

Laurent Bellaïche

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual phase transitions in ferroelectric nanodisks and nanorods. Nature, 2004, 432, 737-740.	13.7	779
2	Virtual crystal approximation revisited: Application to dielectric and piezoelectric properties of perovskites. Physical Review B, 2000, 61, 7877-7882.	1.1	632
3	Finite-Temperature Properties of $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ Alloys from First Principles. Physical Review Letters, 2000, 84, 5427-5430.	2.9	568
4	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
5	Learning through ferroelectric domain dynamics in solid-state synapses. Nature Communications, 2017, 8, 14736.	5.8	437
6	Quantum Anomalous Hall Effect in Graphene Proximity Coupled to an Antiferromagnetic Insulator. Physical Review Letters, 2014, 112, 116404.	2.9	361
7	Evidence for Room-Temperature Multiferroicity in a Compound with a Giant Axial Ratio. Physical Review Letters, 2009, 102, 217603.	2.9	331
8	Enhanced electric conductivity at ferroelectric vortex cores in BiFeO_3 . Nature Physics, 2012, 8, 81-88.	6.5	324
9	Crafting the magnonic and spintronic response of BiFeO_3 films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	13.3	311
10	Localization and percolation in semiconductor alloys: GaAsN vs GaAsP. Physical Review B, 1996, 54, 17568-17576.	1.1	278
11	Giant Negative Electrocaloric Effect in Antiferroelectric La -Doped $\text{Pb}(\text{ZrTi})\text{O}_3$ Thin Films Near Room Temperature. Advanced Materials, 2015, 27, 3165-3169.	11.1	241
12	Interplay between Kitaev interaction and single ion anisotropy in ferromagnetic CrI_3 and CrGeTe_3 monolayers. Npj Computational Materials, 2018, 4, .	3.5	226
13	Ultrathin Films of Ferroelectric Solid Solutions under a Residual Depolarizing Field. Physical Review Letters, 2004, 93, 196104.	2.9	225
14	Ferroelectricity in Barium Titanate Quantum Dots and Wires. Physical Review Letters, 2003, 91, 257601.	2.9	218
15	Finite-Temperature Properties of Multiferroic BiFeO_3 . Physical Review Letters, 2007, 99, 227602.	2.9	210
16	Coexistence of the Phonon and Relaxation Soft Modes in the Terahertz Dielectric Response of Tetragonal BaTiO_3 . Physical Review Letters, 2008, 101, 167402.	2.9	191
17	Phase Diagram of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ Solid Solutions from First Principles. Physical Review Letters, 2006, 97, 157601.	2.9	189
18	Electric-field induced polarization paths in $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ alloys. Physical Review B, 2001, 64, .	1.1	175

#	ARTICLE	IF	CITATIONS
19	Resonant hole localization and anomalous optical bowing in InGaN alloys. Applied Physics Letters, 1999, 74, 1842-1844.	1.5	173
20	Intermediate temperature scale T^* —in lead-based relaxor systems. Physical Review B, 2009, 80, .	1.1	169
21	Ferroelectricity of Perovskites under Pressure. Physical Review Letters, 2005, 95, 196804.	2.9	168
22	Spin switching and magnetization reversal in single-crystal NdFeO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2013, 87, .	1.1	166
23	Band gaps of GaPN and GaAsN alloys. Applied Physics Letters, 1997, 70, 3558-3560.	1.5	164
24	Intrinsic Piezoelectric Response in Perovskite Alloys: PMN-PT versus PZT. Physical Review Letters, 1999, 83, 1347-1350.	2.9	161
25	First-principles study of $(\text{BiScO}_3)_{1-x}(\text{PbTiO}_3)_x$ piezoelectric alloys. Physical Review B, 2003, 67, .	1.1	161
26	Finite-Temperature Properties of BaZrTiO_3 Relaxors from First-Principles Calculations. Physical Review B, 2008, 78, .	2.9	157
27	Phase stability and structural temperature dependence in powdered multiferroic BiFeO_3 . Physical Review B, 2008, 78, .	1.1	154
28	Discovery of stable skyrmionic state in ferroelectric nanocomposites. Nature Communications, 2015, 6, 8542.	5.8	154
29	Near room-temperature multiferroic materials with tunable ferromagnetic and electrical properties. Nature Communications, 2014, 5, 4021.	5.8	152
30	Designing lead-free antiferroelectrics for energy storage. Nature Communications, 2017, 8, 15682.	5.8	149
31	Bridging Multiferroic Phase Transitions by Epitaxial Strain in BiFeO_3 . Physical Review Letters, 2010, 105, 057601.	2.9	147
32	Topological spin texture in Janus monolayers of the chromium trihalides CrI_3 . Physical Review B, 2020, 101, .	1.1	146
33	Composition dependence of interband transition intensities in GaPN, GaAsN, and GaPAs alloys. Physical Review B, 1997, 56, 10233-10240.	1.1	137
34	Atomistic treatment of depolarizing energy and field in ferroelectric nanostructures. Physical Review B, 2005, 72, .	1.1	132
35	Terahertz dielectric response of cubic BaTiO_3 . Physical Review B, 2008, 77, .	1.1	125
36	Combined theoretical and experimental study of the low-temperature properties of BaZrO_3 . Physical Review B, 2005, 72, .	1.1	123

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37	Ferromagnetism in multiferroic BiFeO_3 . A first-principles-based study. Physical Review B, 2010, 81, .	11.6	111
38	Properties of hexagonal ScN versus wurtzite GaN and InN. Physical Review B, 2002, 66, .	1.1	111
39	Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. Advanced Materials, 2017, 29, 1702375.	11.1	110
40	Electric-Field-Induced Domain Evolution in Ferroelectric Ultrathin Films. Physical Review Letters, 2006, 96, 137602.	2.9	107
41	Controlling Toroidal Moment by Means of an Inhomogeneous Static Field: An Ab Initio Study. Physical Review Letters, 2006, 96, 237601.	2.9	106
42	Effects of atomic short-range order on the electronic and optical properties of GaAsN, GaInN, and GaInAs alloys. Physical Review B, 1998, 57, 4425-4431.	1.1	101
43	Majority Representation of Alloy Electronic States. Physical Review Letters, 1998, 80, 4725-4728.	2.9	101
44	Low-dimensional ferroelectrics under different electrical and mechanical boundary conditions: Atomistic simulations. Physical Review B, 2005, 72, .	1.1	101
45	Novel Nanoscale Twinned Phases in Perovskite Oxides. Advanced Functional Materials, 2013, 23, 234-240.	7.8	101
46	Structural Phase Transition and Material Properties of Few-Layer Monochalcogenides. Physical Review Letters, 2016, 117, 246802.	2.9	101
47	Coexistence of ferroelectric triclinic phases in highly strained BiFeO_3 films. Physical Review B, 2011, 84, .	1.1	99
48	Low-Temperature Properties of $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ Solid Solutions near the Morphotropic Phase Boundary. Ferroelectrics, 2002, 266, 41-56.	0.3	95
49	High-Pressure Effect on PbTiO_3 : An Investigation by Raman and X-Ray Scattering up to 63 GPa. Physical Review Letters, 2008, 101, 237601.	2.9	95
50	Field-Induced Percolation of Polar Nanoregions in Relaxor Ferroelectrics. Physical Review Letters, 2013, 110, 207601.	2.9	95
51	Competing phases in BiFeO_3 films under compressive epitaxial strain. Physical Review B, 2010, 81, .	11.6	93
52	A multiferroic on the brink: Uncovering the nuances of strain-induced transitions in BiFeO_3 . Applied Physics Reviews, 2016, 3, 011106.	5.5	91
53	Original properties of dipole vortices in zero-dimensional ferroelectrics. Journal of Physics Condensed Matter, 2008, 20, 193201.	0.7	89
54	Electrostatic Model of Atomic Ordering in Complex Perovskite Alloys. Physical Review Letters, 1998, 81, 1318-1321.	2.9	88

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55	Phase diagrams of epitaxial BaTiO ₃ ultrathin films from first principles. Applied Physics Letters, 2005, 86, 132904.	1.5	88
56	Multiferroic Phase Transition near Room Temperature in BiFeO_3 Films. Physical Review Letters, 2011, 107, 237601.	2.9	88
57	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO ₃ . Nature Communications, 2016, 7, 10718.	5.8	88
58	Possible Kitaev Quantum Spin Liquid State in 2D Materials with S_3 Symmetry. Physical Review Letters, 2020, 124, 087205.	2.9	88
59	Anomalous properties in ferroelectrics induced by atomic ordering. Nature, 2001, 413, 54-57.	13.7	86
60	Giant Room-Temperature Elastocaloric Effect in Ferroelectric Ultrathin Films. Advanced Materials, 2014, 26, 6132-6137.	11.1	86
61	Electric-Field Switching of Magnetic Topological Charge in Type-I Multiferroics. Physical Review Letters, 2020, 125, 037203.	2.9	86
62	Emergence of skyrmionium in a two-dimensional CrGeTe_3 Janus monolayer. Physical Review B, 2020, 102, .	1.1	86
63	Universal collaborative couplings between oxygen-octahedral rotations and antiferroelectric distortions in perovskites. Physical Review B, 2013, 88, .	1.1	83
64	Magnetic Cycloid of BiFeO_3 from Atomistic Simulations. Physical Review Letters, 2012, 109, 037207.	2.9	82
65	Finite-temperature properties of (Ba,Sr)TiO ₃ systems from atomistic simulations. Physical Review B, 2006, 73, .	1.1	80
66	High-density switchable skyrmion-like polar nanodomains integrated on silicon. Nature, 2022, 603, 63-67.	13.7	79
67	Finite-Temperature Properties of Rare-Earth-Substituted BiFeO_3 Multiferroic Solid Solutions. Advanced Functional Materials, 2015, 25, 552-558.	7.8	78
68	Revisiting Properties of Ferroelectric and Multiferroic Thin Films under Tensile Strain from First Principles. Physical Review Letters, 2012, 109, 057602.	2.9	77
69	Pseudopotential theory of dilute III-V nitrides. Semiconductor Science and Technology, 2002, 17, 851-859.	1.0	76
70	Electrocaloric effect in bulk and low-dimensional ferroelectrics from first principles. Physical Review B, 2008, 78, .	1.1	76
71	Geometric frustration in compositionally modulated ferroelectrics. Nature, 2011, 470, 513-517.	13.7	75
72	Characteristics and signatures of dipole vortices in ferroelectric nanodots: First-principles-based simulations and analytical expressions. Physical Review B, 2007, 75, .	1.1	73

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73	First-principles study of the multimode antiferroelectric transition in PbZrO_3 . Physical Review B, 2014, 90, .	1.1	73
74	Predicting a Ferrimagnetic Phase of Zn_2Mn with Strong Magnetoelectric Coupling. Physical Review Letters, 2015, 114, 147204.	2.9	73
75	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. Nature, 2020, 577, 47-51.	13.7	71
76	Band gaps of lattice-matched (Ga,In)(As,N) alloys. Applied Physics Letters, 1999, 75, 2578-2580.	1.5	70
77	Photostrictive Two-Dimensional Materials in the Monochalcogenide Family. Physical Review Letters, 2017, 118, 227401.	2.9	70
78	Strained Hexagonal ScN: A Material with Unusual Structural and Optical Properties. Physical Review Letters, 2003, 90, 257602.	2.9	69
79	Microscopic origins of the large piezoelectricity of leadfree (Ba,Ca)(Zr,Ti)O ₃ . Nature Communications, 2017, 8, 15944.	5.8	69
80	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. Physical Review B, 2020, 101, .	1.1	69
81	Phase diagrams of $\text{Ba}_x\text{Ti}_{1-x}\text{O}_3$ superlattices. Physical Review B, 2013, 87, .	1.1	67
82	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO_3 thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	0.7	66
83	Atomic control of strain in freestanding graphene. Physical Review B, 2012, 85, .	1.1	65
84	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
85	First-Principles Determination of Electromechanical Responses of Solids under Finite Electric Fields. Physical Review Letters, 2003, 91, 057601.	2.9	62
86	High-pressure phases in highly piezoelectric $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$. Physical Review B, 2004, 69, .	1.1	62
87	Electric-Field-Induced Paths in Multiferroic BiFeO_3 from Atomistic Simulations. Physical Review Letters, 2009, 103, 047204.	2.9	62
88	Low-Symmetry Phases in Ferroelectric Nanowires. Nano Letters, 2010, 10, 1177-1183.	4.5	62
89	Origin of the magnetization and compensation temperature in rare-earth orthoferrites and orthochromates. Physical Review B, 2016, 93, .	1.1	59
90	Thickness-Dependent Polarization of Strained BiFeO_3 Films with Constant Tetragonality. Physical Review Letters, 2012, 109, 267601.	2.9	58

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91	Heterovalent and A-atom effects in $\text{A}(\text{B}^2\text{B}^3)\text{O}_3$ perovskite alloys. Physical Review B, 1999, 59, 1834-1839.	1.1	57
92	Fano resonance and dipolar relaxation in lead-free relaxors. Nature Communications, 2014, 5, 5100.	5.8	57
93	Systematic pseudopotentials from reference eigenvalue sets for DFT calculations. Computational Materials Science, 2015, 98, 372-389.	1.4	57
94	Room-temperature paramagnetoelectric effect in magnetoelectric multiferroics $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ and its solid solution with PbTiO_3 . Journal of Materials Science, 2016, 51, 5330-5342.	1.7	57
95	Atomistic simulations of the incipient ferroelectric KTaO_3 . Physical Review B, 2004, 70, .	1.1	56
96	$\langle \text{BiFeO}_3 \rangle$ Films under Tensile Epitaxial Strain from First Principles. Physical Review Letters, 2011, 106, 237601.	2.9	56
97	Prediction of a Novel Magnetoelectric Switching Mechanism in Multiferroics. Physical Review Letters, 2014, 112, 057202.	2.9	55
98	Topological Defects with Distinct Dipole Configurations in $\langle \text{PbTiO}_3 \rangle$ Multilayer Films. Physical Review Letters, 2018, 120, 177601.	2.9	55
99	Intrinsic Origin of Enhancement of Ferroelectricity in SnTe Ultrathin Films. Physical Review Letters, 2018, 121, 027601.	2.9	55
100	A simple law governing coupled magnetic orders in perovskites. Journal of Physics Condensed Matter, 2012, 24, 312201.	0.7	54
101	Ferroelectric Domains in Multiferroic $\langle \text{BiFeO}_3 \rangle$ Films under Epitaxial Strains. Physical Review Letters, 2013, 110, 187601.	2.9	54
102	Subterahertz dielectric relaxation in lead-free $\text{Ba}(\text{Zr,Ti})\text{O}_3$ relaxor ferroelectrics. Nature Communications, 2016, 7, 11014.	5.8	54
103	Improper electric polarization in simple perovskite oxides with two magnetic sublattices. Nature Communications, 2017, 8, 14025.	5.8	53
104	Atomistic theory of hybrid improper ferroelectricity in perovskites. Physical Review B, 2014, 89, .	1.1	51
105	Photostriction in Ferroelectrics from Density Functional Theory. Physical Review Letters, 2016, 116, 247401.	2.9	51
106	Properties of rare-earth iron garnets from first principles. Physical Review B, 2017, 95, .	1.1	50
107	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. Physical Review Letters, 2019, 123, 217602.	2.9	50
108	Study of strain effect on in-plane polarization in epitaxial $\langle \text{BiFeO}_3 \rangle$ thin films using planar electrodes. Physical Review B, 2012, 86, .	1.1	49

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109	Hybrid Improper Ferroelectricity in Multiferroic Superlattices: Finite-Temperature Properties and Electric-Field-Driven Switching of Polarization and Magnetization. <i>Advanced Functional Materials</i> , 2015, 25, 3626-3633.	7.8	49
110	Finite-temperature properties of the relaxor $\text{PbMg}_{1-x}\text{O}_3$ from atomistic simulations. <i>Physical Review B</i> , 2015, 91, .	1.1	49
111	Cationic-competition-induced monoclinic phase in high piezoelectric $(\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3)_{1-x}(\text{PbTiO}_3)_x$ compounds. <i>Physical Review B</i> , 2003, 68, .	1.1	48
112	Conformational Domain Wall Switch. <i>Advanced Functional Materials</i> , 2019, 29, 1807523.	7.8	47
113	Understanding and Revisiting Properties of EuTiO_3 Bulk Material and Films from First Principles. <i>Physical Review Letters</i> , 2012, 109, 267602.	2.9	46
114	Epitaxial ferroelectric oxide thin films for optical applications. <i>Applied Physics Reviews</i> , 2018, 5, 041108.	5.5	46
115	Piezoelectricity of ferroelectric perovskites from first principles. <i>Current Opinion in Solid State and Materials Science</i> , 2002, 6, 19-25.	5.6	45
116	Thickness dependency of 180° stripe domains in ferroelectric ultrathin films: A first-principles-based study. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	45
117	Anomalous properties of hexagonal rare-earth ferrites from first principles. <i>Physical Review B</i> , 2014, 89, .	1.1	45
118	Rules and mechanisms governing octahedral tilts in perovskites under pressure. <i>Physical Review B</i> , 2017, 96, .	1.1	45
119	Electronic and magnetic properties of MnN versus MnAs. <i>Applied Physics Letters</i> , 2003, 82, 766-768.	1.5	44
120	Nature of the ferroelectric phase transition in multiferroic BiFeO_3 from first principles. <i>Physical Review B</i> , 2009, 79, .	1.1	44
121	Shape-induced phase transition of domain patterns in ferroelectric platelets. <i>Physical Review B</i> , 2011, 84, .	1.1	44
122	Ultrafast Switching of the Electric Polarization and Magnetic Chirality in BiFeO_3 by an Electric Field. <i>Physical Review Letters</i> , 2014, 112, 147601.	2.9	44
123	Strain effects on multiferroic BiFeO_3 films. <i>Comptes Rendus Physique</i> , 2015, 16, 193-203.	0.3	44
124	The nature of ferroelectricity under pressure. <i>Phase Transitions</i> , 2007, 80, 385-413.	0.6	43
125	Full field electron spectromicroscopy applied to ferroelectric materials. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	43
126	Cooperative Couplings between Octahedral Rotations and Ferroelectricity in Perovskites and Related Materials. <i>Physical Review Letters</i> , 2018, 120, 197602.	2.9	43

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127	Properties of multiferroic BiFeO_3 at high magnetic fields from first principles. Physical Review B, 2009, 79, .	1.1	41
128	Natural optical activity and its control by electric field in electrotoroidic systems. Physical Review B, 2013, 87, .	1.1	42
129	Asymmetric screening of the depolarizing field in a ferroelectric thin film. Physical Review B, 2007, 75, .	1.1	41
130	Magnetoelectricity in BiFeO_3 films: First-principles-based computations and phenomenology. Physical Review B, 2011, 83, .	1.1	41
131	Ultrathin Films under Open-Circuit Electrical Boundary Conditions. Physical Review Letters, 2011, 106, 196102.	2.9	41
132	Properties of Epitaxial Films Made of Relaxor Ferroelectrics. Physical Review Letters, 2013, 111, 247602.	2.9	41
133	Driving Spin Excitations by Hydrostatic Pressure in BiFeO_3 . Physical Review Letters, 2015, 115, 267204.	2.9	41
134	Relativistic interaction Hamiltonian coupling the angular momentum of light and the electron spin. Physical Review B, 2015, 92, .	1.1	41
135	Pinched hysteresis loop in defect-free ferroelectric materials. Physical Review B, 2016, 94, .	1.1	41
136	Effects of chemical and hydrostatic pressures on structural, magnetic, and electronic properties of BiFeO_3 . Physical Review B, 2016, 94, .	1.1	41

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145	Phase Transitions in Epitaxial BiFeO_3 Films from First Principles. <i>Physical Review Letters</i> , 2011, 107, 117602.	2.9	37
146	Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018, 4, eaar4298.	4.7	37
147	Topology and control of self-assembled domain patterns in low-dimensional ferroelectrics. <i>Nature Communications</i> , 2020, 11, 5779.	5.8	37
148	Dzyaloshinskii-Moriya-like interaction in ferroelectrics and antiferroelectrics. <i>Nature Materials</i> , 2021, 20, 341-345.	13.3	37
149	Symmetry Modulation and Enhanced Multiferroic Characteristics in $\text{Bi}_{1-x}\text{Nd}_x\text{FeO}_3$ Ceramics. <i>Advanced Functional Materials</i> , 2019, 29, 1806399.	7.8	36
150	Order-disorder transition in the prototypical antiferroelectric PbZrO_3 . <i>Physical Review B</i> , 2019, 100, .	2.9	35
151	Purely Cubic Spin Splittings with Persistent Spin Textures. <i>Physical Review Letters</i> , 2020, 125, 216405.	2.9	35
152	Anisotropic epitaxial stabilization of a low-symmetry ferroelectric with enhanced electromechanical response. <i>Nature Materials</i> , 2022, 21, 74-80.	13.3	35
153	Properties of Ferroelectric Nanodots Embedded in a Polarizable Medium: Atomistic Simulations. <i>Physical Review Letters</i> , 2006, 97, 167601.	2.9	34
154	Novel complex phenomena in ferroelectric nanocomposites. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 402201.	0.7	34
155	Large Elasto-Optic Effect in Epitaxial PbTiO_3 . <i>Physical Review Letters</i> , 2015, 115, 267602.	2.9	34
156	Ferroelectricity with Asymmetric Hysteresis in Metallic Ultrathin Films. <i>Physical Review Letters</i> , 2019, 122, 227601.	2.9	34
157	Effect of chemical and hydrostatic pressures on structural and magnetic properties of rare-earth orthoferrites: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 466002.	0.7	33
158	Towards multicaloric effect with ferroelectrics. <i>Physical Review B</i> , 2016, 94, .	1.1	33
159	Expansion of the spin cycloid in multiferroic BiFeO_3 thin films. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	33
160	Isostructural phase transition in InN wurtzite. <i>Physical Review B</i> , 1996, 54, 8945-8949.	1.1	32
161	Microscopic View of a Two-Dimensional Lattice-Gas Ising System within the Grand Canonical Ensemble. <i>Physical Review Letters</i> , 2000, 84, 4152-4155.	2.9	32
162	Dielectric Anomalies in Ferroelectric Nanostructures. <i>Physical Review Letters</i> , 2007, 99, 227601.	2.9	32

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163	Dependence of Curie temperature on the thickness of an ultrathin ferroelectric film. <i>Physical Review B</i> , 2010, 81, .	1.1	32
164	Effect of chemical pressure, misfit strain and hydrostatic pressure on structural and magnetic behaviors of rare-earth orthochromates. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 385604.	0.7	32
165	Nanodomains and nanometer-scale disorder in multiferroic bismuth ferrite single crystals. <i>Acta Materialia</i> , 2015, 82, 356-368.	3.8	32
166	Energetics of oxygen-octahedra rotations in perovskite oxides from first principles. <i>Physical Review B</i> , 2018, 97, .	1.1	32
167	Quantum mechanical effects in (Ga,In)(As,N) alloys. <i>Physical Review B</i> , 2000, 62, 10847-10851.	1.1	31
168	Tuning the Weak Ferromagnetic States in Dysprosium Orthoferrite. <i>Scientific Reports</i> , 2016, 6, 37529.	1.6	31
169	Electric-Field Control of Magnetization, Jahn-Teller Distortion, and Orbital Ordering in Ferroelectric Ferromagnets. <i>Physical Review Letters</i> , 2019, 122, 247701.	2.9	31
170	Epitaxial short-period $\text{PbTiO}_3/\text{BiFeO}_3$ superlattices studied by first-principles calculations. <i>Physical Review B</i> , 2012, 86, .	1.1	30
171	Predicted Coupling of the Electromagnetic Angular Momentum Density with Magnetic Moments. <i>Physical Review Letters</i> , 2013, 110, 137205.	2.9	30
172	Deterministic Switching of Ferroelectric Bubble Nanodomains. <i>Advanced Functional Materials</i> , 2019, 29, 1808573.	7.8	30
173	Rashba-like spin-orbit and strain effects in tetragonal PbTiO_3 . <i>Physical Review B</i> , 2019, 100, .	1.1	29
174	<i>Ab initio</i> approach to photostriction in classical ferroelectric materials. <i>Physical Review B</i> , 2017, 96, .	1.1	28
175	Strain engineering of electro-optic constants in ferroelectric materials. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	28
176	Prediction of a stable post-post-perovskite structure from first principles. <i>Physical Review B</i> , 2015, 91, .	1.1	27
177	Ultrafast Neuromorphic Dynamics Using Hidden Phases in the Prototype of Relaxor Ferroelectrics. <i>Physical Review Letters</i> , 2021, 126, 027602.	2.9	27
178	Kittel Law in BiFeO_3 Ultrathin Films: A First-Principles-Based Study. <i>Physical Review Letters</i> , 2010, 105, 147603.	1.9	26
179	Unusual Thermodynamic Properties and Nonergodicity in Ferroelectric Superlattices. <i>Physical Review Letters</i> , 2003, 91, 116103.	2.9	25
180	Nature of Dynamical Coupling between Polarization and Strain in Nanoscale Ferroelectrics from First Principles. <i>Physical Review Letters</i> , 2008, 101, 197602.	2.9	25

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181	Strain-induced control of domain wall morphology in ultrathin PbTiO_3 films. Physical Review B, 2014, 89, .	1.1	25
182	Pressure-Induced Multiferroics via Pseudo Jahn-Teller Effects and Novel Couplings. Advanced Functional Materials, 2017, 27, 1604513.	7.8	25
183	Assembling Diverse Skyrmionic Phases in Fe_3GeTe_2 Monolayers. Advanced Materials, 2022, 34, e2107779.	11.1	25
184	Piezoelectricity of ordered $(\text{Ga}_{0.5}\text{In}_{0.5})\text{N}$ alloys. Applied Physics Letters, 2001, 79, 2166-2168.	1.5	24
185	Effects of vacancies on the properties of disordered ferroelectrics: A first-principles study. Physical Review B, 2007, 75, .	1.1	24
186	Hypertoroidal moment in complex dipolar structures. Journal of Materials Science, 2009, 44, 5235-5248.	1.7	24
187	Improper ferroelectricity at antiferromagnetic domain walls of perovskite oxides. Physical Review B, 2017, 96, .	1.1	24
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