

Manuel Bibes

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.

225
papers

19,795
citations

66
h-index

138
g-index

241
ext. papers

21,975
ext. citations

9.1
avg, IF

6.71
L-index

#	Paper	IF	Citations
225	Non-collinear and asymmetric polar moments at back-gated SrTiO ₃ interfaces. <i>Communications Physics</i> , 2022 , 5,	5.4	1
224	Room-temperature ferroelectric switching of spin-to-charge conversion in germanium telluride. <i>Nature Electronics</i> , 2021 , 4, 740-747	28.4	11
223	Nonreciprocal Transport in a Rashba Ferromagnet, Delafossite PdCoO. <i>Nano Letters</i> , 2021 , 21, 8687-8692	11.5	2
222	Epitaxial ferroelectric interfacial devices. <i>Applied Physics Reviews</i> , 2021 , 8, 041308	17.3	3
221	Spin and orbital Edelstein effects in a two-dimensional electron gas: Theory and application to SrTiO ₃ interfaces. <i>Physical Review Research</i> , 2021 , 3,	3.9	7
220	Voltage-Controlled Reconfigurable Magnonic Crystal at the Sub-micrometer Scale. <i>ACS Nano</i> , 2021 , 15, 9775-9781	16.7	6
219	Large intrinsic anomalous Hall effect in SrIrO induced by magnetic proximity effect. <i>Nature Communications</i> , 2021 , 12, 3283	17.4	6
218	Metal/SrTiO ₃ two-dimensional electron gases for spin-to-charge conversion. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
217	X-ray absorption and x-ray magnetic circular dichroism in bulk and thin films of ferrimagnetic GdTlO ₃ . <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
216	Quasi-two-dimensional electron gas at the oxide interfaces for topological quantum physics. <i>Europhysics Letters</i> , 2021 , 133, 17001	1.6	5
215	Spatially Controlled Octahedral Rotations and Metal-Insulator Transitions in Nickelate Superlattices. <i>Nano Letters</i> , 2021 , 21, 1295-1302	11.5	7
214	Surface and bulk ferroelectric phase transition in super-tetragonal BiFeO ₃ thin films. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
213	First-principles study of electron and hole doping effects in perovskite nickelates. <i>Physical Review B</i> , 2021 , 104,	3.3	2
212	Depth profile reconstruction of YCrO ₃ /CaMnO ₃ superlattices by near total reflection hard x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 053204	2.9	
211	Spin-Charge Interconversion in KTaO ₂ 2D Electron Gases. <i>Advanced Materials</i> , 2021 , 33, e2102102	24	5
210	Negligible thermal contributions to the spin pumping signal in ferromagnetic metal/platinum bilayers. <i>Journal of Applied Physics</i> , 2020 , 127, 163907	2.5	4
209	In-Depth Atomic Mapping of Polarization Switching in a Ferroelectric Field-Effect Transistor. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000601	4.6	4

208	Quantized conductance in a one-dimensional ballistic oxide nanodevice. <i>Nature Electronics</i> , 2020 , 3, 201-206	28.6	6
207	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO ₃ Multiferroic Films. <i>Advanced Functional Materials</i> , 2020 , 30, 2000343	15.6	11
206	Antiferromagnetic textures in BiFeO controlled by strain and electric field. <i>Nature Communications</i> , 2020 , 11, 1704	17.4	20
205	Electron-polaron dichotomy of charge carriers in perovskite oxides. <i>Communications Physics</i> , 2020 , 3,	5.4	7
204	Switchable two-dimensional electron gas based on ferroelectric Ca:SrTiO ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
203	Determining the Rashba parameter from the bilinear magnetoresistance response in a two-dimensional electron gas. <i>Physical Review Materials</i> , 2020 , 4,	3.2	12
202	Domains and domain walls in multiferroics. <i>ChemistrySelect</i> , 2020 , 5,	1.8	15
201	Electric and antiferromagnetic chiral textures at multiferroic domain walls. <i>Nature Materials</i> , 2020 , 19, 386-390	27	36
200	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. <i>Nature</i> , 2020 , 577, 47-51	50.4	29
199	Electric-Field Control of Spin Current Generation and Detection in Ferromagnet-Free SrTiO-Based Nanodevices. <i>Nano Letters</i> , 2020 , 20, 395-401	11.5	17
198	Ultrafast spin-currents and charge conversion at 3d-5d interfaces probed by time-domain terahertz spectroscopy. <i>Applied Physics Reviews</i> , 2020 , 7, 041409	17.3	19
197	Strain-Engineered Metal-to-Insulator Transition and Orbital Polarization in Nickelate Superlattices Integrated on Silicon. <i>Advanced Materials</i> , 2020 , 32, e2004995	24	6
196	Non-volatile electric control of spin-charge conversion in a SrTiO Rashba system. <i>Nature</i> , 2020 , 580, 483-486	58.6	65
195	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , 2020 , 3, 042006	4.2	48
194	Mapping spin-charge conversion to the band structure in a topological oxide two-dimensional electron gas. <i>Nature Materials</i> , 2019 , 18, 1187-1193	27	52
193	Imaging and Harnessing Percolation at the Metal-Insulator Transition of NdNiO Nanogaps. <i>Nano Letters</i> , 2019 , 19, 7801-7805	11.5	8
192	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019 , 482, 1-93	6.7	160
191	Electrically Switchable and Tunable Rashba-Type Spin Splitting in Covalent Perovskite Oxides. <i>Physical Review Letters</i> , 2019 , 122, 116401	7.4	24

190	Josephson-like dynamics of the superconducting LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2019 , 99,	3.3	4
189	Origin of band gaps in 3d perovskite oxides. <i>Nature Communications</i> , 2019 , 10, 1658	17.4	76
188	Mott gapping in 3dABO ₃ perovskites without Mott-Hubbard interelectronic repulsion energy U. <i>Physical Review B</i> , 2019 , 100,	3.3	34
187	A magnetic phase diagram for nanoscale epitaxial BiFeO ₃ films. <i>Applied Physics Reviews</i> , 2019 , 6, 041404	17.3	10
186	Switching on superferromagnetism. <i>Physical Review Materials</i> , 2019 , 3,	3.2	2
185	Influence of flexoelectricity on the spin cycloid in (110)-oriented BiFeO ₃ films. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
184	Origins versus fingerprints of the Jahn-Teller effect in d-electron ABX ₃ perovskites. <i>Physical Review Research</i> , 2019 , 1,	3.9	13
183	Giant topological Hall effect in correlated oxide thin films. <i>Nature Physics</i> , 2019 , 15, 67-72	16.2	71
182	Topological Hall Effect from Strong to Weak Coupling. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 033705	1.5	30
181	Energetics of oxygen-octahedra rotations in perovskite oxides from first principles. <i>Physical Review B</i> , 2018 , 97,	3.3	19
180	Competition between electron pairing and phase coherence in superconducting interfaces. <i>Nature Communications</i> , 2018 , 9, 407	17.4	24
179	Revisiting the Optical Band Gap in Epitaxial BiFeO ₃ Thin Films. <i>Advanced Optical Materials</i> , 2018 , 6, 1700836	3.1	31
178	Direct Mapping of Phase Separation across the Metal-Insulator Transition of NdNiO. <i>Nano Letters</i> , 2018 , 18, 2226-2232	11.5	29
177	Bond disproportionation, charge self-regulation, and ligand holes in s \bar{p} and in d-electron ABX ₃ perovskites by density functional theory. <i>Physical Review B</i> , 2018 , 98,	3.3	28
176	Factors limiting ferroelectric field-effect doping in complex oxide heterostructures. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
175	Real-time switching dynamics of ferroelectric tunnel junctions under single-shot voltage pulses. <i>Applied Physics Letters</i> , 2018 , 113, 232902	3.4	6
174	Metal-insulator-transition engineering by modulation tilt-control in perovskite nickelates for room temperature optical switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9515-9520	11.5	33
173	A Living-Dead Magnetic Layer at the Surface of Ferrimagnetic DyTiO Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1707489	24	13

172	Oxide spin-orbitronics: New routes towards low-power electrical control of magnetization in oxide heterostructures. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 0902A4	1.4	17
171	Reproducibility and off-stoichiometry issues in nickelate thin films grown by pulsed laser deposition. <i>AIP Advances</i> , 2017 , 7, 015210	1.5	21
170	Tuning Up or Down the Critical Thickness in LaAlO ₃ /SrTiO ₃ through In Situ Deposition of Metal Overlayers. <i>Advanced Materials</i> , 2017 , 29, 1700486	24	20
169	Complete phase diagram of rare-earth nickelates from first-principles. <i>Npj Quantum Materials</i> , 2017 , 2,	5	77
168	Learning through ferroelectric domain dynamics in solid-state synapses. <i>Nature Communications</i> , 2017 , 8, 14736	17.4	300
167	Intrinsic polarization switching mechanisms in BiFeO ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	16
166	Strain and Magnetic Field Induced Spin-Structure Transitions in Multiferroic BiFeO ₃ . <i>Advanced Materials</i> , 2017 , 29, 1602327	24	58
165	Real-space imaging of non-collinear antiferromagnetic order with a single-spin magnetometer. <i>Nature</i> , 2017 , 549, 252-256	50.4	140
164	STEM-EELS Investigation of Charge and Strain Distributions in Perovskite Oxide Thin Films. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1610-1611	0.5	2
163	High-Temperature-Superconducting Weak Link Defined by the Ferroelectric Field Effect. <i>Physical Review Applied</i> , 2017 , 7,	4.3	3
162	Origin of the orbital and spin ordering in rare-earth titanates. <i>Physical Review B</i> , 2017 , 96,	3.3	21
161	Highly efficient and tunable spin-to-charge conversion through Rashba coupling at oxide interfaces. <i>Nature Materials</i> , 2016 , 15, 1261-1266	27	288
160	Large reversible caloric effect in FeRh thin films via a dual-stimulus multicaloric cycle. <i>Nature Communications</i> , 2016 , 7, 11614	17.4	89
159	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO ₃ . <i>Nature Communications</i> , 2016 , 7, 10718	17.4	72
158	Tunnel electroresistance through organic ferroelectrics. <i>Nature Communications</i> , 2016 , 7, 11502	17.4	80
157	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. <i>Nature Physics</i> , 2016 , 12, 484-492	16.2	97
156	Strain-structure-property relation in Co-super tetragonal BiFeO ₃ heterojunctions 2016 , 1042-1043		
155	Millionfold Resistance Change in Ferroelectric Tunnel Junctions Based on Nickelate Electrodes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500245	6.4	31

154	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO ₃ thin films through Mössbauer spectroscopy. <i>Applied Physics Letters</i> , 2016 , 109, 042902	3.4	10
153	Tunnel electroresistance in BiFeO ₃ junctions: size does matter. <i>Applied Physics Letters</i> , 2016 , 109, 232902	3.4	18
152	Top-gated field-effect LaAlO ₃ /SrTiO ₃ devices made by ion-irradiation. <i>Applied Physics Letters</i> , 2016 , 108, 052602	3.4	11
151	Artificial multiferroic heterostructures for an electric control of magnetic properties. <i>Comptes Rendus Physique</i> , 2015 , 16, 168-181	1.4	36
150	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. <i>Scientific Reports</i> , 2015 , 5, 10026	4.9	36
149	Depth profiling charge accumulation from a ferroelectric into a doped Mott insulator. <i>Nano Letters</i> , 2015 , 15, 2533-41	11.5	34
148	Driving Spin Excitations by Hydrostatic Pressure in BiFeO ₃ . <i>Physical Review Letters</i> , 2015 , 115, 267204	7.4	34
147	Large Elasto-Optic Effect in Epitaxial PbTiO ₃ Films. <i>Physical Review Letters</i> , 2015 , 115, 267602	7.4	26
146	Magnetoelectric effects via pentalinear interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	5
145	Field-effect control of superconductivity and Rashba spin-orbit coupling in top-gated LaAlO ₃ /SrTiO ₃ devices. <i>Scientific Reports</i> , 2015 , 5, 12751	4.9	63
144	Engineering ferroelectric tunnel junctions through potential profile shaping. <i>APL Materials</i> , 2015 , 3, 061101	10.1	25
143	Insight into spin transport in oxide heterostructures from interface-resolved magnetic mapping. <i>Nature Communications</i> , 2015 , 6, 6306	17.4	30
142	Two-dimensional electron gas with six-fold symmetry at the (111) surface of KTaO ₃ . <i>Scientific Reports</i> , 2014 , 4, 3586	4.9	37
141	Atomic structure and microstructures of supertetragonal multiferroic BiFeO ₃ thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	25
140	Linear electro-optic effect in multiferroic BiFeO ₃ thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	30
139	Electric-field control of magnetic order above room temperature. <i>Nature Materials</i> , 2014 , 13, 345-51	27	386
138	BiFeO ₃ epitaxial thin films and devices: past, present and future. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 473201	1.8	173
137	Ferroelectric tunnel junctions for information storage and processing. <i>Nature Communications</i> , 2014 , 5, 4289	17.4	464

136	Probing the metal-insulator transition in nickelates using soft x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2014 , 104, 021920	3.4	4
135	Suppression of the critical thickness threshold for conductivity at the LaAlO ₃ /SrTiO ₃ interface. <i>Nature Communications</i> , 2014 , 5, 4291	17.4	49
134	Reversible electric-field control of magnetization at oxide interfaces. <i>Nature Communications</i> , 2014 , 5, 4215	17.4	54
133	Magnetoelectric Devices for Spintronics. <i>Annual Review of Materials Research</i> , 2014 , 44, 91-116	12.8	261
132	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	3	28
131	High-performance ferroelectric memory based on fully patterned tunnel junctions. <i>Applied Physics Letters</i> , 2014 , 104, 052909	3.4	80
130	Structural, magnetic, and electronic properties of GdTO ₃ Mott insulator thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2014 , 105, 172402	3.4	12
129	Full field electron spectromicroscopy applied to ferroelectric materials. <i>Journal of Applied Physics</i> , 2013 , 113, 187217	2.5	37
128	BiFeO ₃ /YBa ₂ Cu ₃ O ₇ heterostructures for strong ferroelectric modulation of superconductivity. <i>Journal of Applied Physics</i> , 2013 , 113, 024910	2.5	16
127	Crafting the magnonic and spintronic response of BiFeO ₃ films by epitaxial strain. <i>Nature Materials</i> , 2013 , 12, 641-6	27	256
126	Giant electroresistance of super-tetragonal BiFeO ₃ -based ferroelectric tunnel junctions. <i>ACS Nano</i> , 2013 , 7, 5385-90	16.7	191
125	Ferroelectric control of a Mott insulator. <i>Scientific Reports</i> , 2013 , 3, 2834	4.9	45
124	Rationalizing strain engineering effects in rare-earth nickelates. <i>Physical Review B</i> , 2013 , 88,	3.3	48
123	Effect of a built-in electric field in asymmetric ferroelectric tunnel junctions. <i>Physical Review B</i> , 2013 , 88,	3.3	38
122	Poster: Spin-Related Phenomena 2013 , 589-632		
121	Electronic subband reconfiguration in a d ₀ -perovskite induced by strain-driven structural transformations. <i>Physical Review Letters</i> , 2012 , 109, 226601	7.4	9
120	Electronics: inside story of ferroelectric memories. <i>Nature</i> , 2012 , 483, 279-81	50.4	54
119	Thickness-dependent polarization of strained BiFeO ₃ films with constant tetragonality. <i>Physical Review Letters</i> , 2012 , 109, 267601	7.4	49

118	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO ₃ thin films. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 162202	1.8	53
117	Atomic and electronic structure of the BaTiO ₃ /Fe interface in multiferroic tunnel junctions. <i>Nano Letters</i> , 2012 , 12, 376-82	11.5	87
116	A ferroelectric memristor. <i>Nature Materials</i> , 2012 , 11, 860-4	27	745
115	Towards electrical spin injection into LaAlO ₃ -SrTiO ₃ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 4958-71	3	9
114	Orbital symmetry reconstruction and strong mass renormalization in the two-dimensional electron gas at the surface of KTaO ₃ . <i>Physical Review B</i> , 2012 , 86,	3.3	62
113	Anisotropic bimodal distribution of blocking temperature with multiferroic BiFeO ₃ epitaxial thin films. <i>Applied Physics Letters</i> , 2012 , 100, 072402	3.4	19
112	Nanoferronics is a winning combination. <i>Nature Materials</i> , 2012 , 11, 354-7	27	106
111	Room temperature electrical manipulation of giant magnetoresistance in spin valves exchange-biased with BiFeO ₃ . <i>Nano Letters</i> , 2012 , 12, 1141-5	11.5	130
110	Switching magnetization by 180° with an electric field. <i>Physical Review Letters</i> , 2012 , 108, 197206	7.4	72
109	Ferroelectric and multiferroic tunnel junctions. <i>MRS Bulletin</i> , 2012 , 37, 138-143	3.2	154
108	Equal-spin Andreev reflection and long-range coherent transport in high-temperature superconductor/half-metallic ferromagnet junctions. <i>Nature Physics</i> , 2012 , 8, 539-543	16.2	110
107	Gate-controlled spin injection at LaAlO ₃ /SrTiO ₃ interfaces. <i>Physical Review Letters</i> , 2012 , 108, 186802	7.4	71
106	Solid-state memories based on ferroelectric tunnel junctions. <i>Nature Nanotechnology</i> , 2011 , 7, 101-4	28.7	434
105	Ultrathin oxide films and interfaces for electronics and spintronics. <i>Advances in Physics</i> , 2011 , 60, 5-84	18.4	384
104	Multiferroic phase transition near room temperature in BiFeO ₃ films. <i>Physical Review Letters</i> , 2011 , 107, 237601	7.4	80
103	Two-dimensional electron gas with universal subbands at the surface of SrTiO ₃ . <i>Nature</i> , 2011 , 469, 189-93	50.4	551
102	Interface-induced room-temperature multiferroicity in BaTiO ₃ . <i>Nature Materials</i> , 2011 , 10, 753-8	27	310
101	Nanoscale electrostatic manipulation of magnetic flux quanta in ferroelectric/superconductor BiFeO ₃ /YBa ₂ Cu ₃ O _{7-δ} heterostructures. <i>Physical Review Letters</i> , 2011 , 107, 247002	7.4	75

100	Nanoscale polarization switching mechanisms in multiferroic BiFeO ₃ thin films. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 142201	1.8	21
99	Electric-field control of spin waves at room temperature in multiferroic BiFeO ₃ . <i>Nature Materials</i> , 2010 , 9, 975-9	27	205
98	Exchange coupling with the multiferroic compound BiFeO ₃ in antiferromagnetic multidomain films and single-domain crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	45
97	Point defect distribution in high-mobility conductive SrTiO ₃ crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	20
96	Bridging multiferroic phase transitions by epitaxial strain in BiFeO ₃ . <i>Physical Review Letters</i> , 2010 , 105, 057601	7.4	136
95	Giant tunnel electroresistance with PbTiO ₃ ferroelectric tunnel barriers. <i>Applied Physics Letters</i> , 2010 , 96, 042901	3.4	62
94	Ferroelectric control of spin polarization. <i>Science</i> , 2010 , 327, 1106-10	33.3	569
93	Dynamical response and confinement of the electrons at the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review Letters</i> , 2010 , 104, 156807	7.4	82
92	Competing phases in BiFeO ₃ thin films under compressive epitaxial strain. <i>Physical Review B</i> , 2010 , 81,	3.3	90
91	Vacancy defect and carrier distributions in the high mobility electron gas formed at ion-irradiated SrTiO ₃ surfaces. <i>Journal of Applied Physics</i> , 2010 , 107, 103704	2.5	23
90	Imaging ferroelectric domains in multiferroics using a low-energy electron microscope in the mirror operation mode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 22-24	2.5	29
89	Optical properties of integrated multiferroic BiFeO ₃ thin films for microwave applications. <i>Applied Physics Letters</i> , 2010 , 96, 182902	3.4	49
88	All-manganite tunnel junctions with interface-induced barrier magnetism. <i>Advanced Materials</i> , 2010 , 22, 5029-34	24	32
87	Coengineering of ferroelectric and exchange bias properties in BiFeO ₃ based heterostructures. <i>Applied Physics Letters</i> , 2009 , 95, 182503	3.4	55
86	Towards two-dimensional metallic behavior at LaAlO ₃ /SrTiO ₃ interfaces. <i>Physical Review Letters</i> , 2009 , 102, 216804	7.4	129
85	Structural and magnetic properties of Co-doped (La,Sr)TiO ₃ epitaxial thin films probed using x-ray magnetic circular dichroism. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 406001	1.8	3
84	Giant tunnel electroresistance for non-destructive readout of ferroelectric states. <i>Nature</i> , 2009 , 460, 81-4	50.4	714
83	Controlling high-mobility conduction in SrTiO ₃ by oxide thin film deposition. <i>Applied Physics Letters</i> , 2009 , 94, 012113	3.4	31

82	Evidence for room-temperature multiferroicity in a compound with a giant axial ratio. <i>Physical Review Letters</i> , 2009 , 102, 217603	7.4	306
81	Mapping the spatial distribution of charge carriers in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Nature Materials</i> , 2008 , 7, 621-5	27	366
80	Mechanisms of exchange bias with multiferroic BiFeO ₃ epitaxial thin films. <i>Physical Review Letters</i> , 2008 , 100, 017204	7.4	238
79	Spintronics with multiferroics. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 434221	1.8	262
78	Thickness-dependent structural and electrical properties of multiferroic Mn-doped BiFeO ₃ thin films grown epitaxially by pulsed laser deposition. <i>Applied Physics Letters</i> , 2008 , 93, 082902	3.4	58
77	Integration of Multiferroic BiFeO ₃ Thin Films into Heterostructures for Spintronics. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1941-1945	2	13
76	Magnetic and transport properties of the room-temperature ferrimagnetic semiconductor Fe _{1.5} Ti _{0.5} O ₃ —Influence of oxygen stoichiometry. <i>Journal of Applied Physics</i> , 2008 , 103, 07D137	2.5	13
75	Systematic investigation of the growth and structural properties of FeTiO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 093909	2.5	21
74	Crystallographic, magnetic, and ferroelectric structures of bulklike BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 93, 072901	3.4	49
73	Magnetic and structural properties of MnAs thin films on GaAs(111)B: Influence of the growth temperature. <i>Applied Physics Letters</i> , 2008 , 92, 011905	3.4	2
72	Fractal dimension and size scaling of domains in thin films of multiferroic BiFeO ₃ . <i>Physical Review Letters</i> , 2008 , 100, 027602	7.4	241
71	Growth of the magnetic semiconductor Fe _{2-x} Ti _x O ₃ thin films by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 669-674	2.6	10
70	Structural distortion and magnetism of BiFeO ₃ epitaxial thin films: A Raman spectroscopy and neutron diffraction study. <i>Philosophical Magazine Letters</i> , 2007 , 87, 165-174	1	188
69	Bias dependence of tunnel magnetoresistance in spin filtering tunnel junctions: Experiment and theory. <i>Physical Review B</i> , 2007 , 76,	3.3	27
68	Charge imbalance at oxide interfaces: How nature deals with it. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 144, 1-6	3.1	14
67	High-spin polarized Co-doped (La,Sr)TiO ₃ thin films on high-mobility SrTiO ₃ substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2111-2113	2.8	3
66	Tunnel junctions with multiferroic barriers. <i>Nature Materials</i> , 2007 , 6, 296-302	27	878
65	Oxide Spintronics. <i>IEEE Transactions on Electron Devices</i> , 2007 , 54, 1003-1023	2.9	305

64	Growth and magnetic properties of multiferroic $\text{La}_x\text{Bi}_{1-x}\text{MnO}_3$ thin films. <i>Physical Review B</i> , 2007 , 75,	3.3	28
63	High mobility in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures: origin, dimensionality, and perspectives. <i>Physical Review Letters</i> , 2007 , 98, 216803	7.4	518
62	Electronic properties of domain walls in $\text{La}_2\text{BSr}_1\text{BMnO}_3$: Magnetotransport measurements on a nanopatterned device. <i>Physical Review B</i> , 2007 , 75,	3.3	28
61	Using half-metallic manganite interfaces to reveal insights into spintronics. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 315208	1.8	38
60	Low-field magnetoresistance in a nanopatterned manganite track. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, e274-e276	2.8	9
59	NiFe_2O_4 : A Versatile Spinel Material Brings New Opportunities for Spintronics. <i>Advanced Materials</i> , 2006 , 18, 1733-1736	24	280
58	Ferroelectricity Down to at Least 2 nm in Multiferroic BiFeO_3 Epitaxial Thin Films. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L187-L189	1.4	48
57	Observation of Fowler-Nordheim hole tunneling across an electron tunnel junction due to total symmetry filtering. <i>Physical Review B</i> , 2006 , 73,	3.3	38
56	Hybrid perovskite-spinel magnetic tunnel junctions based on conductive ferrimagnetic NiFe_2O_4 . <i>Journal of Applied Physics</i> , 2006 , 99, 08K301	2.5	29
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