

Manuel Bibes

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225
papers

19,795
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66
h-index

138
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241
ext. papers

21,975
ext. citations

9.1
avg, IF

6.71
L-index

#	Paper	IF	Citations
225	Tunnel junctions with multiferroic barriers. <i>Nature Materials</i> , 2007 , 6, 296-302	27	878
224	A ferroelectric memristor. <i>Nature Materials</i> , 2012 , 11, 860-4	27	745
223	Giant tunnel electroresistance for non-destructive readout of ferroelectric states. <i>Nature</i> , 2009 , 460, 81-4	50.4	714
222	Nearly total spin polarization in La _{2/3} Sr _{1/3} MnO ₃ from tunneling experiments. <i>Applied Physics Letters</i> , 2003 , 82, 233-235	3.4	626
221	Ferroelectric control of spin polarization. <i>Science</i> , 2010 , 327, 1106-10	33.3	569
220	Two-dimensional electron gas with universal subbands at the surface of SrTiO ₃ . <i>Nature</i> , 2011 , 469, 189-93	50.4	551
219	High mobility in LaAlO ₃ /SrTiO ₃ heterostructures: origin, dimensionality, and perspectives. <i>Physical Review Letters</i> , 2007 , 98, 216803	7.4	518
218	Ferroelectric tunnel junctions for information storage and processing. <i>Nature Communications</i> , 2014 , 5, 4289	17.4	464
217	Solid-state memories based on ferroelectric tunnel junctions. <i>Nature Nanotechnology</i> , 2011 , 7, 101-4	28.7	434
216	Electric-field control of magnetic order above room temperature. <i>Nature Materials</i> , 2014 , 13, 345-51	27	386
215	Ultrathin oxide films and interfaces for electronics and spintronics. <i>Advances in Physics</i> , 2011 , 60, 5-84	18.4	384
214	Mapping the spatial distribution of charge carriers in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Nature Materials</i> , 2008 , 7, 621-5	27	366
213	Influence of parasitic phases on the properties of BiFeO ₃ epitaxial thin films. <i>Applied Physics Letters</i> , 2005 , 87, 072508	3.4	352
212	Cationic ordering control of magnetization in Sr ₂ FeMoO ₆ double perovskite. <i>Applied Physics Letters</i> , 2001 , 78, 781-783	3.4	351
211	Interface-induced room-temperature multiferroicity in BaTiO ₃ . <i>Nature Materials</i> , 2011 , 10, 753-8	27	310
210	Evidence for room-temperature multiferroicity in a compound with a giant axial ratio. <i>Physical Review Letters</i> , 2009 , 102, 217603	7.4	306
209	Oxide Spintronics. <i>IEEE Transactions on Electron Devices</i> , 2007 , 54, 1003-1023	2.9	305

208	Learning through ferroelectric domain dynamics in solid-state synapses. <i>Nature Communications</i> , 2017 , 8, 14736	17.4	300
207	Highly efficient and tunable spin-to-charge conversion through Rashba coupling at oxide interfaces. <i>Nature Materials</i> , 2016 , 15, 1261-1266	27	288
206	NiFe ₂ O ₄ : A Versatile Spinel Material Brings New Opportunities for Spintronics. <i>Advanced Materials</i> , 2006 , 18, 1733-1736	24	280
205	Spintronics with multiferroics. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 434221	1.8	262
204	Magnetoelectric Devices for Spintronics. <i>Annual Review of Materials Research</i> , 2014 , 44, 91-116	12.8	261
203	Crafting the magnonic and spintronic response of BiFeO ₃ films by epitaxial strain. <i>Nature Materials</i> , 2013 , 12, 641-6	27	256
202	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
201	Mechanisms of exchange bias with multiferroic BiFeO ₃ epitaxial thin films. <i>Physical Review Letters</i> , 2008 , 100, 017204	7.4	238
200	Nanoscale multiphase separation at La _{2/3} Ca _{1/3} MnO ₃ /SrTiO ₃ interfaces. <i>Physical Review Letters</i> , 2001 , 87, 067210	7.4	225
199	Electric-field control of spin waves at room temperature in multiferroic BiFeO ₃ . <i>Nature Materials</i> , 2010 , 9, 975-9	27	205
198	Giant electroresistance of super-tetragonal BiFeO ₃ -based ferroelectric tunnel junctions. <i>ACS Nano</i> , 2013 , 7, 5385-90	16.7	191
197	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
196	Investigation on the origin of the magnetic moment of BiFeO ₃ thin films by advanced x-ray characterizations. <i>Physical Review B</i> , 2006 , 74,	3.3	184
195	Spin filtering through ferromagnetic BiMnO ₃ tunnel barriers. <i>Physical Review B</i> , 2005 , 72,	3.3	178
194	BiFeO ₃ epitaxial thin films and devices: past, present and future. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 473201	1.8	173
193	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019 , 482, 1-93	6.7	160
192	Spin filtering through ferrimagnetic NiFe ₂ O ₄ tunnel barriers. <i>Applied Physics Letters</i> , 2006 , 88, 082505	3.4	157
191	Ferroelectric and multiferroic tunnel junctions. <i>MRS Bulletin</i> , 2012 , 37, 138-143	3.2	154

190	Charge trapping in optimally doped epitaxial manganite thin films. <i>Physical Review B</i> , 2002 , 66,	3.3	145
189	Real-space imaging of non-collinear antiferromagnetic order with a single-spin magnetometer. <i>Nature</i> , 2017 , 549, 252-256	50.4	140
188	Bridging multiferroic phase transitions by epitaxial strain in BiFeO ₃ . <i>Physical Review Letters</i> , 2010 , 105, 057601	7.4	136
187	Tunnel magnetoresistance and robust room temperature exchange bias with multiferroic BiFeO ₃ epitaxial thin films. <i>Applied Physics Letters</i> , 2006 , 89, 242114	3.4	136
186	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
185	Towards two-dimensional metallic behavior at LaAlO ₃ /SrTiO ₃ interfaces. <i>Physical Review Letters</i> , 2009 , 102, 216804	7.4	129
184	Temperature dependence of the interfacial spin polarization of La _{2/3} Sr _{1/3} MnO ₃ . <i>Physical Review B</i> , 2004 , 69,	3.3	127
183	Enhanced magnetic moment and conductive behavior in NiFe ₂ O ₄ spinel ultrathin films. <i>Physical Review B</i> , 2005 , 71,	3.3	126
182	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
181	Nanoferronics is a winning combination. <i>Nature Materials</i> , 2012 , 11, 354-7	27	106
180	Combining half-metals and multiferroics into epitaxial heterostructures for spintronics. <i>Applied Physics Letters</i> , 2006 , 88, 062502	3.4	98
179	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. <i>Nature Physics</i> , 2016 , 12, 484-492	16.2	97
178	Antisite defects and magnetoresistance in Sr ₂ FeMoO ₆ double perovskite. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 8481-8488	1.8	94
177	Tunnel magnetoresistance in nanojunctions based on Sr ₂ FeMoO ₆ . <i>Applied Physics Letters</i> , 2003 , 83, 2629-2631	3.4	93
176	Competing phases in BiFeO ₃ thin films under compressive epitaxial strain. <i>Physical Review B</i> , 2010 , 81,	3.3	90
175	Large reversible caloric effect in FeRh thin films via a dual-stimulus multicaloric cycle. <i>Nature Communications</i> , 2016 , 7, 11614	17.4	89
174	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
173	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

172	Tunnel electroresistance through organic ferroelectrics. <i>Nature Communications</i> , 2016 , 7, 11502	17.4	80
171	High-performance ferroelectric memory based on fully patterned tunnel junctions. <i>Applied Physics Letters</i> , 2014 , 104, 052909	3.4	80
170	Multiferroic phase transition near room temperature in BiFeO ₃ films. <i>Physical Review Letters</i> , 2011 , 107, 237601	7.4	80
169	Complete phase diagram of rare-earth nickelates from first-principles. <i>Npj Quantum Materials</i> , 2017 , 2,	5	77
168	Origin of band gaps in 3d perovskite oxides. <i>Nature Communications</i> , 2019 , 10, 1658	17.4	76
167	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
166	Spin-polarized tunneling spectroscopy in tunnel junctions with half-metallic electrodes. <i>Physical Review Letters</i> , 2005 , 95, 137203	7.4	74
165	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO ₃ . <i>Nature Communications</i> , 2016 , 7, 10718	17.4	72
164	Switching magnetization by 180° with an electric field. <i>Physical Review Letters</i> , 2012 , 108, 197206	7.4	72
163	Gate-controlled spin injection at LaAlO ₃ /SrTiO ₃ interfaces. <i>Physical Review Letters</i> , 2012 , 108, 186802	7.4	71
162	Giant topological Hall effect in correlated oxide thin films. <i>Nature Physics</i> , 2019 , 15, 67-72	16.2	71
161	Recent advances in nanomagnetism and spin electronics. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S471-S496	1.8	67
160	Non-volatile electric control of spin-charge conversion in a SrTiO Rashba system. <i>Nature</i> , 2020 , 580, 483-486	38.6	65
159	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
158	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
157	Giant tunnel electroresistance with PbTiO ₃ ferroelectric tunnel barriers. <i>Applied Physics Letters</i> , 2010 , 96, 042901	3.4	62
156	Strain and Magnetic Field Induced Spin-Structure Transitions in Multiferroic BiFeO. <i>Advanced Materials</i> , 2017 , 29, 1602327	24	58
155	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

154	Inhomogeneous transport in heteroepitaxial La _{0.7} Ca _{0.3} MnO ₃ /SrTiO ₃ multilayers. <i>Applied Physics Letters</i> , 1999 , 75, 3689-3691	3-4	56
153	Coengineering of ferroelectric and exchange bias properties in BiFeO ₃ based heterostructures. <i>Applied Physics Letters</i> , 2009 , 95, 182503	3-4	55
152	Reversible electric-field control of magnetization at oxide interfaces. <i>Nature Communications</i> , 2014 , 5, 4215	17-4	54
151	Electronics: inside story of ferroelectric memories. <i>Nature</i> , 2012 , 483, 279-81	50-4	54
150	Surface-induced phase separation in manganites: A microscopic origin for powder magnetoresistance. <i>Applied Physics Letters</i> , 2003 , 82, 928-930	3-4	54
149	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
148	Co-doped (La, Sr)TiO(3-delta) : a high Curie temperature diluted magnetic system with large spin polarization. <i>Physical Review Letters</i> , 2006 , 96, 027207	7-4	53
147	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
146	Nanolithography Based on Real-Time Electrically Controlled Indentation with an Atomic Force Microscope for Nanocontact Elaboration. <i>Nano Letters</i> , 2003 , 3, 1599-1602	11-5	52
145	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
144	Thickness-dependent polarization of strained BiFeO ₃ films with constant tetragonality. <i>Physical Review Letters</i> , 2012 , 109, 267601	7-4	49
143	Optical properties of integrated multiferroic BiFeO ₃ thin films for microwave applications. <i>Applied Physics Letters</i> , 2010 , 96, 182902	3-4	49
142	Crystallographic, magnetic, and ferroelectric structures of bulklike BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 93, 072901	3-4	49
141	Rationalizing strain engineering effects in rare-earth nickelates. <i>Physical Review B</i> , 2013 , 88,	3-3	48
140	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
139	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , 2020 , 3, 042006	4-2	48
138	Ferroelectric control of a Mott insulator. <i>Scientific Reports</i> , 2013 , 3, 2834	4-9	45
137	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

136	Full oxide heterostructure combining a high-TC diluted ferromagnet with a high-mobility conductor. <i>Physical Review B</i> , 2006 , 73,	3.3	39
135	Anisotropic magnetoresistance and anomalous Hall effect in manganite thin films. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 2733-2740	1.8	39
134	Effect of a built-in electric field in asymmetric ferroelectric tunnel junctions. <i>Physical Review B</i> , 2013 , 88,	3.3	38
133	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
132	Using half-metallic manganite interfaces to reveal insights into spintronics. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 315208	1.8	38
131	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
130	Full field electron spectromicroscopy applied to ferroelectric materials. <i>Journal of Applied Physics</i> , 2013 , 113, 187217	2.5	37
129	Artificial multiferroic heterostructures for an electric control of magnetic properties. <i>Comptes Rendus Physique</i> , 2015 , 16, 168-181	1.4	36
128	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
127	Electric and antiferromagnetic chiral textures at multiferroic domain walls. <i>Nature Materials</i> , 2020 , 19, 386-390	27	36
126	Depth profiling charge accumulation from a ferroelectric into a doped Mott insulator. <i>Nano Letters</i> , 2015 , 15, 2533-41	11.5	34
125	Mott gapping in 3dABO ₃ perovskites without Mott-Hubbard interelectronic repulsion energy U. <i>Physical Review B</i> , 2019 , 100,	3.3	34
124	Driving Spin Excitations by Hydrostatic Pressure in BiFeO ₃ . <i>Physical Review Letters</i> , 2015 , 115, 267204	7.4	34
123	La ₂ Sr ₁ MnO ₃ /a _{0.1} Bi _{0.9} MnO ₃ heterostructures for spin filtering. <i>Journal of Applied Physics</i> , 2006 , 99, 08E504	2.5	34
122	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
121	All-manganite tunnel junctions with interface-induced barrier magnetism. <i>Advanced Materials</i> , 2010 , 22, 5029-34	24	32
120	Revisiting the Optical Band Gap in Epitaxial BiFeO ₃ Thin Films. <i>Advanced Optical Materials</i> , 2018 , 6, 1700836		31
119	Controlling high-mobility conduction in SrTiO ₃ by oxide thin film deposition. <i>Applied Physics Letters</i> , 2009 , 94, 012113	3.4	31

118	Growth and characterization of TiO ₂ as a barrier for spin-polarized tunneling. <i>Applied Physics Letters</i> , 2003 , 82, 3269-3271	3.4	31
117	Millionfold Resistance Change in Ferroelectric Tunnel Junctions Based on Nickelate Electrodes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500245	6.4	31
116	Topological Hall Effect from Strong to Weak Coupling. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 033705	1.5	30
115	Linear electro-optic effect in multiferroic BiFeO ₃ thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	30
114	Insight into spin transport in oxide heterostructures from interface-resolved magnetic mapping. <i>Nature Communications</i> , 2015 , 6, 6306	17.4	30
113	Direct Mapping of Phase Separation across the Metal-Insulator Transition of NdNiO. <i>Nano Letters</i> , 2018 , 18, 2226-2232	11.5	29
112	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
111	Hybrid perovskite-spinel magnetic tunnel junctions based on conductive ferrimagnetic NiFe ₂ O ₄ . <i>Journal of Applied Physics</i> , 2006 , 99, 08K301	2.5	29
110	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. <i>Nature</i> , 2020 , 577, 47-51	50.4	29
109	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
108	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
107	Growth and magnetic properties of multiferroic La _x Bi _{1-x} MnO ₃ thin films. <i>Physical Review B</i> , 2007 , 75,	3.3	28
106	Electronic properties of domain walls in La _{2/3} Sr _{1/3} MnO ₃ : Magnetotransport measurements on a nanopatterned device. <i>Physical Review B</i> , 2007 , 75,	3.3	28
105	Bias dependence of tunnel magnetoresistance in spin filtering tunnel junctions: Experiment and theory. <i>Physical Review B</i> , 2007 , 76,	3.3	27
104	Large Elasto-Optic Effect in Epitaxial PbTiO ₃ Films. <i>Physical Review Letters</i> , 2015 , 115, 267602	7.4	26
103	Anisotropic magnetoresistance of (00h), (0hh) and (hhh) La _{2/3} Sr _{1/3} MnO ₃ thin films on (001) Si substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 211, 206-211	2.8	26
102	Atomic structure and microstructures of supertetragonal multiferroic BiFeO ₃ thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	25
101	Engineering ferroelectric tunnel junctions through potential profile shaping. <i>APL Materials</i> , 2015 , 3, 061101	1.01	25

100	Thickness dependence of surface roughness and transport properties of La _{2/3} Ca _{1/3} MnO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2001 , 89, 6686-6688	2.5	25
99	Electrically Switchable and Tunable Rashba-Type Spin Splitting in Covalent Perovskite Oxides. <i>Physical Review Letters</i> , 2019 , 122, 116401	7.4	24
98	Competition between electron pairing and phase coherence in superconducting interfaces. <i>Nature Communications</i> , 2018 , 9, 407	17.4	24
97	Spin-dependent tunneling through high-k LaAlO ₃ . <i>Applied Physics Letters</i> , 2005 , 87, 212501	3.4	24
96	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
95	Half-metallicity proven using fully spin-polarized tunnelling. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L407-L409	1.8	23
94	Reproducibility and off-stoichiometry issues in nickelate thin films grown by pulsed laser deposition. <i>AIP Advances</i> , 2017 , 7, 015210	1.5	21
93	Nanoscale polarization switching mechanisms in multiferroic BiFeO ₃ thin films. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 142201	1.8	21
92	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
91	Origin of the orbital and spin ordering in rare-earth titanates. <i>Physical Review B</i> , 2017 , 96,	3.3	21
90	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
89	Antiferromagnetic textures in BiFeO ₃ controlled by strain and electric field. <i>Nature Communications</i> , 2020 , 11, 1704	17.4	20
88	Point defect distribution in high-mobility conductive SrTiO ₃ crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	20
87	Tunable epitaxial growth of magnetoresistive La _{2/3} Sr _{1/3} MnO ₃ thin films. <i>Journal of Applied Physics</i> , 1999 , 85, 4800-4802	2.5	20
86	Energetics of oxygen-octahedra rotations in perovskite oxides from first principles. <i>Physical Review B</i> , 2018 , 97,	3.3	19
85	Anisotropic bimodal distribution of blocking temperature with multiferroic BiFeO ₃ epitaxial thin films. <i>Applied Physics Letters</i> , 2012 , 100, 072402	3.4	19
84	Epitaxial growth of magnetoresistive (00h), (0hh), and (hhh) La _{2/3} Sr _{1/3} MnO ₃ thin films on (001)Si substrates. <i>Applied Physics Letters</i> , 1999 , 74, 1743-1745	3.4	19
83	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

82	Alkaline-doped manganese perovskite thin films grown by MOCVD. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 211, 47-53	2.8	18
81	Tunnel electroresistance in BiFeO ₃ junctions: size does matter. <i>Applied Physics Letters</i> , 2016 , 109, 232903-4	3.4	18
80	Magnetotransport properties of fully strained epitaxial thin films of La _{2/3} Ca _{1/3} MnO ₃ grown on SrTiO ₃ . <i>Applied Surface Science</i> , 2002 , 188, 202-208	6.7	17
79	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
78	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
77	Intrinsic polarization switching mechanisms in BiFeO ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	16
76	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
75	Magnetoresistive oxides: new developments and applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 98-104	2.8	15
74	Electrical characterization of nanocontacts fabricated by nanoindentation and electrodeposition. <i>Applied Physics Letters</i> , 2002 , 81, 760-762	3.4	15
73	Magnetoresistance at artificial interfaces in epitaxial ferromagnetic thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 211, 217-225	2.8	15
72	Domains and domain walls in multiferroics. <i>ChemistrySelect</i> , 2020 , 5,	1.8	15
71	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
70	Integration of Multiferroic BiFeO ₃ Thin Films into Heterostructures for Spintronics. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1941-1945	2	13
69	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
68	Magnetic nanowires patterned in the La _{2/3} Sr _{1/3} MnO ₃ half-metal. <i>Microelectronic Engineering</i> , 2005 , 78-79, 201-205	2.5	13
67	Substrate influence on the growth of Co-doped La _{0.5} Sr _{0.5} TiO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2005 , 98, 013514	2.5	13
66	Laser patterned arrays of interfaces in magnetoresistive La _{2/3} Sr _{1/3} MnO ₃ thin films. <i>Applied Physics Letters</i> , 1999 , 75, 2120-2122	3.4	13
65	Origins versus fingerprints of the Jahn-Teller effect in d-electron ABX ₃ perovskites. <i>Physical Review Research</i> , 2019 , 1,	3.9	13

64	A Living-Dead Magnetic Layer at the Surface of Ferrimagnetic DyTiO Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1707489	24	13
63	Structural, magnetic, and electronic properties of GdTiO ₃ Mott insulator thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2014 , 105, 172402	3.4	12
62	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
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