

# R Ramesh

## List of Publications by Year in descending order

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575  
papers

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594  
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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Bifunctional copper zinc bimetallic tungstate nanoparticles decorated reduced graphene oxide (CuZnWO <sub>4</sub> /rGO) for high-performance photocatalytic and supercapacitor application. Journal of Materials Science: Materials in Electronics, 2022, 33, 8446-8459.	1.1	8
2	Design and preparation of NiCoS nanostructures on Ni foam for high-performance asymmetric supercapacitor application. Journal of Materials Science: Materials in Electronics, 2022, 33, 9256-9268.	1.1	6
3	Annealing effect on photocatalytic activity of ZnO nanostructures for organic dye degradation. Journal of Materials Science: Materials in Electronics, 2022, 33, 8868-8879.	1.1	8
4	Enhanced photocatalytic activity of ZnO hexagonal tube/r-GO composite on degradation of organic aqueous pollutant and study of charge transport properties. Chemosphere, 2022, 291, 132782.	4.2	9
5	Synthesis of r-GO-incorporated CoWO <sub>4</sub> nanostructure for high-performance supercapattery applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 9312-9323.	1.1	4
6	Materials for a Sustainable Microelectronics Future: Electric Field Control of Magnetism with Multiferroics. Journal of the Indian Institute of Science, 2022, 102, 489-511.	0.9	3
7	Photoelectrochemical properties and photocatalytic degradation of methyl orange dye by different ZnO nanostructures. Journal of Materials Science: Materials in Electronics, 2022, 33, 9732-9742.	1.1	10
8	Pseudocapacitive behavior of coin-like NiO/r-GO nanocomposites as an efficient electrode material for energy storage application. Materials Technology, 2022, 37, 2718-2726.	1.5	2
9	Key issues and challenges in device level fabrication of MEMS acoustic sensors using piezo thin films doped with strontium and lanthanum. Journal of Materials Science: Materials in Electronics, 2022, 33, 11271-11280.	1.1	2
10	Enabling ultra-low-voltage switching in BaTiO <sub>3</sub> . Nature Materials, 2022, 21, 779-785.	13.3	28
11	Local negative permittivity and topological phase transition in polar skyrmions. Nature Materials, 2021, 20, 194-201.	13.3	86
12	Engineering new limits to magnetostriction through metastability in iron-gallium alloys. Nature Communications, 2021, 12, 2757.	5.8	14
13	Facile, low cost synthesis of cauliflower-shaped ZnO with MWCNT/rGO nanocomposites and their photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2021, 32, 15763-15777.	1.1	14
14	Electric field control of magnetism: multiferroics and magnetoelectrics. Rivista Del Nuovo Cimento, 2021, 44, 251-289.	2.0	12
15	Investigation on mesoporous bimetallic tungstate nanostructure for high-performance solid-state supercapattery. Journal of Alloys and Compounds, 2021, 875, 160066.	2.8	33
16	Investigation on synergistic effect of rGO and carbon quantum dots-embedded ZnO hollow spheres for improved photocatalytic aqueous pollutant removal process. Journal of Materials Science: Materials in Electronics, 2021, 32, 28633-28647.	1.1	8
17	Simulation Studies on Packaging of Piezo MEMS Acoustic Sensor for Underwater Applications., 2021, , .		0
18	Facile construction of djembe-like ZnO and its composite with g-C <sub>3</sub> N <sub>4</sub> as a visible-light-driven heterojunction photocatalyst for the degradation of organic dyes. Materials Science in Semiconductor Processing, 2020, 106, 104754.	1.9	57

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19	Three dimensional flower-like CuO/Co <sub>3</sub> O <sub>4</sub> /r-GO heterostructure for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156439.	2.8	52
20	Optimization of piezoelectric MEMS process on Sr and La co-doped PZT thin films. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050010.	1.5	6
21	Enhanced photocatalytic activity of reduced graphene oxide/SrSnO <sub>3</sub> nanocomposite for aqueous organic pollutant degradation. <i>Optik</i> , 2020, 206, 164055.	1.4	26
22	Ultrafine MnO <sub>2</sub> /graphene based hybrid nanoframeworks as high-performance flexible electrode for energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6910-6918.	1.1	29
23	A new era in ferroelectrics. <i>APL Materials</i> , 2020, 8, .	2.2	36
24	Enhanced photocatalytic activities of ZnO dumbbell/reduced graphene oxide nanocomposites for degradation of organic pollutants via efficient charge separation pathway. <i>Applied Surface Science</i> , 2019, 487, 1279-1288.	3.1	80
25	Observation of room-temperature polar skyrmions. <i>Nature</i> , 2019, 568, 368-372.	13.7	417
26	Optical creation of a supercrystal with three-dimensional nanoscale periodicity. <i>Nature Materials</i> , 2019, 18, 377-383.	13.3	105
27	Electric-field control of magnetism. <i>MRS Bulletin</i> , 2019, 44, 288-294.	1.7	6
28	Advances in magnetoelectric multiferroics. <i>Nature Materials</i> , 2019, 18, 203-212.	13.3	1,084
29	Synthesis, structural and optical properties of ZnO spindle/reduced graphene oxide composites with enhanced photocatalytic activity under visible light irradiation. <i>Optical Materials</i> , 2018, 79, 186-195.	1.7	76
30	Electrically reversible cracks in an intermetallic film controlled by an electric field. <i>Nature Communications</i> , 2018, 9, 41.	5.8	53
31	Three-Dimensional Polarization by Means of Scanning HOLZ-CBED Technique. <i>Microscopy and Microanalysis</i> , 2018, 24, 178-179.	0.2	1
32	Perspective: Emergent topologies in oxide superlattices. <i>APL Materials</i> , 2018, 6, 100901.	2.2	28
33	Electronic excitation induced structural and optical modifications in InGaN/GaN quantum well structures grown by MOCVD. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 394, 81-88.	0.6	9
34	Epitaxial strain controlled magnetocrystalline anisotropy in ultrathin FeRh/MgO bilayers. <i>AIP Advances</i> , 2017, 7, 055914.	0.6	7
35	Functional electronic inversion layers at ferroelectric domain walls. <i>Nature Materials</i> , 2017, 16, 622-627.	13.3	127
36	Electric field control of magnetization direction across the antiferromagnetic to ferromagnetic transition. <i>Scientific Reports</i> , 2017, 7, 5366.	1.6	21

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37	Phase coexistence and electric-field control of toroidal order in oxide superlattices. Nature Materials, 2017, 16, 1003-1009.	13.3	159
38	Hidden Magnetic States Emergent Under Electric Field, In A Room Temperature Composite Magnetoelectric Multiferroic. Scientific Reports, 2017, 7, 15460.	1.6	25
39	Quantification of flexoelectricity in PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice polar vortices using machine learning and phase-field modeling. Nature Communications, 2017, 8, 1468.	5.8	93
40	Dynamic in situ observation of voltage-driven repeatable magnetization reversal at room temperature. Scientific Reports, 2016, 6, 23696.	1.6	20
41	Structural, surface potential and optical studies of AlGa <sub>N</sub> based double heterostructures irradiated by 120 Å MeV Si <sup>9+</sup> swift heavy ions. Journal of Alloys and Compounds, 2016, 679, 94-103.	2.8	3
42	The 2016 oxide electronic materials and oxide interfaces roadmap. Journal Physics D: Applied Physics, 2016, 49, 433001.	1.3	266
43	Frontiers in strain-engineered multifunctional ferroic materials. MRS Communications, 2016, 6, 151-166.	0.8	17
44	Revealing the hidden structural phases of FeRh. Physical Review B, 2016, 94, .	1.1	29
45	Full Electroresistance Modulation in a Mixed-Phase Metallic Alloy. Physical Review Letters, 2016, 116, 097203.	2.9	88
46	Ambipolar transport and magneto-resistance crossover in a Mott insulator, Sr <sub>2</sub> IrO <sub>4</sub> . Journal of Physics Condensed Matter, 2016, 28, 505304.	0.7	14
47	Observation of polar vortices in oxide superlattices. Nature, 2016, 530, 198-201.	13.7	682
48	Probing single magnon excitations in Sr <sub>2</sub> IrO <sub>4</sub> using O <i>K</i> -edge resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2015, 27, 202202.	0.7	11
49	Large resistivity modulation in mixed-phase metallic systems. Nature Communications, 2015, 6, 5959.	5.8	154
50	Probing electric field control of magnetism using ferromagnetic resonance. Nature Communications, 2015, 6, 6082.	5.8	85
51	Effect of TEA on the structural and magnetic properties of ferromagnetic ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2015, 26, 547-553.	1.1	4
52	Ferroelectric domains in the multiferroic phase of ErMnO <sub>3</sub> imaged by low-temperature photoemission electron microscopy. Journal of Physics: Conference Series, 2015, 592, 012120.	0.3	5
53	Growth of high-quality hexagonal ErMnO <sub>3</sub> single crystals by the pressurized floating-zone method. Journal of Crystal Growth, 2015, 409, 75-79.	0.7	31
54	Emerging Multiferroic Memories. , 2014, , 103-166.		10

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55	Deterministic switching of ferromagnetism at room temperature using an electric field. Nature, 2014, 516, 370-373.	13.7	570
56	Imaging and characterization of conducting ferroelectric domain walls by photoemission electron microscopy. Applied Physics Letters, 2014, 104, .	1.5	27
57	Electric field control of magnetism using BiFeO <sub>3</sub> -based heterostructures. Applied Physics Reviews, 2014, 1, 021303.	5.5	234
58	BiFeO <sub>3</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> heterostructures deposited on spark plasma sintered LaAlO <sub>3</sub> substrates. Applied Physics Letters, 2014, 104, 082914.	1.5	18
59	Simultaneous imaging of the ferromagnetic and ferroelectric structure in multiferroic heterostructures. APL Materials, 2014, 2, 076109.	2.2	19
60	Synthesis and Study of Structural, Morphological and Magnetic Properties of ZnFe <sub>2</sub> O <sub>4</sub> Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1499-1502.	0.8	51
61	Room-temperature antiferromagnetic memory resistor. Nature Materials, 2014, 13, 367-374.	13.3	546
62	Electric field control of ferromagnetism using multi-ferroics: the bismuth ferrite story. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120437.	1.6	28
63	Induced Magnetization in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . Physical Review Letters, 2014, 113, 047204.	1.9	59
64	Anisotropic magnetoresistance in an antiferromagnetic semiconductor. Nature Communications, 2014, 5, 4671.	5.8	136
65	One pot facile hydrothermal synthesis of superparamagnetic ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles and their properties. Journal of Sol-Gel Science and Technology, 2014, 71, 147-151.	1.1	13
66	Synthesis of dumbbell shaped ZnO crystals using one-pot hydrothermal method and their characterisations. Materials Letters, 2014, 122, 230-233.	1.3	10
67	X-ray diffraction studies of stripelike ferroelectric domains in thin films of $\text{BiFeO}_3$ . Physical Review B, 2014, 89, .	1.1	10
68	Functional ferroic heterostructures with tunable integral symmetry. Nature Communications, 2014, 5, 4295.	5.8	15
69	Electric Field Control of Magnetism Using Multiferroic Bismuth Ferrite. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, S19-S24.	0.1	1
70	Synthesis and characterization of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles and nanorods. Journal of Alloys and Compounds, 2013, 563, 6-11.	2.8	169
71	Synthesis of superparamagnetic ZnFe <sub>2</sub> O <sub>4</sub> nanoparticle by surfactant assisted hydrothermal method. Journal of Materials Science: Materials in Electronics, 2013, 24, 4279-4283.	1.1	25
72	Non-volatile memory based on the ferroelectric photovoltaic effect. Nature Communications, 2013, 4, 1990.	5.8	394

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73	Translation domains in multiferroics. Phase Transitions, 2013, 86, 33-52.	0.6	16
74	Full Electric Control of Exchange Bias. Physical Review Letters, 2013, 110, 067202.	2.9	252
75	Electromechanical Coupling among Edge Dislocations, Domain Walls, and Nanodomains in BiFeO <sub>3</sub> Revealed by Unit-Cell-Wise Strain and Polarization Maps. Nano Letters, 2013, 13, 1410-1415.	4.5	76
76	Tuning the Competition between Ferromagnetism and Antiferromagnetism in a Half-Doped Manganite through Magnetoelectric Coupling. Physical Review Letters, 2013, 111, 127601.	2.9	93
77	Epitaxy-distorted spin-orbit Mott insulator in Sr <sub>2</sub> IrO <sub>4</sub> thin films. Physical Review B, 2013, 87, .	1.1	70
78	Ultrathin Limit of Exchange Bias Coupling at Oxide Multiferroic/Ferromagnetic Interfaces. Advanced Materials, 2013, 25, 4739-4745.	11.1	59
79	Interface control of bulk ferroelectric polarization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9710-9715.	3.3	212
80	Mutual induction of magnetic 3d and 4f order in multiferroic hexagonal ErMnO <sub>3</sub> . Physical Review B, 2012, 86, .	1.1	37
81	Nanoscale phase boundaries: a new twist to novel functionalities. Nanoscale, 2012, 4, 6196.	2.8	63
82	Evidence of Sharp and Diffuse Domain Walls in BiFeO <sub>3</sub> by Means of Unit-Cell-Wise Strain and Polarization Maps Obtained with High Resolution Scanning Transmission Electron Microscopy. Physical Review Letters, 2012, 109, 047601.	2.9	52
83	Orthorhombic BiFeO <sub>3</sub> . Physical Review Letters, 2012, 109, 247606.	2.9	100
84	Emergent phenomena at multiferroic heterointerfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4856-4871.	1.6	43
85	Nanoscale Probing of High Photovoltages at 109° Domain Walls. Ferroelectrics, 2012, 433, 123-126.	0.3	24
86	Synthesis, studies and growth mechanism of ferromagnetic NiFe <sub>2</sub> O <sub>4</sub> nanosheet. Applied Surface Science, 2012, 258, 6648-6652.	3.1	69
87	Structural, thermal, dielectric and magnetic properties of NiFe <sub>2</sub> O <sub>4</sub> nanoleaf. Journal of Alloys and Compounds, 2012, 537, 203-207.	2.8	29
88	Prominent electrochromism through vacancy-order melting in a complex oxide. Nature Communications, 2012, 3, 799.	5.8	85
89	Nanoscale characterization of emergent phenomena in multiferroics. Current Opinion in Solid State and Materials Science, 2012, 16, 216-226.	5.6	14
90	Magnetotransport at Domain Walls in BiFeO <sub>3</sub> . Physical Review Letters, 2012, 108, 067203.	2.9	131

#	ARTICLE	IF	CITATIONS
91	<a href="#">Electric-Field Control of Nonvolatile Magnetization in <math>\text{Co}_{40}\text{Fe}_{20}\text{B}_{20}\text{Pb}</math></a>		

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109	Synthesis and characterization of NiFe <sub>2</sub> O <sub>4</sub> nanosheet via polymer assisted co-precipitation method. Materials Letters, 2011, 65, 483-485.	1.3	104
110	Preparation of sheet like polycrystalline NiFe <sub>2</sub> O <sub>4</sub> nanostructure with PVA matrices and their properties. Materials Letters, 2011, 65, 1438-1440.	1.3	74
111	Microscopic Origin of the Giant Ferroelectric Polarization in Tetragonal-like $\text{BiFeO}_3$ . Physical Review Letters, 2011, 107, 147602.	2.9	290
112	Correlation between nanoscale and nanosecond resolved ferroelectric domain dynamics and local mechanical compliance. Journal of Applied Physics, 2011, 109, 091607.	1.1	4
113	Universal Ti-rich termination of atomically flat SrTiO <sub>3</sub> (001), (110), and (111) surfaces. Applied Physics Letters, 2011, 98, .	1.5	112
114	Determination of the spin-flip time in ferromagnetic SrRuO <sub>3</sub> from time-resolved Kerr measurements. Physical Review B, 2011, 83, .	1.1	15
115	Advances in the growth and characterization of magnetic, ferroelectric, and multiferroic oxide thin films. Materials Science and Engineering Reports, 2010, 68, 89-133.	14.8	553
116	Pulsed laser deposition-induced reduction of SrTiO <sub>3</sub> crystals. Acta Materialia, 2010, 58, 457-463.	3.8	65
117	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. Nature Materials, 2010, 9, 309-314.	13.3	407
118	A new spin on spintronics. Nature Materials, 2010, 9, 380-381.	13.3	56
119	Reversible electric control of exchange bias in a multiferroic field-effect device. Nature Materials, 2010, 9, 756-761.	13.3	633
120	Above-bandgap voltages from ferroelectric photovoltaic devices. Nature Nanotechnology, 2010, 5, 143-147.	15.6	1,496
121	Domain Wall Conductivity in La-Doped $\text{BiFeO}_3$ . Physical Review Letters, 2010, 105, 197603.	2.9	357
122	Strain-driven phase transitions and associated dielectric/piezoelectric anomalies in BiFeO <sub>3</sub> thin films. Applied Physics Letters, 2010, 97, .	1.5	35
123	Hidden Magnetic Configuration in Epitaxial $\text{La}_{1-x}\text{Mn}_x\text{O}_3$ . Physical Review Letters, 2010, 105, 257204.	2.9	100
124	Tunable band gap in Bi(Fe <sub>1-x</sub> Mn <sub>x</sub> )O <sub>3</sub> films. Applied Physics Letters, 2010, 96, .	1.5	70
125	Interface properties of magnetic tunnel junction $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . Physical Review B, 2010, 82, .	1.1	71
126	Effective thermal boundary resistance from thermal decoupling of magnons and phonons in $\text{SrRuO}_3$ films. Physical Review B, 2010, 82, .	1.1	7



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127	Probing mixed tetragonal/rhombohedral-like monoclinic phases in strained bismuth ferrite films by optical second harmonic generation. Applied Physics Letters, 2010, 97, 112903.	1.5	41
128	Quantitative determination of anisotropic magnetoelectric coupling in BiFeO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> nanostructures. Applied Physics Letters, 2010, 97, .	1.5	61
129	High-temperature thermoelectric response of double-doped SrTiO <sub>3</sub> films. Physical Review B, 2010, 82, .	1.1	63
130	Probing the evolution of antiferromagnetism in multiferroics. Physical Review B, 2010, 81, .	1.1	70
131	Suppression of Octahedral Tilts and Associated Changes in Electronic Properties at Epitaxial Oxide Heterostructure Interfaces. Physical Review Letters, 2010, 105, 087204.	2.9	308
132	Interface Ferromagnetism and Orbital Reconstruction in BiFeO <sub>3</sub> /La <sub>0.7</sub> Physical Review Letters, 2010, 105, 027201.	2.9	335
133	Optical properties of quasi-tetragonal BiFeO <sub>3</sub> thin films. Applied Physics Letters, 2010, 96, .	1.5	153
134	Probing ferroelectricity in PbZr <sub>0.2</sub> polarized soft x rays. Physical Review B, 2010, 82, .	1.5	43
135	Voltage-dependent ferromagnetic resonance in epitaxial multiferroic nanocomposites. Applied Physics Letters, 2010, 96, .	1.5	27
136	Multiferroics: progress and prospects in thin films. , 2009, , 20-28.		36
137	Magnon sidebands and spin-charge coupling in bismuth ferrite probed by nonlinear optical spectroscopy. Physical Review B, 2009, 79, .	1.1	82
138	Phenomenological analysis of domain width in rhombohedral BiFeO <sub>3</sub> Physical Review B, 2009, 80, .	1.1	29
139	Optical properties and magnetochromism in multiferroic BiFeO <sub>3</sub> Physical Review B, 2009, 79, .	1.1	149
140	Spin-charge-lattice coupling through resonant multimagnon excitations in multiferroic BiFeO <sub>3</sub> . Applied Physics Letters, 2009, 94, 161905.	1.5	43
141	The dependence of oxygen vacancy distributions in BiFeO <sub>3</sub> films on oxygen pressure and substrate. Applied Physics Letters, 2009, 95, .	1.5	52
142	Observation of Ferromagnetic Resonance in SrRuO <sub>3</sub> by the Time-Resolved Magneto-Optical Kerr Effect. Physical Review Letters, 2009, 102, 177601.	2.9	48
143	Surface, bulk, and interface electronic states of epitaxial BiFeO <sub>3</sub> films. Journal of Vacuum Science & Technology B, 2009, 27, 2012-2014.	1.3	17
144	Orientation-dependent potential barriers in case of epitaxial Pt/BiFeO <sub>3</sub> /SrRuO <sub>3</sub> capacitors. Applied Physics Letters, 2009, 94, .	1.5	63

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145	Unraveling Deterministic Mesoscopic Polarization Switching Mechanisms: Spatially Resolved Studies of a Tilt Grain Boundary in Bismuth Ferrite. <i>Advanced Functional Materials</i> , 2009, 19, 2053-2063.	7.8	65
146	Conduction at domain walls in oxide multiferroics. <i>Nature Materials</i> , 2009, 8, 229-234.	13.3	1,212
147	Electric modulation of conduction in multiferroic Ca-doped BiFeO <sub>3</sub> films. <i>Nature Materials</i> , 2009, 8, 485-493.	13.3	481
148	Deterministic control of ferroelastic switching in multiferroic materials. <i>Nature Nanotechnology</i> , 2009, 4, 868-875.	15.6	331
149	Tuning magnetic properties of magnetoelectric BiFeO <sub>3</sub> /NiFe <sub>2</sub> O <sub>4</sub> nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, L5-L9.	1.0	50
150	Nanoscale Control of Domain Architectures in BiFeO <sub>3</sub> Thin Films. <i>Nano Letters</i> , 2009, 9, 1726-1730.	4.5	210
151	Photovoltaic effects in BiFeO <sub>3</sub> . <i>Applied Physics Letters</i> , 2009, 95, .	1.5	460
152	Adsorption-Controlled Growth of BiFeO <sub>3</sub> by MBE and Integration with Wide Band Gap Semiconductors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1528-1533.	1.7	20
153	A Strain-Driven Morphotropic Phase Boundary in BiFeO <sub>3</sub> . <i>Science</i> , 2009, 326, 977-980.	6.0	1,065
154	Polarization Control of Electron Tunneling into Ferroelectric Surfaces. <i>Science</i> , 2009, 324, 1421-1425.	6.0	441
155	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. <i>Nature Materials</i> , 2008, 7, 478-482.	13.3	1,219
156	Linear and nonlinear optical properties of BiFeO <sub>3</sub> . <i>Applied Physics Letters</i> , 2008, 92, .	1.5	213
157	Nanoscale Control of Exchange Bias with BiFeO <sub>3</sub> Thin Films. <i>Nano Letters</i> , 2008, 8, 2050-2055.	4.5	270
158	Epitaxial (001) BiFeO <sub>3</sub> membranes with substantially reduced fatigue and leakage. <i>Applied Physics Letters</i> , 2008, 92, 062910.	1.5	107
159	Critical thickness and orbital ordering in ultrathin $\text{La}_{0.7}\text{Bi}_{0.3}\text{FeO}_3$ . <i>Physical Review B</i> , 2008, 78, .	1.1	372
160	Photoconductivity in BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	447
161	Multiferroics and magnetoelectrics: thin films and nanostructures. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 434220.	0.7	292
162	Strain-Induced Polarization Rotation in Epitaxial (001) $\text{BiFeO}_3$ Thin Films. <i>Physical Review Letters</i> , 2008, 101, 107602.	2.9	221

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163	Adsorption-controlled growth of BiFeO <sub>3</sub> by MBE and integration with wide band gap semiconductors. , 2008, , .		0
164	Growth and magnetic control of twinning structure in thin films of Heusler shape memory compound Ni <sub>2</sub> MnGa. Applied Physics Letters, 2008, 93, .	1.5	39
165	Cation ordering in epitaxial lead zirconate titanate films. Applied Physics Letters, 2008, 93, 262903.	1.5	8
166	Electric-Field Control of Magnetism in Complex Oxide Thin Films. MRS Bulletin, 2008, 33, 1047-1050.	1.7	44
167	Linear and nonlinear optical properties of multifunctional PbVO <sub>3</sub> thin films. Applied Physics Letters, 2008, 92, .	1.5	24
168	Ferroelectric domain wall pinning at a bicrystal grain boundary in bismuth ferrite. Applied Physics Letters, 2008, 93, .	1.5	66
169	Low voltage performance of epitaxial BiFeO <sub>3</sub> films on Si substrates through lanthanum substitution. Applied Physics Letters, 2008, 92, .	1.5	103
170	Suppression of martensitic phase transition at the Ni <sub>2</sub> MnGa film surface. Applied Physics Letters, 2008, 93, 022501.	1.5	20
171	Computer simulation of ferroelectric domain structures in epitaxial BiFeO <sub>3</sub> thin films. Journal of Applied Physics, 2008, 103, .	1.1	70
172	Probing the Role of Single Defects on the Thermodynamics of Electric-Field Induced Phase Transitions. Physical Review Letters, 2008, 100, 155703.	2.9	83
173	Optical band gap of BiFeO <sub>3</sub> grown by molecular-beam epitaxy. Applied Physics Letters, 2008, 92, .	1.5	345
174	Two-phonon coupling to the antiferromagnetic phase transition in multiferroic BiFeO <sub>3</sub> . Applied Physics Letters, 2008, 92, .	1.5	116
175	Anomalously large measured thermoelectric power factor in Sr <sub>1-x</sub> La <sub>x</sub> TiO <sub>3</sub> thin films due to SrTiO <sub>3</sub> substrate reduction. Applied Physics Letters, 2008, 92, 202113.	1.5	54
176	Strain tunability of spontaneous polarization and enhanced ferroelectric properties in epitaxial (001) BiFeO <sub>3</sub> thin films. , 2008, , .		0
177	Intrinsic single-domain switching in ferroelectric materials on a nearly ideal surface. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20204-20209.	3.3	73
178	Spatially resolved mapping of ferroelectric switching behavior in self-assembled multiferroic nanostructures: strain, size, and interface effects. Nanotechnology, 2007, 18, 405701.	1.3	51
179	Planar electrode piezoelectric force microscopy to study electric polarization switching in BiFeO <sub>3</sub> . Applied Physics Letters, 2007, 90, 202909.	1.5	34
180	+Capacitance-voltage characteristics of BiFeO <sub>3</sub> •SrTiO <sub>3</sub> •GaN heteroepitaxial structures. Applied Physics Letters, 2007, 91, .	1.5	53

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181	Adsorption-controlled molecular-beam epitaxial growth of BiFeO <sub>3</sub> . Applied Physics Letters, 2007, 91, .	1.5	91
182	Nanoscale x-ray magnetic circular dichroism probing of electric-field-induced magnetic switching in multiferroic nanostructures. Applied Physics Letters, 2007, 90, 123104.	1.5	23
183	Strain Control of Domain-Wall Stability in Epitaxial $\text{BiFeO}_3$ Thin Films. Physical Review Letters, 2007, 99, 217601.	2.9	109
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