within Cobaltite Thin Films. Nano Letters, 2011, 11, 973-976.	4.5	90
156	Aberration corrected scanning transmission electron microscopy and electron energy loss spectroscopy studies of epitaxial $\text{Fe/MgO}/(001)\text{Ge}$ heterostructures. Journal of Materials Science, 2011, 46, 4157-4161.	1.7	2
157	Formation of pyramid-like nanostructures in MBE-grown Si films on Si(001). Applied Physics A: Materials Science and Processing, 2011, 102, 731-738.	1.1	3
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