

Laurent Bellaïche

List of Publications by Year in descending order

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347
papers

18,949
citations

10351

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351
all docs

351
docs citations

351
times ranked

12525
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropic epitaxial stabilization of a low-symmetry ferroelectric with enhanced electromechanical response. <i>Nature Materials</i> , 2022, 21, 74-80.	13.3	35
2	Energetic Couplings in Ferroics. <i>Advanced Electronic Materials</i> , 2022, 8, 2100639.	2.6	3
3	Energy storage in lead-free Ba(Zr, Ti) O_3 relaxor ferroelectrics: Large densities and efficiencies and their origins. <i>Physical Review B</i> , 2022, 105, .	1.1	5
4	Assembling Diverse Skyrmionic Phases in Fe_3GeTe_2 Monolayers. <i>Advanced Materials</i> , 2022, 34, e2107779.	11.1	25
5	Magnetically controllable band splittings in PbTiO_3 ferromagnetic materials. <i>Physical Review B</i> , 2022, 105, .		
6	Large electrocaloric response via percolation of polar nanoregions. <i>Physical Review B</i> , 2022, 105, .	1.1	2
7	Hidden phases with neuromorphic responses and highly enhanced piezoelectricity in an antiferroelectric prototype. <i>Physical Review B</i> , 2022, 105, .	1.1	8
8	Electrical Energy Storage From First Principles. <i>Frontiers in Electronic Materials</i> , 2022, 2, .	1.6	3
9	High-density switchable skyrmion-like polar nanodomains integrated on silicon. <i>Nature</i> , 2022, 603, 63-67.	13.7	79
10	Domain-wall-induced electromagnons in multiferroics. <i>Physical Review Materials</i> , 2022, 6, .	0.9	2
11	Deterministic control of ferroelectric polarization by ultrafast laser pulses. <i>Nature Communications</i> , 2022, 13, 2566.	5.8	18
12	Complex spin Hamiltonian represented by an artificial neural network. <i>Physical Review B</i> , 2022, 105, .	1.1	8
13	Improper multiferroiclike transition in a metal. <i>Physical Review B</i> , 2022, 105, .	1.1	4
14	Ultrahigh energy storage density in lead-free antiferroelectric rare-earth-substituted bismuth ferrite. <i>Physical Review Materials</i> , 2022, 6, .	0.9	3
15	Zeeman-type energy level splittings controlled by an electric field. <i>Physical Review B</i> , 2022, 106, .	1.1	1
16	Dzyaloshinskii–Moriya-like interaction in ferroelectrics and antiferroelectrics. <i>Nature Materials</i> , 2021, 20, 341-345.	13.3	37
17	Ultrafast Neuromorphic Dynamics Using Hidden Phases in the Prototype of Relaxor Ferroelectrics. <i>Physical Review Letters</i> , 2021, 126, 027602.	2.9	27
18	Spin-orbit effects in ferroelectric PbTiO_3 under tensile strain. <i>Physical Review B</i> , 2021, 103, .	1.1	8

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19	Designing frustration in two-dimensional magnetic systems via the application of uniaxial strain. Physical Review B, 2021, 103, .	1.1	8
20	Giant linear magnetoelectric effect at the morphotropic phase boundary of epitaxial $\text{Sr}_{0.5}\text{Bi}_{0.5}\text{O}_3$ films. Physical Review B, 2021, 103, .	1.1	10
21	Structural and magnetic properties of two-dimensional layered BiFeO_3 from first principles. Physical Review B, 2021, 103, .	1.1	12
22	Band structure engineering of van der Waals heterostructures using ferroelectric clamped sandwich structures. Physical Review B, 2021, 103, .	1.1	11
23	Electrocaloric effects in multiferroics. Physical Review B, 2021, 103, .	1.1	4
24	Properties of (001) NaNbO_3 films under epitaxial strain: A first-principles study. Physical Review B, 2021, 103, .	1.1	14
25	First-principles study of spin spirals in the multiferroic BiFeO_3 . Physical Review B, 2021, 103, .	1.1	9
26	Coexistence and Coupling of Multiple Charge Orderings and Spin States in Hexagonal Ferrite. Nano Letters, 2021, 21, 5782-5787.	4.5	2
27	Probing the dynamics of ferroelectric topological oscillators with the electron beam. Microscopy and Microanalysis, 2021, 27, 690-692.	0.2	2
28	Ultrahigh energy storage density in epitaxial AlN/ScN superlattices. Physical Review Materials, 2021, 5, .	0.9	7
29	Ferroelectric phase-transition frustration near a tricritical composition point. Nature Communications, 2021, 12, 5322.	5.8	18
30	Freestanding Ferroelectric Bubble Domains. Advanced Materials, 2021, 33, e2105432.	11.1	18
31	Revisiting structural phases in some perovskites: The case of BaCeO_3 . Physical Review B, 2021, 104, .	1.1	6
32	Magnetization Compensation Temperature and Frustration-Induced Topological Defects in Ferrimagnetic Antiperovskite Mn_2O_4 . Physical Review Letters, 2021, 127, 217204.	2.9	24
33	Controlling topological defect transitions in nanoscale lead zirconate titanate heterostructures. Physical Review Materials, 2021, 5, .	0.9	7
34	Magnetoelastic standing waves induced in UO_2 by microsecond magnetic field pulses. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	3
35	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. Nature, 2020, 577, 47-51.	13.7	71
36	Finite-temperature properties of rare-earth iron garnets in a magnetic field. Physical Review B, 2020, 102, .	1.1	8

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37	Large spin splittings due to the orbital degree of freedom and spin textures in a ferroelectric nitride perovskite. Physical Review B, 2020, 102, .	1.1	20
38	Electric-Field Switching of Magnetic Topological Charge in Type-I Multiferroics. Physical Review Letters, 2020, 125, 037203.	2.9	86
39	Topology and control of self-assembled domain patterns in low-dimensional ferroelectrics. Nature Communications, 2020, 11, 5779.	5.8	37
40	Magnetic-Domain-Wall-Induced Electrical Polarization in Rare-Earth Iron Garnet Systems: A First-Principles Study. Physical Review Letters, 2020, 125, 067602.	2.9	11
41	Evidence for Goldstone-like and Higgs-like structural modes in the model PbMg_3O_3 relaxor ferroelectri. Physical Review B, 2020, 102, .	1.1	5
42	Strain control of layer-resolved negative capacitance in superlattices. Npj Computational Materials, 2020, 6, .	3.5	4
43	Emergence of skyrmionium in a two-dimensional CrGeTe_3 Janus monolayer. Physical Review B, 2020, 102, .	1.1	6
44	Purely Cubic Spin Splittings with Persistent Spin Textures. Physical Review Letters, 2020, 125, 216405.	2.9	35
45	Enhanced transient negative capacitance during inhomogeneous ferroelectric switching. Physical Review B, 2020, 101, .	1.1	3
46	Berezinskii-Kosterlitz-Thouless phase in two-dimensional ferroelectrics. Physical Review B, 2020, 101, .	1.1	16
47	Strain-induced resonances in the dynamical quadratic magnetoelectric response of multiferroics. Npj Computational Materials, 2020, 6, .	3.5	4
48	Origin of sawtooth domain walls in ferroelectrics. Physical Review B, 2020, 101, .	1.1	9
49	Macroscopic and Microscopic Structures of Cesium Lead Iodide Perovskite from Atomistic Simulations. Advanced Functional Materials, 2020, 30, 1909496.	7.8	11
50	Improper ferroelectricity in 134-type $\text{A}_2\text{A}_2\text{B}_2\text{O}_{12}$ perovskites. Physical Review B, 2020, 101, .	1.1	3
51	Linear Versus Nonlinear Electro-Optic Effects in Materials. Physical Review Letters, 2020, 125, 017401.	2.9	11
52	Possible Kitaev Quantum Spin Liquid State in 2D Materials with S_3 Physical Review Letters, 2020, 124, 087205.	2.9	88
53	Topological spin texture in Janus monolayers of the chromium trihalides CrI_3 Physical Review B, 2020, 101, .	1.1	146
54	Universality and origin of ultrashort intrinsic negative dielectric permittivity. Physical Review B, 2020, 101, .	1.1	5

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55	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. Physical Review B, 2020, 101, .	1.1	69
56	Order-disorder transition in the prototypical antiferroelectric PbZrO_3 . Physical Review B, 2019, 100, .	1.1	15
57	Prediction of a novel topological multidefect ground state. Physical Review B, 2019, 100, .	1.1	8
58	Rashba-like spin-orbit and strain effects in tetragonal PbTiO_3 . Physical Review B, 2019, 100, .	1.1	29
59	A magnetic phase diagram for nanoscale epitaxial BiFeO_3 films. Applied Physics Reviews, 2019, 6, .	5.5	19
60	Designing Multifunctionality via Assembling Dissimilar Materials: Epitaxial AlN/ScN Superlattices. Physical Review Letters, 2019, 123, 096801.	2.9	19
61	Photoinduced Phase Transitions in Ferroelectrics. Physical Review Letters, 2019, 123, 087601.	2.9	40
62	Electric-Field Control of Magnetization, Jahn-Teller Distortion, and Orbital Ordering in Ferroelectric Ferromagnets. Physical Review Letters, 2019, 122, 247701.	2.9	31
63	A-site partially ordered $\text{La}_{0.5}\text{Y}_{0.5}\text{FeO}_3$ and its multiferroic characteristics. Applied Physics Letters, 2019, 114, .	1.5	6
64	Ferroelectricity with Asymmetric Hysteresis in Metallic LiOsO_4 Ultrathin Films. Physical Review Letters, 2019, 122, 227601.	2.9	34
65	Deterministic Switching of Ferroelectric Bubble Nanodomains. Advanced Functional Materials, 2019, 29, 1808573.	7.8	30
66	Expansion of the spin cycloid in multiferroic BiFeO_3 thin films. Npj Quantum Materials, 2019, 4, .	1.8	33
67	Magnetic interactions in BiFeO_3 : A first-principles study. Physical Review B, 2019, 99, .	1.1	38
68	Magnetoelastic and magnetoelectric couplings across the antiferromagnetic transition in multiferroic BiFeO_3 . Physical Review B, 2019, 99, .	1.1	9
69	Novel Dynamical Magnetoelectric Effects in Multiferroic BiFeO_3 . Physical Review Letters, 2019, 122, 097601.	2.9	11
70	Conformational Domain Wall Switch. Advanced Functional Materials, 2019, 29, 1807523.	7.8	47
71	Prediction of room-temperature half-metallicity in layered halide double perovskites. Npj Computational Materials, 2019, 5, .	3.5	19
72	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. Physical Review Letters, 2019, 123, 217602.	2.9	50

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73	Tuning magnetization compensation and Curie temperatures in epitaxial rare earth iron garnet films. Physical Review B, 2019, 100, .	1.1	23
74	Diversity of structural phases and resulting control of properties in brownmillerite oxides: A first-principles study. Physical Review B, 2019, 100, .	1.1	8
75	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic $\text{Lu}_2\text{V}_2\text{O}_7$. Physical Review B, 2019, 100, .	1.1	15
76	Temperature dependence of polar modes in hybrid improper ferroelectrics. Physical Review B, 2019, 100, .	1.1	5
77	Symmetry Modulation and Enhanced Multiferroic Characteristics in $\text{Bi}_{1-x}\text{Nd}_x\text{FeO}_3$ Ceramics. Advanced Functional Materials, 2019, 29, 1806399.	7.8	36
78	Strain engineering of electro-optic constants in ferroelectric materials. Npj Computational Materials, 2019, 5, .	3.5	28
79	Giant piezoelectricity of Sm-doped $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals. Science, 2019, 364, 264-268.	6.0	479
80	First-principles screening of ABO ₃ oxides with two magnetic sublattices. Physical Review Materials, 2019, 3, .	0.9	0
81	Topological Defects with Distinct Dipole Configurations in PbTiO_3 Multilayer Films. Physical Review Letters, 2018, 120, 177601.	2.9	55
82	Meta-screening and permanence of polar distortion in metallized ferroelectrics. Physical Review B, 2018, 97, .	1.1	39
83	Energetics of oxygen-octahedra rotations in perovskite oxides from first principles. Physical Review B, 2018, 97, .	1.1	32
84	Structural phases arising from reconstructive and isostructural transitions in high-melting-point oxides under hydrostatic pressure: A first-principles study. Physical Review B, 2018, 97, .	1.1	19
85	Giant electrocaloric response in the prototypical $\text{Pb}(\text{Mg,Nb})\text{O}_3$ relaxor ferroelectric from atomistic simulations. Physical Review B, 2018, 97, .	1.1	24
86	Displacement Current in Domain Walls of Bismuth Ferrite. Npj Computational Materials, 2018, 4, .	3.5	14
87	Temperature and electric field control of the bandgap in electrotoroidic nanocomposites by large-scale ab initio methods. Ferroelectrics, 2018, 535, 93-105.	0.3	1
88	Revisiting spin cycloids in multiferroic BiFeO_3 . Physical Review B, 2018, 98, .	1.1	22
89	Interplay between Kitaev interaction and single ion anisotropy in ferromagnetic CrI_3 and CrGeTe_3 monolayers. Npj Computational Materials, 2018, 4, .	3.5	226
90	Large scale hybrid Monte Carlo simulations for structure and property prediction. Npj Computational Materials, 2018, 4, .	3.5	12

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91	Tailoring properties of hybrid perovskites by domain-width engineering with charged walls. Npj Computational Materials, 2018, 4, .	3.5	15
92	Epitaxial ferroelectric oxide thin films for optical applications. Applied Physics Reviews, 2018, 5, 041108.	5.5	46
93	Giant resistive switching in mixed phase BiFeO ₃ via phase population control. Nanoscale, 2018, 10, 17629-17637.	2.8	18
94	Quantum-fluctuation-stabilized orthorhombic ferroelectric ground state in lead-free piezoelectric $\text{Ba}_{1-x}\text{Ca}_x\text{Bi}_{1-y}\text{Fe}_y\text{O}_{3-z}\text{F}_z$ Physical Review B, 2018, 98, .	2.8	18
95	Understanding and revisiting the most complex perovskite system via atomistic simulations. Physical Review B, 2018, 97, .	1.1	19
96	Interface reconstruction with emerging charge ordering in hexagonal manganite. Science Advances, 2018, 4, eaar4298.	4.7	37
97	Designing switchable near room-temperature multiferroics via the discovery of a novel magnetoelectric coupling. New Journal of Physics, 2018, 20, 053025.	1.2	11
98	Polarization switching in the PbMg _{1/3} Nb _{2/3} O ₃ relaxor ferroelectric: An atomistic effective Hamiltonian study. Physical Review B, 2018, 98, .	1.1	10
99	Flexible polarization rotation at the ferroelectric/metal interface as a seed for domain nucleation. Physical Review B, 2018, 98, .	1.1	14
100	Intrinsic Origin of Enhancement of Ferroelectricity in SnTe Ultrathin Films. Physical Review Letters, 2018, 121, 027601.	2.9	55
101	Cooperative Couplings between Octahedral Rotations and Ferroelectricity in Perovskites and Related Materials. Physical Review Letters, 2018, 120, 197602.	2.9	43
102	Novel type of ferroelectricity in brownmillerite structures: A first-principles study. Physical Review Materials, 2018, 2, .	0.9	8
103	Structural and magnetic transitions accompanied by large responses in epitaxial Sr _{0.5} Ba _{0.5} MnO ₃ films. Physical Review Materials, 2018, 2, .	0.9	5
104	Improper electric polarization in simple perovskite oxides with two magnetic sublattices. Nature Communications, 2017, 8, 14025.	5.8	53
105	Toy model for uncommon spin-orbit-driven spin-torque terms. Journal of Physics Condensed Matter, 2017, 29, 254001.	0.7	1
106	Designing lead-free antiferroelectrics for energy storage. Nature Communications, 2017, 8, 15682.	5.8	149
107	Learning through ferroelectric domain dynamics in solid-state synapses. Nature Communications, 2017, 8, 14736.	5.8	437
108	Intrinsic polarization switching mechanisms in BiFeO_3 Physical Review B, 2017, 95, .	5.8	437

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109	Properties of rare-earth iron garnets from first principles. <i>Physical Review B</i> , 2017, 95, .	1.1	50
110	Pressure-Induced Multiferroics via Pseudo Jahn-Teller Effects and Novel Couplings. <i>Advanced Functional Materials</i> , 2017, 27, 1604513.	7.8	25
111	Dynamics of antipolar distortions. <i>Npj Computational Materials</i> , 2017, 3, .	3.5	6
112	Novel Multiferroic Phases and Phenomena in Epitaxial (111) BiFeO ₃ Films. <i>Advanced Electronic Materials</i> , 2017, 3, 1700332.	2.6	6
113	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
114	Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. <i>Advanced Materials</i> , 2017, 29, 1702375.	11.1	110
115	Emergent Berezinskii-Kosterlitz-Thouless Phase in Low-Dimensional Ferroelectrics. <i>Physical Review Letters</i> , 2017, 119, 117601.	2.9	17
116	Improper ferroelectricity at antiferromagnetic domain walls of perovskite oxides. <i>Physical Review B</i> , 2017, 96, .	1.1	24
117	Fluctuations and Topological Defects in Proper Ferroelectric Crystals. <i>Physical Review Letters</i> , 2017, 118, 147601.	2.9	20
118	Electrocaloric effects in the lead-free Ba(Zr,Ti)O ₃ relaxor ferroelectric from atomistic simulations. <i>Physical Review B</i> , 2017, 96, .	1.1	24
119	Rules and mechanisms governing octahedral tilts in perovskites under pressure. <i>Physical Review B</i> , 2017, 96, .	1.1	45
120	Ab initio approach to photostriction in classical ferroelectric materials. <i>Physical Review B</i> , 2017, 96, .	1.1	28
121	Creating a low-symmetry insulating, ferroelectric, and antiferromagnetic material from a high-symmetrical metallic ferromagnet via direct engineering: The case of LaBaC ₂ O ₅ . <i>Physical Review B</i> , 2017, 96, .	1.1	6
122	Photostrictive Two-Dimensional Materials in the Monochalcogenide Family. <i>Physical Review Letters</i> , 2017, 118, 227401.	2.9	70
123	Dependence of the Electronic and Optical Properties of Methylammonium Lead Triiodide on Ferroelectric Polarization Directions and Domains: A First Principles Computational Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15375-15383.	1.5	11
124	Microscopic origins of the large piezoelectricity of leadfree (Ba,Ca)(Zr,Ti)O ₃ . <i>Nature Communications</i> , 2017, 8, 15944.	5.8	69
125	Towards multicaloric effect with ferroelectrics. <i>Physical Review B</i> , 2016, 94, .	1.1	33
126	Structural Phase Transition and Material Properties of Few-Layer Monochalcogenides. <i>Physical Review Letters</i> , 2016, 117, 246802.	2.9	101

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127	Tuning the Weak Ferromagnetic States in Dysprosium Orthoferrite. Scientific Reports, 2016, 6, 37529.	1.6	31
128	A multiferroic on the brink: Uncovering the nuances of strain-induced transitions in BiFeO ₃ . Applied Physics Reviews, 2016, 3, 011106.	5.5	91
129	Chemical strain-dependent two-dimensional transport at $R\text{AlO}$ interfaces		

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163	Discovery of stable skyrmionic state in ferroelectric nanocomposites. Nature Communications, 2015, 6, 8542.	5.8	154
164	Systematic pseudopotentials from reference eigenvalue sets for DFT calculations. Computational Materials Science, 2015, 98, 372-389.	1.4	57
165	Finite-temperature Properties of Rare-Earth-Substituted BiFeO ₃ Multiferroic Solid Solutions. Advanced Functional Materials, 2015, 25, 552-558.	7.8	78
166	Nanodomains and nanometer-scale disorder in multiferroic bismuth ferrite single crystals. Acta Materialia, 2015, 82, 356-368.	3.8	32
167	Anomalous properties of hexagonal rare-earth ferrites from first principles. Physical Review B, 2014, 89, .	1.1	45
168	Effects of chemical and hydrostatic pressures on structural, magnetic, and electronic properties of R_2O_6		

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181	Revisiting galvanomagnetic effects in conducting ferromagnets. Journal of Physics Condensed Matter, 2014, 26, 432201.	0.7	5
182	Strain-induced control of domain wall morphology in ultrathin PbTiO_3 films. Physical Review B, 2014, 89, .	1.1	25
183	Properties of hydrofluorinated carbon- and boron nitride-based nanofilms: A first-principles study. Physical Review B, 2014, 89, .	1.1	9
184	Anomalous properties of antiferroelectric PbZrO_3 under hydrostatic pressure. Physical Review B, 2014, 89, .		
185	Strain engineering of perovskite thin films using a single substrate. Journal of Physics Condensed Matter, 2014, 26, 292201.	0.7	21
186	Universal collaborative couplings between oxygen-octahedral rotations and antiferroelectric distortions in perovskites. Physical Review B, 2013, 88, .	1.1	83
187	Full field electron spectromicroscopy applied to ferroelectric materials. Journal of Applied Physics, 2013, 113, .	1.1	43
188	Multidomains made of different structural phases in multiferroic BiFeO_3 : A first-principles-based study. Physical Review B, 2013, 88, .	1.1	21
189	Coupling of the angular momentum density with magnetic moments explains the intrinsic anomalous Hall effect. Physical Review B, 2013, 88, .	1.1	9
190	Properties of Epitaxial Films Made of Relaxor Ferroelectrics. Physical Review Letters, 2013, 111, 247602.	2.9	41
191	Effect of chemical and hydrostatic pressures on structural and magnetic properties of rare-earth orthoferrites: a first-principles study. Journal of Physics Condensed Matter, 2013, 25, 466002.	0.7	33
192	Elastic excitations in BaTiO_3 single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. Physical Review B, 2013, 87, .	1.1	63
193	Effect of chemical pressure, misfit strain and hydrostatic pressure on structural and magnetic behaviors of rare-earth orthochromates. Journal of Physics Condensed Matter, 2013, 25, 385604.	0.7	32
194	Ferroelectric Domains in Multiferroic BiFeO_3 Films under Epitaxial Strains. Physical Review Letters, 2013, 110, 187601.	2.9	54
195	Predicted Coupling of the Electromagnetic Angular Momentum Density with Magnetic Moments. Physical Review Letters, 2013, 110, 137205.	2.9	30
196	Crafting the magnonic and spintronic response of BiFeO_3 films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	13.3	311
197	Spin switching and magnetization reversal in single-crystal NdFeO_3 . Physical Review B, 2013, 87, .	1.1	166
198	Novel Nanoscale Twinned Phases in Perovskite Oxides. Advanced Functional Materials, 2013, 23, 234-240.	7.8	101

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199	Emergence of central mode in the paraelectric phase of ferroelectric perovskites. MRS Communications, 2013, 3, 41-45.	0.8	20
200	Novel magnetic arrangement and structural phase transition induced by spin-lattice coupling in multiferroics. MRS Communications, 2013, 3, 213-218.	0.8	4
201	Natural optical activity and its control by electric field in electrotoroidic systems. Physical Review B, 2013, 87, .	1.1	42
202	Field-Induced Percolation of Polar Nanoregions in Relaxor Ferroelectrics. Physical Review Letters, 2013, 110, 207601.	2.9	95
203	TERAHERTZ DIELECTRIC RESPONSE AND COUPLED DYNAMICS OF FERROELECTRICS AND MULTIFERROICS FROM EFFECTIVE HAMILTONIAN SIMULATIONS. International Journal of Modern Physics B, 2013, 27, 1330016.	1.0	14
204	Effect of central mode on the dielectric tunability of ferroelectrics near room temperature: a first-principle-based study. Journal of Physics Condensed Matter, 2013, 25, 252202.	0.7	9
205	A pathway between Bernal and rhombohedral stacked graphene layers with scanning tunneling microscopy. Applied Physics Letters, 2012, 100, .	1.5	18
206	Domain evolution in epitaxial (001) Pb(Zr,Ti)O ₃ ultrathin films under an electric field applied along the [111] direction. Physical Review B, 2012, 85, .	1.1	6
207	Ab initio study of the factors affecting the ground state of rare-earth nickelates. Physical Review B, 2012, 85, .	1.1	18
208	Atomic control of strain in freestanding graphene. Physical Review B, 2012, 85, .	1.1	65
209	Electronic transition from graphite to graphene via controlled movement of the top layer with scanning tunneling microscopy. Physical Review B, 2012, 86, .	1.1	22
210	Understanding and Revisiting Properties of EuTiO ₃ Bulk Material and Films from First Principles. Physical Review Letters, 2012, 109, 267602.	2.9	46
211	Thickness-Dependent Polarization of Strained BiFeO ₃ Films with Constant Tetragonality. Physical Review Letters, 2012, 109, 267601.	2.9	58
212	Study of strain effect on in-plane polarization in epitaxial BiFeO ₃ thin films using planar electrodes. Physical Review B, 2012, 85, .	1.1	49
213	Finite-Temperature Properties of BiFeO ₃ /BaTiO ₃ Heterostructures. Physical Review Letters, 2012, 108, 257601.	1.1	30
214	Finite-Temperature Properties of BaZrTiO ₃ Relaxors from First Principles. Physical Review Letters, 2012, 108, 257601.	2.9	157
215	A simple law governing coupled magnetic orders in perovskites. Journal of Physics Condensed Matter, 2012, 24, 312201.	0.7	54
216	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO ₃ thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	0.7	66

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217	Novel complex phenomena in ferroelectric nanocomposites. Journal of Physics Condensed Matter, 2012, 24, 402201.	0.7	34
218	Magnetic Cycloid of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{BiFeO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{from}$ Atomistic Simulations. Physical Review Letters, 2012, 109, 037207.	2.9	82
219	Enhanced electric conductivity at ferroelectric vortex cores in BiFeO ₃ . Nature Physics, 2012, 8, 81-88.	6.5	324
220	Giant direct magnetoelectric effect in strained multiferroic heterostructures. Physical Review B, 2012, 85, .	1.1	18
221	Low-frequency coupled modes in disordered Pb(Zr,Ti)O ₃ solid solutions from first principles. Physical Review B, 2012, 85, .	1.1	10
222	Revisiting Properties of Ferroelectric and Multiferroic Thin Films under Tensile Strain from First Principles. Physical Review Letters, 2012, 109, 057602.	2.9	77
223	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{BiFeO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Films}$ under Tensile Epitaxial Strain from First Principles. Physical Review Letters, 2011, 106, 237601.	2.9	56
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226	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{BiFeO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Films.}$ Physical Review Letters, 2011, 107, 237601.	2.9	88
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232	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{Pb} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Zr} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Ti} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock}$ $\langle \text{mml:math} \rangle \text{Solid Solutions.}$ Physical Review Letters, 2011, 107, 175502.	2.9	15
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