

# Nicola A Spaldin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

228  
papers

37,943  
citations

80  
h-index

194  
g-index

250  
ext. papers

41,547  
ext. citations

8.7  
avg, IF

7.91  
L-index

#	Paper	IF	Citations
228	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering.. <i>Science Advances</i> , <b>2022</b> , 8, eabg5860	14.3	3
227	Magnetolectric effect in hydrogen harvesting: magnetic field as a trigger of catalytic reactions.. <i>Advanced Materials</i> , <b>2022</b> , e2110612	24	4
226	Hidden k-Space Magnetolectric Multipoles in Nonmagnetic Ferroelectrics.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 116402	7.4	0
225	Oxygen vacancies in strontium titanate: A DFT+DMFT study. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
224	Layer and spontaneous polarizations in perovskite oxides and their interplay in multiferroic bismuth ferrite. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 154702	3.9	5
223	Analogy between the Magnetic Dipole Moment at the Surface of a Magnetolectric and the Electric Charge at the Surface of a Ferroelectric. <i>Journal of Experimental and Theoretical Physics</i> , <b>2021</b> , 132, 493-505	1.5	2
222	Magnetolectric coupling of domains, domain walls and vortices in a multiferroic with independent magnetic and electric order. <i>Nature Communications</i> , <b>2021</b> , 12, 3093	17.4	5
221	On the happiness of ferroelectric surfaces and its role in water dissociation: The example of bismuth ferrite. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 024702	3.9	8
220	Interplay between ferroelectricity and metallicity in BaTiO. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 8640-8649	7.1	2
219	ANALOGY BETWEEN THE MAGNETIC DIPOLE MOMENT AT THE SURFACE OF A MAGNETOELECTRIC AND THE ELECTRIC CHARGE AT THE SURFACE OF A FERROELECTRIC. <i>Journal of Experimental and Theoretical Physics</i> , <b>2021</b> , 159, 594-597	1	2
218	Local Electronic Structure and Dynamics of Muon-Polaron Complexes in Fe <sub>2</sub> O <sub>3</sub> . <i>Physical Review Letters</i> , <b>2021</b> , 126, 037202	7.4	3
217	Comparison of coherent phonon generation by electronic and ionic Raman scattering in LaAlO <sub>3</sub> . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	4
216	Crystal responses to general dark matter-electron interactions. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	5
215	Revealing hidden magnetolectric multipoles using Compton scattering. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
214	Concepts from the linear magnetolectric effect that might be useful for antiferromagnetic spintronics. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 213905	2.5	12
213	Manifestation of structural Higgs and Goldstone modes in the hexagonal manganites. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
212	Unconventional Spin Relaxation Involving Localized Vibrational Modes in Ho Single-Atom Magnets. <i>Physical Review Letters</i> , <b>2020</b> , 124, 077204	7.4	13

211	Multiferroics beyond electric-field control of magnetism. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2020</b> , 476, 20190542	2.4	40
210	Observation of a Charge-Neutral Muon-Polaron Complex in Antiferromagnetic Cr <sub>2</sub> O <sub>3</sub> . <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	2
209	Atomic responses to general dark matter-electron interactions. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	28
208	Phono-magnetic analogs to opto-magnetic effects. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	17
207	Theoretical investigation of twin boundaries in WO <sub>3</sub> : Structure, properties, and implications for superconductivity. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
206	In-situ monitoring of interface proximity effects in ultrathin ferroelectrics. <i>Nature Communications</i> , <b>2020</b> , 11, 5815	17.4	11
205	Interface and surface stabilization of the polarization in ferroelectric thin films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 28589-28595	11.5	15
204	Longitudinal and transverse electron paramagnetic resonance in a scanning tunneling microscope. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	11
203	Making EuO multiferroic by epitaxial strain engineering. <i>Communications Materials</i> , <b>2020</b> , 1,	6	11
202	DFT+DMFT study of oxygen vacancies in a Mott insulator. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
201	Dynamical Magnetic Field Accompanying the Motion of Ferroelectric Domain Walls. <i>Physical Review Letters</i> , <b>2019</b> , 123, 127601	7.4	15
200	Depolarizing-Field Effects in Epitaxial Capacitor Heterostructures. <i>Physical Review Letters</i> , <b>2019</b> , 123, 147601	7.4	19
199	Emergent room temperature polar phase in CaTiO <sub>3</sub> nanoparticles and single crystals. <i>APL Materials</i> , <b>2019</b> , 7, 011103	5.7	7
198	Dynamic Multiferroicity of a Ferroelectric Quantum Critical Point. <i>Physical Review Letters</i> , <b>2019</b> , 122, 057208	7.4	9
197	Origin and evolution of ferroelectricity in the layered rare-earth-titanate, R <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> , Carpy-Galy phases. <i>Polyhedron</i> , <b>2019</b> , 171, 181-192	2.7	3
196	Unconventional Continuous Structural Disorder at the Order-Disorder Phase Transition in the Hexagonal Manganites. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	10
195	Strain-induced heteronuclear charge disproportionation in EuMnO <sub>3</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	1
194	Orbital magnetic moments of phonons. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	32

193	Ultrafast transient increase of oxygen octahedral rotations in a perovskite. <i>Physical Review Research</i> , <b>2019</b> , 1,	3.9	8
192	Advances in magnetoelectric multiferroics. <i>Nature Materials</i> , <b>2019</b> , 18, 203-212	27	606
191	The ultrathin limit of improper ferroelectricity. <i>Nature Communications</i> , <b>2019</b> , 10, 5591	17.4	24
190	Multiferroic quantum criticality. <i>Nature Materials</i> , <b>2019</b> , 18, 223-228	27	30
189	Search for the Magnetic Monopole at a Magnetoelectric Surface. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	11
188	Strain and ferroelectric soft-mode induced superconductivity in strontium titanate. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	22
187	Multiferroic Magnetic Spirals Induced by Random Magnetic Exchanges. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	6
186	Magnetophononics: Ultrafast spin control through the lattice. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	23
185	Correlated local dipoles in PbTe. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	25
184	Relationship between crystal structure and multiferroic orders in orthorhombic perovskite manganites. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	10
183	Oxygen vacancies in the bulk and at neutral domain walls in hexagonal YMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	16
182	Evidence of Incoherent Carriers Associated with Resonant Impurity Levels and Their Influence on Superconductivity in the Anomalous Superconductor Pb <sub>1-x</sub> Tl <sub>x</sub> Te. <i>Physical Review Letters</i> , <b>2018</b> , 121, 207001	7.4	3
181	Four-spin ring interaction as a source of unconventional magnetic orders in orthorhombic perovskite manganites. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	3
180	Emphanitic anharmonicity in PbSe at high temperature and anomalous electronic properties in the PbQ(Q=S,Se,Te) system. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	17
179	Magnetoelectric multipoles in metals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2018</b> , 376,	3	19
178	Strain-Engineered Oxygen Vacancies in CaMnO Thin Films. <i>Nano Letters</i> , <b>2017</b> , 17, 794-799	11.5	64
177	Ultrafast Structure Switching through Nonlinear Phononics. <i>Physical Review Letters</i> , <b>2017</b> , 118, 054101	7.4	51
176	Defect Chemistry as a Crystal Structure Design Parameter: Intrinsic Point Defects and Ga Substitution in InMnO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2425-2434	9.6	23

175	A density functional theory study of the influence of exchange-correlation functionals on the properties of FeAs. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 215604	1.8	4
174	Multiferroics: Past, present, and future. <i>MRS Bulletin</i> , <b>2017</b> , 42, 385-390	3.2	81
173	Functional electronic inversion layers at ferroelectric domain walls. <i>Nature Materials</i> , <b>2017</b> , 16, 622-627	27	92
172	Global Formation of Topological Defects in the Multiferroic Hexagonal Manganites. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	30
171	Sounding out optical phonons. <i>Science</i> , <b>2017</b> , 357, 873-874	33.3	6
170	On the relationship between topological and geometric defects. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 343001	1.8	5
169	Dynamical multiferroicity. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	55
168	Fermi surface evolution of Na-doped PbTe studied through density functional theory calculations and Shubnikov-De Haas measurements. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	11
167	Quasistatic magnetoelectric multipoles as order parameter for pseudogap phase in cuprate superconductors. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	29
166	First-principles calculation and experimental investigation of lattice dynamics in the rare-earth pyrochlores R <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> (R=Tb,Dy,Ho). <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	20
165	Magnetoelastic control of magnetism in an artificial multiferroic. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
164	Ab initio study of the ferroelectric strain dependence and 180° domain walls in the barium metal fluorides BaMgF <sub>4</sub> and BaZnF <sub>4</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	7
163	A bespoke single-band Hubbard model material. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	4
162	Origin of ferroelectric polarization in tetragonal tungsten-bronze-type oxides. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	30
161	First-principles calculation of the bulk magnetoelectric monopole density: Berry phase and Wannier function approaches. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	18
160	The valence band electronic structure of rhombohedral-like and tetragonal-like BiFeO <sub>3</sub> thin films from hard X-ray photoelectron spectroscopy and first-principles theory. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2016</b> , 208, 63-66	1.7	7
159	Interplay between strain, defect charge state, and functionality in complex oxides. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 031901	3.4	23
158	Coupling and competition between ferroelectricity, magnetism, strain, and oxygen vacancies in AMnO <sub>3</sub> perovskites. <i>MRS Communications</i> , <b>2016</b> , 6, 182-191	2.7	42

157	Effects of intense optical phonon pumping on the structure and electronic properties of yttrium barium copper oxide. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	22
156	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 433001	3	204
155	Strain-induced structural instability in FeRh. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	30
154	Find your most interesting question. <i>Science</i> , <b>2015</b> , 349, 110	33.3	1
153	Separating different contributions to the crystal-field parameters using Wannier functions. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 175503	1.8	8
152	Biquadratic and ring exchange interactions in orthorhombic perovskite manganites. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	36
151	Effect of epitaxial strain on cation and anion vacancy formation in MnO. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	21
150	Strain-induced magnetic anisotropy in epitaxial thin films of the spinel CoCr <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	31
149	Quantum Critical Origin of the Superconducting Dome in SrTiO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 115, 247002	7.4	97
148	Strain-induced coupling of electrical polarization and structural defects in SrMnO <sub>3</sub> films. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 661-5	28.7	119
147	Large resistivity modulation in mixed-phase metallic systems. <i>Nature Communications</i> , <b>2015</b> , 6, 5959	17.4	132
146	Incommensurate magnetic structure, Fe/Cu chemical disorder, and magnetic interactions in the high-temperature multiferroic YBaCuFeO <sub>5</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	29
145	Geometric ferroelectricity in fluoroperovskites. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	48
144	Competition and cooperation between antiferrodistortive and ferroelectric instabilities in the model perovskite SrTiO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 122203	1.8	68
143	Landau theory of topological defects in multiferroic hexagonal manganites. <i>Nature Materials</i> , <b>2014</b> , 13, 42-9	27	128
142	Perovskite-structure TlMnO <sub>3</sub> a new manganite with new properties. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 9800-8.1	8.1	13
141	Magnetic field generated by a charge in a uniaxial magnetoelectric material. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	11
140	Duality of topological defects in hexagonal manganites. <i>Physical Review Letters</i> , <b>2014</b> , 113, 267602	7.4	30

139	Nonlinear lattice dynamics as a basis for enhanced superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> . <i>Nature</i> , <b>2014</b> , 516, 71-3	50.4	294
138	Strain-controlled oxygen vacancy formation and ordering in CaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	250
137	Quantification of octahedral rotations in strained LaAlO <sub>3</sub> films via synchrotron x-ray diffraction. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	35
136	Strong coupling of Jahn-Teller distortion to oxygen-octahedron rotation and functional properties in epitaxially strained orthorhombic LaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	67
135	Materials science. Functional ion defects in transition metal oxides. <i>Science</i> , <b>2013</b> , 341, 858-9	33.3	199
134	Translation domains in multiferroics. <i>Phase Transitions</i> , <b>2013</b> , 86, 33-52	1.3	15
133	Structural domain walls in polar hexagonal manganites. <i>Nature Communications</i> , <b>2013</b> , 4, 1540	17.4	85
132	Novel Nanorod Precipitate Formation in Neodymium and Titanium Codoped Bismuth Ferrite. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 683-689	15.6	26
131	Monopole-based formalism for the diagonal magnetoelectric response. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	61
130	Structural and optoelectronic characterization of RF sputtered ZnSnN(2). <i>Advanced Materials</i> , <b>2013</b> , 25, 2562-6	24	129
129	Linear magnetoelectric effect by orbital magnetism. <i>Physical Review Letters</i> , <b>2012</b> , 109, 197203	7.4	44
128	First-principles prediction of oxygen octahedral rotations in perovskite-structure EuTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	49
127	A beginner's guide to the modern theory of polarization. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 195, 2-10	3.3	225
126	Scaling Behavior and Beyond Equilibrium in the Hexagonal Manganites. <i>Physical Review X</i> , <b>2012</b> , 2,	9.1	88
125	Noncollinear magnetism and single-ion anisotropy in multiferroic perovskites. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	74
124	Anisotropic conductance at improper ferroelectric domain walls. <i>Nature Materials</i> , <b>2012</b> , 11, 284-8	27	347
123	Ab initio investigation of FeAs/GaAs heterostructures for potential spintronic and superconducting applications. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	5
122	Observation of persistent centrosymmetry in the hexagonal manganite family. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	50

121	Band alignment at metal/ferroelectric interfaces: Insights and artifacts from first principles. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	104
120	Stress-induced $R\bar{3}m\bar{1}C2/m$ symmetry changes in BiFeO <sub>3</sub> films. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	203
119	High-temperature multiferroicity and strong magnetocrystalline anisotropy in 3d-5d double perovskites. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	39
118	Structure and properties of functional oxide thin films: insights from electronic-structure calculations. <i>Advanced Materials</i> , <b>2011</b> , 23, 3363-81	24	284
117	Induced magnetoelectric response in Pnma perovskites. <i>Physical Review Letters</i> , <b>2011</b> , 107, 197603	7-4	53
116	Physics. Shedding light on oxide interfaces. <i>Science</i> , <b>2011</b> , 332, 922-3	33-3	24
115	Unexpectedly large electronic contribution to linear magnetoelectricity. <i>Physical Review Letters</i> , <b>2011</b> , 106, 107202	7-4	46
114	A multiferroic material to search for the permanent electric dipole moment of the electron. <i>Nature Materials</i> , <b>2010</b> , 9, 649-54	27	77
113	Unusual dielectric response in B-site size-disordered hexagonal transition metal oxides. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 162903	3-4	12
112	Theoretical study of Schottky-barrier formation at epitaxial rare-earth-metal/semiconductor interfaces. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	30
111	Strain-induced ferroelectricity in simple rocksalt binary oxides. <i>Physical Review Letters</i> , <b>2010</b> , 104, 037604	7-4	104
110	Chemical control of polar behavior in bicomponent short-period superlattices. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	14
109	Structural phases of strained LaAlO <sub>3</sub> driven by octahedral tilt instabilities. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	59
108	Quantifying octahedral rotations in strained perovskite oxide films. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	264
107	Electron-lattice instabilities suppress cuprate-like electronic structures in SrFeO <sub>3</sub> /SrTiO <sub>3</sub> superlattices. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	20
106	LiMSO <sub>4</sub> F (M = Fe, Co and Ni): promising new positive electrode materials through the DFT microscope. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 15512-22	3-6	59
105	Substrate coherency driven octahedral rotations in perovskite oxide films. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	84
104	J dependence in the LSDA+U treatment of noncollinear magnets. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	51



103	Strain-induced isosymmetric phase transition in BiFeO <sub>3</sub> . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	225
102	Entropically stabilized local dipole formation in lead chalcogenides. <i>Science</i> , <b>2010</b> , 330, 1660-3	33.3	254
101	Temperature-dependent magnetoelectric effect from first principles. <i>Physical Review Letters</i> , <b>2010</b> , 105, 087202	7.4	69
100	Electric and magnetic polarizabilities of hexagonal Ln <sub>2</sub> CuTiO <sub>6</sub> (Ln=Y, Dy, Ho, Er, and Yb). <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	16
99	Multiferroics: Past, present, and future. <i>Physics Today</i> , <b>2010</b> , 63, 38-43	0.9	706
98	Multiferroics: progress and prospects in thin films <b>2009</b> , 20-28		13
97	First-principles modeling of ferroelectric capacitors via constrained displacement field calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	57
96	Non-d0 Mn-driven ferroelectricity in antiferromagnetic BaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	142
95	Structural effects on the spin-state transition in epitaxially strained LaCoO <sub>3</sub> films. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	81
94	Role of atomic multiplets in the electronic structure of rare-earth semiconductors and semimetals. <i>Physical Review Letters</i> , <b>2009</b> , 102, 096401	7.4	23
93	Conduction at domain walls in oxide multiferroics. <i>Nature Materials</i> , <b>2009</b> , 8, 229-34	27	1048
92	Enhancement of ferroelectricity at metal-oxide interfaces. <i>Nature Materials</i> , <b>2009</b> , 8, 392-7	27	354
91	Electric displacement as the fundamental variable in electronic-structure calculations. <i>Nature Physics</i> , <b>2009</b> , 5, 304-308	16.2	118
90	Current trends of the magnetoelectric effect. <i>European Physical Journal B</i> , <b>2009</b> , 71, 293-297	1.2	55
89	Strain effects on the electric polarization of BiMnO <sub>3</sub> . <i>European Physical Journal B</i> , <b>2009</b> , 71, 435-437	1.2	18
88	Superexchange-driven magnetoelectricity in magnetic vortices. <i>Physical Review Letters</i> , <b>2009</b> , 102, 157203	3.4	46
87	Mn <sup>3+</sup> in trigonal bipyramidal coordination: a new blue chromophore. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17084-6	16.4	117
86	A strain-driven morphotropic phase boundary in BiFeO <sub>3</sub> . <i>Science</i> , <b>2009</b> , 326, 977-80	33.3	956

85	First-principles study of ferroelectric domain walls in multiferroic bismuth ferrite. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	212
84	Carrier-mediated magnetoelectricity in complex oxide heterostructures. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 46-50	28.7	284
83	The toroidal moment in condensed-matter physics and its relation to the magnetoelectric effect. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 434203	1.8	265
82	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. <i>Progress in Solid State Chemistry</i> , <b>2008</b> , 36, 1-133	8	51
81	Electronic properties of bulk and thin film SrRuO <sub>3</sub> : Search for the metal-insulator transition. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	124
80	Electric-Field Control of Magnetism in Complex Oxide Thin Films. <i>MRS Bulletin</i> , <b>2008</b> , 33, 1047-1050	3.2	39
79	Theoretical study of the structural and electronic properties of strained ErAs. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	11
78	Self-interaction correction with Wannier functions. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	27
77	Towards a microscopic theory of toroidal moments in bulk periodic crystals. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	131
76	Anti-polarity in ideal BiMnO <sub>3</sub> . <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9854-5	16.4	107
75	Multiferroics: progress and prospects in thin films. <i>Nature Materials</i> , <b>2007</b> , 6, 21-9	27	3183
74	Ab initio theory of metal-insulator interfaces in a finite electric field. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	46
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