

Brahim Dkhil

List of Publications by Year in descending order

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267
papers

14,353
citations

18887

64
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29333

108
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all docs

284
docs citations

284
times ranked

14262
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of pure BiFeO ₃ and Bi ₂ Fe ₄ O ₉ nanostructures with enhanced photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2022, 33, 2518-2533.	1.1	5
2	Emerging spin-phonon coupling through cross-talk of two magnetic sublattices. Nature Communications, 2022, 13, 443.	5.8	20
3	Hidden phases with neuromorphic responses and highly enhanced piezoelectricity in an antiferroelectric prototype. Physical Review B, 2022, 105, .	1.1	8
4	Thermal and Electron Plasma Effects on Phase Separation Dynamics Induced by Ultrashort Laser Pulses. Crystals, 2022, 12, 496.	1.0	5
5	Effect of Zn Substitution on the Structural, Optical Properties and Photocatalytic Activity of BiFeO ₃ Nanopowders. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	4
6	Ferroelectric polymers for neuromorphic computing. Applied Physics Reviews, 2022, 9, .	5.5	31
7	Strain engineering of the magnetic anisotropy and magnetic moment in NdFeO ₃ epitaxial thin films. Physical Review Materials, 2022, 6, .	1.1	0
8	Expression of Concern: Nanocrystalline Ni _x Co _(0.5-x) Zn _{0.5} Fe ₂ O ₄ ferrites: fabrication through coprecipitation route with enhanced structural, magnetic and photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2021, 32, 2651-2651.	1.1	0
9	Expression of Concern: Synthesis, structural, optical, morphological and magnetic characterization of copper substituted nickel ferrite (Cu _x Ni _{1-x} Fe ₂ O ₄) through co-precipitation method. Journal of Materials Science: Materials in Electronics, 2021, 32, 2650-2650.	1.1	0
10	Enhanced electrocaloric effect in BaSn/TiO ₃ ceramics by addition of CuO. Journal of Alloys and Compounds, 2021, 851, 156772.	2.8	8
11	New approach for designing bulk multiferroic composites made of two perovskite oxides with enhanced direct magnetoelectric coupling. Scripta Materialia, 2021, 194, 113673.	2.6	4
12	Ultrafast Neuromorphic Dynamics Using Hidden Phases in the Prototype of Relaxor Ferroelectrics. Physical Review Letters, 2021, 126, 027602.	2.9	27
13	Surface and bulk ferroelectric phase transition in super-tetragonal BiFeO ₃ thin films. Physical Review Materials, 2021, 5, .	1.1	0
14	Ferroelectric Synaptic Transistor Network for Associative Memory. Advanced Electronic Materials, 2021, 7, 2001276.	2.6	52
15	Electronic interactions between graphene and cobaltite thin film La _{0.7} Sr _{0.3} CoO ₃ and its magnetic consequences. Surfaces and Interfaces, 2021, 23, 100919.	1.5	0
16	Doping-induced Polar Defects Improve the Electrocaloric Performance of Ba _{0.9} Bi _{0.1} FeO ₃ . Physical Review Applied, 2021, 16, .	1.5	7
17	Optical absorption by design in a ferroelectric: co-doping in BaTiO ₃ . Journal of Materials Chemistry C, 2021, 10, 227-234.	2.7	8
18	Anti-polar state in BiFeO ₃ /NdFeO ₃ superlattices. Journal of Applied Physics, 2021, 130, 244101.	1.1	0

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19	Electric and antiferromagnetic chiral textures at multiferroic domain walls. Nature Materials, 2020, 19, 386-390.	13.3	64
20	Electrocalorics hit the top. Nature Materials, 2020, 19, 9-11.	13.3	14
21	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. Nature, 2020, 577, 47-51.	13.7	71
22	Increase of magnetic and magnetoelectric properties in Co/Mn co-doped BiFeO ₃ multiferroic. Journal of Magnetism and Magnetic Materials, 2020, 498, 166137.	1.0	14
23	Optical and structural properties of In-rich In _x Ga _{1-x} As epitaxial layers on (1 0 0) InP for SWIR detectors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114769.	1.7	17
24	Macroscopic polarization in the nominally ergodic relaxor state of lead magnesium niobate. Applied Physics Letters, 2020, 117, .	1.5	5
25	Physical investigations on LaMn _{1-x} Ni _x O ₃ perovskite sprayed thin films along with surface magnetic applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	7
26	Evidence for Goldstone-like and Higgs-like structural modes in the model PbMgO_3 relaxor ferroelectri. Physical Review B, 2020, 102, .	1.1	5
27	Effect of Mn and Ba Codoping on a Magnetic Spin Cycloid of Multiferroic Bismuth Ferrite Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 22266-22277.	1.5	24
28	Research progress on solutions to the sneak path issue in memristor crossbar arrays. Nanoscale Advances, 2020, 2, 1811-1827.	2.2	110
29	Heat flow in electrocaloric multilayer capacitors. Journal of Alloys and Compounds, 2020, 834, 155042.	2.8	13
30	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO ₃ Multiferroic Films. Advanced Functional Materials, 2020, 30, 2000343.	7.8	26
31	Ultrafast light-induced shear strain probed by time-resolved x-ray diffraction: Multiferroic BiFeO ₃ as a case study. Physical Review B, 2020, 102, .	1.1	9
32	Switchable two-dimensional electron gas based on ferroelectric Ca: SrTiO ₃ . Physical Review Materials, 2020, 4, .	0.9	15
33	Domain structure and dielectric properties of metal-ferroelectric superlattices with asymmetric interfaces. Physical Review Materials, 2020, 4, .	0.9	6
34	A magnetic phase diagram for nanoscale epitaxial BiFeO ₃ films. Applied Physics Reviews, 2019, 6, .	5.5	19
35	Towards Oxide Electronics: a Roadmap. Applied Surface Science, 2019, 482, 1-93.	3.1	236
36	Magnetoelastic and magnetoelectric couplings across the antiferromagnetic transition in multiferroic BiFeO ₃ . Physical Review B, 2019, 99, .	1.1	9

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37	Direct Epitaxial Growth of Polar $(1 \times 1) \times 2$ $\text{HfO}_2/\text{ZrO}_2$ Ultrathin Films on Silicon. ACS Applied Electronic Materials, 2019, 1, 2585-2593.	2.0	48
38	Substituted effect of Al^{3+} on structural, optical, magnetic and photocatalytic activity of Ni ferrites. Journal of Magnetism and Magnetic Materials, 2019, 476, 124-133.	1.0	41
39	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. Advanced Electronic Materials, 2019, 5, 1800600.	2.6	129
40	Polarons, vacancies, vacancy associations, and defect states in multiferroic BiFeO_3 . Physical Review B, 2019, 99, .	4.0	140
41	Ferroelectric Synapses: A Robust Artificial Synapse Based on Organic Ferroelectric Polymer (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.6	3
42	Switching on superferromagnetism. Physical Review Materials, 2019, 3, .	0.9	6
43	Synthesis, photoluminescence and Magnetic properties of iron oxide ($\pm\text{Fe}_2\text{O}_3$) nanoparticles through precipitation or hydrothermal methods. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 212-219.	1.3	136
44	Electrostrain in excess of 1% in polycrystalline piezoelectrics. Nature Materials, 2018, 17, 427-431.	13.3	180
45	Nanocrystalline $\text{Ni}_x\text{Co}_{(0.5-x)}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ ferrites: fabrication through co-precipitation route with enhanced structural, magnetic and photo-catalytic activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 7333-7344.	1.1	9
46	Large magnetoelectric response and its origin in bulk Co-doped BiFeO_3 synthesized by a stirred hydrothermal process. Acta Materialia, 2018, 145, 316-321.	3.8	48
47	Activation of B_1 silent Raman modes and its potential origin as source for phonon-assisted replicas in photoluminescence response in N-doped ZnO nanowires. Journal of Applied Physics, 2018, 123, .	1.1	8
48	Improved photocatalytic activities of $\text{Cu}_x\text{Co}_{0.5-x}\text{Ni}_{0.5}\text{Fe}_2\text{O}_4$ nanoparticles through co-precipitation method in degrading methylene blue. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 29-37.	1.3	30
49	Epitaxial ferroelectric oxide thin films for optical applications. Applied Physics Reviews, 2018, 5, 041108.	5.5	46
50	A rhombohedral ferroelectric phase in epitaxially strained $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ thin films. Nature Materials, 2018, 17, 1095-1100.	13.3	324
51	Surface Proximity Effect, Imprint Memory of Ferroelectric Twins, and Tweed in the Paraelectric Phase of BaTiO_3 . Scientific Reports, 2018, 8, 13660.	1.6	17
52	Quantum-fluctuation-stabilized orthorhombic ferroelectric ground state in lead-free piezoelectric Ba_3O_3 . Physical Review B, 2018, 98, .	1.1	11
53	Direct Evidence of Lithium Ion Migration in Resistive Switching of Lithium Cobalt Oxide Nanobatteries. Small, 2018, 14, e1801038.	5.2	20
54	Structural and optical investigation of (V, Al) doped and co-doped ZnO nanopowders: Tailored visible luminescence for white light emitting diodes. Superlattices and Microstructures, 2018, 122, 349-361.	1.4	23

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55	Synthesis, structural, morphological, optical and magnetic characterization of iron oxide (Fe_2O_3) nanoparticles by precipitation method: Effect of varying the nature of precursor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 328-334.	1.3	63
56	Effect of resistivity ratio on energy storage and dielectric relaxation properties of BaTiO_3 dielectric composites. <i>Journal of Materials Science</i> , 2017, 52, 6074-6080.	1.7	23
57	Large electrocaloric strength and broad electrocaloric temperature span in lead-free $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{Ti}_{1-x}\text{Hf}_x\text{O}_3$ ceramics. <i>RSC Advances</i> , 2017, 7, 5813-5820.	1.7	46
58	Single crystal growth of $\text{Mn}_4\text{Nb}_2\text{O}_9$ and its structure-magnetic coupling. <i>RSC Advances</i> , 2017, 7, 13846-13850.	1.7	19
59	Enhanced electrocaloric effect near polymorphic phase boundary in lead-free potassium sodium niobate ceramics. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	53
60	Toy model for uncommon spin-orbit-driven spin-torque terms. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 254001.	0.7	1
61	Interfacial memristors in Al-LaNiO_3 heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16960-16968.	1.3	6
62	Dielectric Response: Answer to Many Questions in the Methylammonium Lead Halide Solar Cell Absorbers. <i>Advanced Energy Materials</i> , 2017, 7, 1700600.	10.2	163
63	Synthesis, structural, optical and morphological characterization of hematite through the precipitation method: Effect of varying the nature of the base. <i>Journal of Molecular Structure</i> , 2017, 1141, 99-106.	1.8	48
64	Strain and Magnetic Field Induced Spin-Structure Transitions in Multiferroic BiFeO_3 . <i>Advanced Materials</i> , 2017, 29, 1602327.	11.1	76
65	Nonlinear magnetoelectric effect in paraelectric state of $\text{Co}_4\text{Nb}_2\text{O}_9$ single crystal. <i>Scientific Reports</i> , 2017, 7, 14079.	1.6	21
66	Vacancies and holes in bulk and at 180° domain walls in lead titanate. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 485707.	0.7	16
67	Direct measurement of electrocaloric effect in lead-free $\text{Ba}(\text{Sn}_x\text{Ti}_{1-x})\text{O}_3$ ceramics. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	43
68	Synthesis, structural, optical, morphological and magnetic characterization of copper substituted nickel ferrite ($\text{Cu}_x\text{Ni}_{1-x}\text{Fe}_2\text{O}_4$) through co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18480-18488.	1.1	42
69	Large heat flux in electrocaloric multilayer capacitors. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 464002.	1.3	9
70	Structural, optical and morphological characterization of Cu-doped Fe_2O_3 nanoparticles synthesized through co-precipitation technique. <i>Journal of Molecular Structure</i> , 2017, 1148, 276-281.	1.8	78
71	Control of the shape and size of iron oxide (Fe_2O_3) nanoparticles synthesized through the chemical precipitation method. <i>Results in Physics</i> , 2017, 7, 3007-3015.	2.0	403
72	Postsynthetic Approach for the Rational Design of Chiral Ferroelectric Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8098-8101.	6.6	81

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73	Space-charge Effect on Electroresistance in Metal-Ferroelectric-Metal capacitors. Scientific Reports, 2016, 5, 18297.	1.6	30
74	Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, .	1.1	33
75	Spin transitions in La _{0.7} Ba _{0.3} CoO ₃ thin films revealed by combining Raman spectroscopy and X-ray diffraction. Journal of Applied Physics, 2016, 120, .	1.1	3
76	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO ₃ thin films through Mössbauer spectroscopy. Applied Physics Letters, 2016, 109, .	1.5	10
77	Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. Nature Communications, 2016, 7, 12345.	5.8	41
78	Direct and indirect measurements on electrocaloric effect: Recent developments and perspectives. Applied Physics Reviews, 2016, 3, 031102.	5.5	206
79	Insight into electrocaloric cooling power in multilayer capacitors using infra-red camera. Applied Physics Letters, 2016, 109, .	1.5	12
80	Some strategies for improving caloric responses with ferroelectrics. APL Materials, 2016, 4, 064109.	2.2	57
81	Structural, electronic and magnetic properties of metal-organic-framework perovskites [AmH][Mn(HCOO) ₃]: a first-principles study. RSC Advances, 2016, 6, 48779-48787.	1.7	11
82	Crystal structure, leakage conduction mechanism evolution and enhanced multiferroic properties in Y-doped BiFeO ₃ ceramics. Ceramics International, 2016, 42, 13395-13403.	2.3	43
83	Phase transition, leakage conduction mechanism evolution and enhanced ferroelectric properties in multiferroic Mn-doped BiFeO ₃ thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 3095-3102.	1.1	29
84	New relativistic Hamiltonian: the angular magnetoelectric coupling. , 2016, , .		4
85	Spatially Resolved Imaging of Electrocaloric Effect and the Resultant Heat Flux in Multilayer Capacitors. ACS Energy Letters, 2016, 1, 521-528.	8.8	38
86	Photostriction in Ferroelectrics from Density Functional Theory. Physical Review Letters, 2016, 116, 247401.	2.9	51
87	Single-domain (110) PbTiO_3 thin films: Thermodynamic theory and experiments. Physical Review B, 2016, 93, .		
88	Large reversible caloric effect in FeRh thin films via a dual-stimulus multicaloric cycle. Nature Communications, 2016, 7, 11614.	5.8	108
89	Pinched hysteresis loop in defect-free ferroelectric materials. Physical Review B, 2016, 94, .	1.1	41
90	Tunnel electroresistance through organic ferroelectrics. Nature Communications, 2016, 7, 11502.	5.8	104

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91	Photovoltaics with Ferroelectrics: Current Status and Beyond. <i>Advanced Materials</i> , 2016, 28, 5153-5168.	11.1	330
92	Size Effect on Optical and Photocatalytic Properties in BiFeO ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3595-3601.	1.5	119
93	Electron spin interaction with the angular momentum of the electromagnetic field. , 2016, , .		0
94	Antiferroelectric Thin Films: Giant Negative Electrocaloric Effect in Antiferroelectric La-Doped Pb(ZrTi)O ₃ Thin Films Near Room Temperature (Adv. Mater. 20/2015). <i>Advanced Materials</i> , 2015, 27, 3164-3164.	11.1	3
95	Homogeneous switching mechanism in pure polyvinylidene fluoride ultrathin films. <i>Physical Review B</i> , 2015, 92, .	1.1	11
96	Giant electrocaloric effect in lead-free Ba _{0.94} Ca _{0.06} Ti _{1-x} Sn _x O ₃ ceramics with tunable Curie temperature. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	60
97	Polarization fatigue in antiferroelectric (Pb,La)(Zr,Ti)O ₃ thin films: The role of the effective strength of driving waveform. <i>Ceramics International</i> , 2015, 41, S289-S295.	2.3	6
98	Spin and lattice excitations of a BiFeO_3 film and ceramics. <i>Physical Review B</i> , 2015, 91, .	1.1	17
99	Relativistic interaction Hamiltonian coupling the angular momentum of light and the electron spin. <i>Physical Review B</i> , 2015, 92, .	1.1	41
100	Influence of epitaxial strain on elastocaloric effect in ferroelectric thin films. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	17
101	Strain effects on multiferroic BiFeO ₃ films. <i>Comptes Rendus Physique</i> , 2015, 16, 193-203.	0.3	44
102	Thickness dependence of the properties of epitaxial barium strontium titanate thin films. <i>Physics of the Solid State</i> , 2015, 57, 1529-1534.	0.2	7
103	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. <i>Scientific Reports</i> , 2015, 5, 10026.	1.6	44
104	Finite-temperature properties of the relaxor PbMgO_3 from atomistic simulations. <i>Physical Review B</i> , 2015, 91, .	1.1	49
105	Strong electrocaloric effect in lead-free 0.65Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.35(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics obtained by direct measurements. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	131
106	Giant Negative Electrocaloric Effect in Antiferroelectric La-Doped Pb(ZrTi)O ₃ Thin Films Near Room Temperature. <i>Advanced Materials</i> , 2015, 27, 3165-3169.	11.1	241
107	Tailoring the room temperature ferroelectric/paraelectric state in polycrystalline (Ba _{0.70} Sr _{0.30})TiO ₃ thin films for silicon compatible integration. <i>Ceramics International</i> , 2015, 41, 14412-14418.	2.3	3
108	Negative-pressure-induced enhancement in a freestanding ferroelectric. <i>Nature Materials</i> , 2015, 14, 985-990.	13.3	82

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109	β phase instability in poly(vinylidene fluoride/trifluoroethylene) thin films near T_c relaxation temperature. Applied Physics Letters, 2015, 106, .	1.5	12
110	Effective driving voltage on polarization fatigue in (Pb,La)(Zr,Ti)O ₃ antiferroelectric thin films. Ceramics International, 2015, 41, 109-114.	2.3	9
111	Ferroelectric Polymer Nanostructures: Fabrication, Structural Characteristics and Performance Under Confinement. Journal of Nanoscience and Nanotechnology, 2014, 14, 2086-2100.	0.9	39
112	Phase transitions in [001]-oriented morphotropic PbZr _{0.52} Ti _{0.48} O ₃ thin film deposited onto SrTiO ₃ -buffered Si substrate. Journal of Applied Physics, 2014, 115, .	1.1	12
113	The intermediate temperature T^* revealed in relaxor polymers. Applied Physics Letters, 2014, 104, .	1.5	5
114	Effect of polarization fatigue on the Rayleigh coefficients of ferroelectric lead zirconate titanate thin films: Experimental evidence and implications. Applied Physics Letters, 2014, 105, .	1.5	13
115	Giant electrocaloric effect in asymmetric ferroelectric tunnel junctions at room temperature. Applied Physics Letters, 2014, 104, .	1.5	17
116	Tunnel-mediated coupling between antiferromagnetic thin films. Physical Review B, 2014, 90, .	1.1	7
117	Enhanced electrocaloric effect in lead-free BaTi _{1-x} Sn _x O ₃ ceramics near room temperature. Applied Physics Letters, 2014, 105, .	1.5	165
118	Rayleigh-like nonlinear dielectric response and its evolution during electrical fatigue in antiferroelectric (Pb,La)(Zr,Ti)O ₃ thin film. Applied Physics Letters, 2014, 104, 142904.	1.5	23
119	Giant mechanically-mediated electrocaloric effect in ultrathin ferroelectric capacitors at room temperature. Applied Physics Letters, 2014, 104, .	1.5	36
120	Giant room-temperature barocaloric effect and pressure-mediated electrocaloric effect in BaTiO ₃ single crystal. Applied Physics Letters, 2014, 104, .	1.5	43
121	Electric-field control of magnetic order above room temperature. Nature Materials, 2014, 13, 345-351.	13.3	451
122	Giant Room-Temperature Elastocaloric Effect in Ferroelectric Ultrathin Films. Advanced Materials, 2014, 26, 6132-6137.	11.1	86
123	Non-ergodicity and polar features of the transitional phase in lead zirconate. Applied Physics Letters, 2014, 105, .	1.5	6
124	Prediction of giant elastocaloric strength and stress-mediated electrocaloric effect in BaTiO ₃ single crystals. Physical Review B, 2014, 90, .	1.1	47
125	Polarization-controlled spin reorientation transition and resistive switching in ferromagnetic-ferroelectric nanostructures and tunnel junctions. Physical Review B, 2014, 90, .	1.1	5
126	Giant ultrafast photo-induced shear strain in ferroelectric BiFeO ₃ . Nature Communications, 2014, 5, 4301.	5.8	129

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127	Anomalous properties of antiferroelectric PbZrO_3 under hydrostatic pressure. <i>Physical Review B</i> , 2014, 89, .	1.1	11
128	Strain engineering of perovskite thin films using a single substrate. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 292201.	0.7	21
129	Control of ferroelectricity and magnetism in multi-ferroic BiFeO_3 by epitaxial strain. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20120438.	1.6	32
130	Energy-filtered electron diffuse scattering of ferroelectrics PMN and PMN-xPT. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C623-C623.	0.0	0
131	The direct magnetoelectric effect in ferroelectric/ferromagnetic epitaxial heterostructures. <i>Nanoscale</i> , 2013, 5, 8037.	2.8	49
132	Condensation of the atomic relaxation vibrations in lead-magnesium-niobate at $T=T^*$. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	19
133	Phase transitional behavior of potassium sodium niobate thin films. <i>Thin Solid Films</i> , 2013, 539, 317-322.	0.8	8
134	Mesoscale Domains and Nature of the Relaxor State by Piezoresponse Force Microscopy. <i>Annual Review of Materials Research</i> , 2013, 43, 423-449.	4.3	87
135	Crafting the magnonic and spintronic response of BiFeO_3 films by epitaxial strain. <i>Nature Materials</i> , 2013, 12, 641-646.	13.3	311
136	Storing magnetic information in $\text{IrMn}/\text{MgO}/\text{Ta}$ tunnel junctions via field-cooling. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	56
137	In situ observation of the nanocrystal growth and their piezoelectric performance change in $\text{P}(\text{VDF-TrFE})$ films by hot stage piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2013, 113, 187210.	1.1	9
138	Field-Induced Percolation of Polar Nanoregions in Relaxor Ferroelectrics. <i>Physical Review Letters</i> , 2013, 110, 207601.	2.9	95
139	Effect of a built-in electric field in asymmetric ferroelectric tunnel junctions. <i>Physical Review B</i> , 2013, 88, .	1.1	45
140	Guest editors' note. <i>Phase Transitions</i> , 2013, 86, 1051-1051.	0.6	0
141	Ferroelectric phase transition in strained multiferroic $(\text{Bi}_{0.9}\text{La}_{0.1})_2\text{NiMnO}_6$ thin films. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	12
142	Magnetodielectric effect and phonon properties of compressively strained EuTiO_3 thin films deposited on $(001)(\text{LaAlO}_3/\text{SrTiO}_3)$. <i>Physical Review Letters</i> , 2012, 108, 177601.	1.1	21
143	Effect of particle morphology on the photocatalytic activity of BiFeO_3 microcrystallites. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1869-1874.	1.1	27
144	Structure evolution and photocatalytic activity of BiFeO_3 powders synthesized by hydrothermal decomposition of metal-EDTA complexes. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 2145-2151.	1.1	4

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145	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO ₃ thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	0.7	66
146	Novel complex phenomena in ferroelectric nanocomposites. Journal of Physics Condensed Matter, 2012, 24, 402201.	0.7	34
147	New life of a forgotten method: Electrochemical route toward highly efficient Pt/C catalysts for low-temperature fuel cells. Applied Catalysis A: General, 2012, 431-432, 120-125.	2.2	49
148	Pressure-induced phase transitions and structure of chemically ordered nanoregions in the lead-free relaxor ferroelectric Na $_{1-x}$ Bi $_{x-0.32}$	1.1	32
149	High-temperature ferroic phase transitions and paraelectric cubic phase in multiferroic Bi _{0.95} F ₁ Fe _{0.9} Zr _{0.1} O ₃ . Journal of Applied Physics, 2012, 111, 114106.	1.1	5
150	A comparative Raman study of 0.65(PbMg _{1/3} Nb _{2/3} O ₃) -0.35(PbTiO ₃) single crystal and thin film. European Physical Journal B, 2012, 85, 1.	0.6	10
151	Giant magnetocapacitance of strained ferroelectric-ferromagnetic hybrids. Physical Review B, 2012, 85, .	1.1	20
152	Surface phase transitions in BiFeO $_{3-x}$ below room temperature. Physical Review B, 2012, 85, .	1.1	70
153	Multiferroics by Rational Design: Implementing Ferroelectricity in Molecule-Based Magnets. Angewandte Chemie - International Edition, 2012, 51, 8356-8360.	7.2	157
154	Photoexcitation of gigahertz longitudinal and shear acoustic waves in BiFeO ₃ multiferroic single crystal. Applied Physics Letters, 2012, 100, .	1.5	64
155	Catalytic Activity of Carbon-Supported Pt Nanoelectrocatalysts. Why Reducing the Size of Pt Nanoparticles is Not Always Beneficial. Journal of Physical Chemistry C, 2011, 115, 5429-5434.	1.5	76
156	$_{3-x}$ Films under Tensile Epitaxial Strain from First Principles. Physical Review Letters, 2011, 106, 237601.	2.9	56
157	Multiple high-pressure phase transitions in BiFeO $_{3-x}$. Physical Review B, 2011, 84, .	1.1	93
158	High Proton Conduction in a Chiral Ferromagnetic Metal-Organic Quartz-like Framework. Journal of the American Chemical Society, 2011, 133, 15328-15331.	6.6	302
159	Multiferroic Phase Transition near Room Temperature in $_{3-x}$ Films. Physical Review Letters, 2011, 107, 237601.	2.9	88
160	Orthorhombic polar Nd-doped BiFeO ₃ thin film on MgO substrate. Journal of Physics Condensed Matter, 2011, 23, 332201.	0.7	7
161	Oxygen tilts against polar shifts in the multiferroic BiFeO ₃ . Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C179-C179.	0.3	0
162	A brief review on the model antiferroelectric PbZrO ₃ perovskite-like material. Zeitschrift für Kristallographie, 2011, 226, 163-170.	1.1	77

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