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Multiferroics: progress and prospects in thin films

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1905	Enhanced magnetic and ferroelectric properties of multiferroic CuCrO2 by Ni-doping. <b>2010</b> , 518, e50-e53	19

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1903	Multiferroic Bi0.7Dy0.3FeO3 thin films directly integrated on Si for integrated circuit compatible devices. <b>2010</b> , 518, 5866-5870	15
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1793	dc and high frequency magnetic properties of nanopatterned CoFe2O4 arrays fabricated using sol-gel precursors. <b>2010</b> , 107, 104309	8
1792	Competing phases in BiFeO3 thin films under compressive epitaxial strain. 2010, 81,	90
1791	Microstructure and properties of well-ordered multiferroic Pb(Zr,Ti)O(3)/CoFe(2)O(4) nanocomposites. <b>2010</b> , 4, 1099-107	83
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1783	Multiferroic properties and converse magnetoelectric effect in Bi1⊠CaxFeO3 ceramics. <b>2010</b> , 506, 537-540	29
1782	Multiferroic behavior and electrical conduction of BiFeO3 thin film deposited on quartz substrate. <b>2010</b> , 507, L4-L7	16
1781	Effect of deposition temperature on surface morphology and magnetic properties in epitaxial CoFe2O4 thin films deposited by metal organic chemical vapor deposition. <b>2010</b> , 107, 043908	14
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1775	Effects of morphology and strain on the dielectric response of multiferroic CoFe2O4 <b>B</b> aTiO3 nanocomposite thin films. <b>2010</b> , 108, 034108	13
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1773	Enhanced Photocatalytic Activity and Ferromagnetism in Gd Doped BiFeO3 Nanoparticles. <b>2010</b> , 114, 21390-21396	294
1772	Engineering functionality in the multiferroic BiFeO3controlling chemistry to enable advanced applications. <b>2010</b> , 39, 10813-26	53
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1768	Analysis of the magnetic structure and ferroelectric polarization of monoclinic MnSb(2)S(4) by density functional theory calculations. <b>2010</b> , 49, 10956-9	10
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1762	Magnetodielectric study in SiO2-coated Fe3O4 nanoparticle compacts. <b>2010</b> , 108, 094105	21
1761	Magnetic properties of La doped Bi2FeMnO6 ceramic and film. <b>2010</b> , 108, 093903	7

1760	Structural, electrical, and magnetic properties of multiferroic Bi1\(\mathbb{B}\)LaxFe1\(\mathbb{J}\)CoyO3 thin films. <b>2010</b> , 107, 124109	97
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1743	Multiferroic and fatigue behavior of silicon-based bismuth ferrite sandwiched structure. <b>2011</b> , 21, 7308	17

1742	Tunneling magnetoresistance modulation in a magnetic tunnel junction with a ferroelectric barrier. <b>2011</b> , 22, 085202	10
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1740	Influence of interface effect on the ferroelectric and ferromagnetic properties of CFO/PMNT multilayered thin films. <b>2011</b> ,	
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1737	Electric-poling-induced magnetic anisotropy and electric-field-induced magnetization reorientation in magnetoelectric Ni/(011) [Pb(Mg1/3Nb2/3)O3](1-x)-[PbTiO3]x heterostructure. <b>2011</b> , 109, 07D732	59
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1729	Spontaneous vortex nanodomain arrays at ferroelectric heterointerfaces. <b>2011</b> , 11, 828-34	365
1728	Nonvolatile, reversible electric-field controlled switching of remanent magnetization in multifunctional ferromagnetic/ferroelectric hybrids. <b>2011</b> , 110, 043913	50
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1722	Non-volatile domain nucleation and growth in multiferroic BiFeO3 films. <b>2011</b> , 22, 254030	26
1721	Local weak ferromagnetism in single-crystalline ferroelectric BiFeO3. <b>2011</b> , 107, 207206	101
1720	Near-field examination of perovskite-based superlenses and superlens-enhanced probe-object coupling. <b>2011</b> , 2, 249	74
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1544	Multiferroic properties of Aurivillius phase Bi6Fe2\(\mathbb{L}\)CoxTi3O18 thin films prepared by a chemical solution deposition route. <b>2012</b> , 101, 122402	7º
1543	First-principles characterization of ferromagnetism in N-doped SrTiO3 and BaTiO3. <b>2012</b> , 100, 062409	34
1542	Influence of magnetoelectric coupling on electric field induced magnetization reversal in a composite unstrained multiferroic chain. <b>2012</b> , 85,	23
1541	Atomic and Electronic Structure of the BaTiO(3)(001) (sqrt[5] [sqrt[5])R26.6° Surface Reconstruction. <b>2012</b> , 109, 256802	47
1540	Theoretical model for geometry-dependent magnetoelectric effect in magnetostrictive/piezoelectric composites. <b>2012</b> , 111, 124513	36
1539	Role of dual-laser ablation in controlling the Pb depletion in epitaxial growth of Pb(Zr0.52Ti0.48)O3 thin films with enhanced surface quality and ferroelectric properties. <b>2012</b> , 111, 064102	11
1538	Surface composition of BaTiO3/SrTiO3(001) films grown by atomic oxygen plasma assisted molecular beam epitaxy. <b>2012</b> , 112, 114116	20
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1528	Magnetoelectric coupling of multilayered Pb(Zr0.52Ti0.48)O3-CoFe2O4 film by piezoresponse force microscopy under magnetic field. <b>2012</b> , 112, 074110	10
1527	Study on the Structural, Electrical, and Magnetic Properties of Pure and (Pr\$^{3+}\$,Co\$^{2+}\$)-Doped BiFeO\$_{3}\$ Powders and Thin Films. <b>2012</b> , 51, 11PG06	

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1525	A Review of Smart Material and Vibration Control for Civil Engineering Structure. <b>2012</b> , 204-208, 4097-4100	1
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1523	On the spectra of BAW resonator with ferromagnetic-ferroelectric layered structure at magnetoacoustic resonance. <b>2012</b> ,	O
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1437	Electric-field-induced generation and reversal of ferromagnetic moment in ferrites. <b>2012</b> , 8, 838-844	138

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1419	Magnetic properties of Al doped TbMnO3 thin films grown by pulsed laser deposition. <b>2012</b> , 112, 033914	6

1418	<b>2012</b> , 100, 142901	7
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1393	Electric field control of magnetism in multiferroic heterostructures. <b>2012</b> , 24, 333201	289
1392	Preparation and Dielectric Properties of Cr Doped Multiferroic BiFeO3. <b>2012</b> , 512-515, 1240-1243	1
1391	High-temperature ferroic phase transitions and paraelectric cubic phase in multiferroic Bi0.95+Ee0.9Zr0.1O3. <b>2012</b> , 111, 114106	5
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1387	Charge Order Breaks Magnetic Symmetry in Molecular Quantum Spin Chains. <b>2012</b> , 2012, 1-13	9
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1380	INVESTIGATING ELECTRIC FIELD CONTROL OF MAGNETISM WITH NEUTRON SCATTERING, NONLINEAR OPTICS AND SYNCHROTRON X-RAY SPECTROMICROSCOPY. <b>2012</b> , 26, 1230004	10
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1374	Observation of room temperature saturated ferroelectric polarization in Dy substituted BiFeO3 ceramics. <b>2012</b> , 111, 074105	65
1373	Effect of Y-doping on optical properties of multiferroics BiFeO3 nanoparticles. <b>2012</b> , 2, 305-310	93
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1369	Origin of large dielectric constant in La modified BiFeO3-PbTiO3 multiferroic. <b>2012</b> , 111, 014113	55
1368	Thickness-dependent ferroelectric behaviors of (111)-textured polycrystalline pseudo-cubic BiFeO3 thin films. <b>2012</b> , 60, 288-291	1
1367	Ferroelectric and multiferroic tunnel junctions. <b>2012</b> , 37, 138-143	154
1366	Enhancement in magnetic field sensitivity and reduction in equivalent magnetic noise by magnetoelectric laminate stacks. <b>2012</b> , 111, 104504	15
1365	Topological effects in nanomagnetism: from superparamagnetism to chiral quantum solitons. <b>2012</b> , 61, 1-116	257

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1361	Magnetoimpedance spectroscopy of epitaxial multiferroic thin films. <b>2012</b> , 86,	74
1360	Ferroelastic Strain Induced Antiferroelectric-Ferroelectric Phase Transformation in Multilayer Thin Film Structures. <b>2012</b> , 22, 4159-4164	15
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635	Magnetoelectric Properties of Piezoelectric Piezomagnetic Composites with Elliptical Nanofibers. <b>2020</b> , 33, 368-380	5
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618	Quasicrystals and their Approximants in 2D Ternary Oxides. <b>2020</b> , 257, 1900624	7
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616	Structural, dielectric and magnetic domains properties of Mn-doped BiFeO3 materials. 2020, 17, 1410-1421	2
615	First-principles study on structural, electronic, and ferroelectric properties of high-temperature RMn2O5 (R = Sm, Gd, Dy). <b>2020</b> , 22, 100837	2
614	A magnetocaloric study on the series of 3d-metal chromites ACr2O4 where A´=´Mn, Fe, Co, Ni, Cu and Zn. <b>2020</b> , 499, 166253	3
613	Mn0.7Fe2.3O4 Nanoplatelets Embedded in BaTiO3 Perovskite Thin Films for Multifunctional Composite Barriers. <b>2020</b> , 3, 327-341	1
612	Advanced Materials and Device Architectures for Magnetooptical Spatial Light Modulators. <b>2020</b> , 8, 1901381	9
611	Structural, magnetic, dielectric and optical properties of double-perovskite Bi2FeCrO6 ceramics synthesized under high pressure. <b>2020</b> , 819, 153007	4
610	Effect of W/Co co-substitution on structural, microstructural, magnetic and electrical properties of Bi4NdFeTi3O15 aurivillius compound. <b>2020</b> , 31, 874-884	4
609	Plasma Enhanced Atomic Layer Deposited HfO2 Ferroelectric Films for Non-volatile Memory Applications. <b>2020</b> , 49, 1445-1453	1

608	Enhancement of magnetoelectric properties and coupling coefficient of Co1\( \text{QCuxFe2O4/Ba0.8Sr0.2TiO3} \) composite liquid. <b>2020</b> , 31, 885-895	5
607	Monitoring structural variation on Gd ratio of La modified bismuth ferrite ceramics with enhanced magnetization. <b>2020</b> , 819, 153050	10
606	Progress in multiferroic and magnetoelectric materials: applications, opportunities and challenges. <b>2020</b> , 31, 19487-19510	6
605	Room temperature magnetoelectric properties of [Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3]/Ni0.8Zn0.2Fe2O4 bilayer thin films deposited by laser ablation. <b>2020</b> , 256, 123692	3
604	Advances and future challenges in multifunctional nanostructures for their role in fast, energy efficient memory devices. <b>2020</b> , 277, 128369	3
603	Effects of the sintering temperature on the La0.63Gd0.37MnO3 structure and magnetic properties. <b>2020</b> , 126, 1	O
602	Influence of laser fluence in modifying energy storage property of BiFeO3 thin film capacitor. <b>2020</b> , 32, 101769	0
601	Prediction of two-dimensional ferromagnetic ferroelectric VOF monolayer. <b>2020</b> , 22, 24109-24115	14
600	Polarization-induced anisotropic damping in Co/[Pb (Mg1/3Nb2/3)O3]0.7[PbTiO3]0.3 (011) heterostructure. <b>2020</b> , 117, 132409	
599	Defects in complex oxide thin films for electronics and energy applications: challenges and opportunities. <b>2020</b> , 7, 2832-2859	32
598	Emergent multiferroicity and strain-driven metal-semiconductor transitions in LaMnO/RMnO superlattices (R = Pr, Pm, Sm and Gd). <b>2020</b> , 22, 17503-17512	1
597	Expanded Analogs of Three-Dimensional Lead-Halide Hybrid Perovskites. <b>2020</b> , 132, 19249-19256	1
596	Electronic structure, lattice dynamics, and dielectric properties in cubic perovskite BiMn3Cr4O12 and LaMn3Cr4O12. <b>2020</b> , 538, 110924	1
595	Structural, morphological, optical and dielectric investigations in cobalt doped bismuth ferrite nanoceramics prepared using the sol-gel citrate precursor method. <b>2020</b> , 846, 156334	13
594	Magnetic finite size effects, coercive field and irreversibility in sintered (1-x)BaTiO3⊠CoFe2O4 nano-composites. <b>2020</b> , 245, 122757	1
593	Process-structure-property correlation of (1 $\frac{1}{2}$ )CoFe2O4 + xBaTiO3 (x = 0.2, 0.5, 0.8) composites. <b>2020</b> , 33, 5324-5327	1
592	Induction and control of dielectric relaxation properties in Fe-doped nonstoichiometric SrTiO3 ceramics. <b>2020</b> , 384, 126680	
591	Oxides and the high entropy regime: A new mix for engineering physical properties. <b>2020</b> , 5, 3419-3436	7

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590	Structural, physical and photocatalytic properties of mixed-valence double-perovskite Ba2Pr(Bi,Sb)O6 semiconductor synthesized by citrate pyrolysis technique. <b>2020</b> , 107, 106352	1
589	Multiferroic and photovoltaic current properties of tetragonally strained BiFeO3 thin films. <b>2020</b> , 44, 242-247	1
588	Optimizing phase formation of BiFeO3 and Mn-doped BiFeO3 nanoceramics via thermal treatment using citrate precursor method. <b>2020</b> , 2, 1	4
587	Excellent Bidirectional Adjustable Multistage Resistive Switching Memory in BiFeCrO Thin Film. <b>2020</b> ,	2
586	Strain-Induced Photocurrent Enhancement in Photodetectors Based on Nanometer-Thick ZnO Films on Flexible Polydimethylsiloxane Substrates. <b>2020</b> , 3, 10922-10930	4
585	Resonance properties of magnetic helical structures. <b>2020</b> , 46, 704-711	1
584	Metamagnetoelectric effect in multiferroics A2Cu2Mo3O12 (A=Rb and Cs) quantum spin chain. <b>2020</b> , 598, 412455	2
583	Room-temperature multiferroic behavior in layer-structured Aurivillius phase ceramics. <b>2020</b> , 117, 052903	3
582	Magnetic contributions in multiferroic gadolinium modified bismuth ferrite ceramics. <b>2020</b> , 188, 233-237	3
581	Influence of Pr3+ and Lu3+ co-doping on the magnetoelectric coupling response in BiFeO3 mutiferroic ceramics. <b>2020</b> , 31, 15079-15085	1
580	Structural study of Gd3+ substituted Mg-Mn nanoferrites prepared by solution combustion technique. <b>2020</b> , 33, 1453-1457	
579	Modulation of the electric and magnetic properties by Ti non-stoichiometry in 0.70BiFeO3-0.30BaTixO3 ceramics. <b>2020</b> , 117, 042904	7
578	Bias voltage modulated resistance states in small-area Fe70Ga30 films on ferroelectric Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3TiO3) films. <b>2020</b> , 709, 138241	1
577	Structural and transport properties of La1\(\mathbb{Q}\)Sr Co1\(\mathbb{J}\)Nb O3 thin films. <b>2020</b> , 709, 138250	2
576	Grain to Grain Epitaxy-Like Nano Structures of (Ba,Ca)(ZrTi)O3/ CoFe2O4 for Magneto <b>E</b> lectric Based Devices. <b>2020</b> , 3, 11098-11106	2
575	Tetragonal tungsten bronze/barium hexaferrite room-temperature multiferroic composite ceramics. <b>2020</b> , 2, 1	1
574	All chemical solution deposition of epitaxial porous BiFe0.93Mn0.07O3 thin films. 2020, 31, 17404-17411	1
573	Integration of highly anisotropic multiferroic BaTiO3He nanocomposite thin films on Si towards device applications. <b>2020</b> , 2, 4172-4178	6

572	Self-assembled nitride-metal nanocomposites: recent progress and future prospects. <b>2020</b> , 12, 20564-20579	5
571	Effect of Mn and Ba Codoping on a Magnetic Spin Cycloid of Multiferroic Bismuth Ferrite Nanoparticles. <b>2020</b> , 124, 22266-22277	9
570	Reversible control of magnetism in FeRh thin films. <b>2020</b> , 10, 13923	5
569	Orthorhombic BiFeO3: Theoretical studies on magnetoelectric effects of the multiferroic phase. <b>2020</b> , 102,	O
568	100th anniversary of the discovery of ferroelectricity: How it impacted the current day physics. <b>2020</b> , 569, 348-356	2
567	Atomic-Scale Domain Mediation in Nd-Doped BiFeO3 Film. <b>2020</b> , 2, 4127-4133	
566	Magnetoelectric and magnetostriction characteristics of symmetric three layered structures of nickel - lead zirconate titanate Ihickel and permendure Ilead zirconate titanate Ipermendure. <b>2020</b> , 939, 012023	
565	Improved ferroelectric, piezoelectric, and magnetic properties in BiFeO3(Ba0.85Ca0.15)TiO3 ceramics through Mn addition. <b>2020</b> , 128, 164101	1
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563	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO Thin Films. <b>2020</b> , 10,	2
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562 561	Strain-mediated magneto-electric interactions in hexagonal ferrite and ferroelectric coaxial nanofibers. <b>2020</b> , 10, 230-241  Ferroelectrically tunable magnetism in BiFeO/BaTiO heterostructure revealed by the first-principles calculations. <b>2020</b> , 24, 371-377  Containerless processing of metastable multiferroic composite in Ln-(Mn, Fe)-O system (Ln:	3
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551	Extraordinary magnetic properties of double perovskite EuCoMnO wide band gap semiconductor. <b>2020</b> , 32, 365802	5
550	Dielectric properties of an antiferroelectric/ferroelectric BiFeO3/Co bilayer structure. <b>2020</b> , 46, 22907-22918	27
549	SpinBrbit torque field-effect transistor (SOTFET): Proposal for a magnetoelectric memory. <b>2020</b> , 116, 242405	4
548	New polymorphism for BaTi(IO) with two polymorphs crystallizing in the same space group. <b>2020</b> , 49, 8443-8447	5
547	Ferromagnetic, electric, and ferroelectric properties of samarium and cobalt co-doped bismuth ferrite nanoparticles. <b>2020</b> , 147, 109607	9
546	Annealing heating rate dependence of microstructure and multiferroic properties in Bi4Ti2.9Fe0.1O12/CoFe2O4 layered magnetoelectric composite films prepared by chemical solution deposition method. <b>2020</b> , 46, 15654-15664	5
545	Room Temperature Magnetoelectric Sensor Arrays For Application of Detecting Iron Profiles in Organs. <b>2020</b> , 311, 112064-112064	2
544	Manipulating magnetoelectric energy landscape in multiferroics. <b>2020</b> , 11, 2836	18
543	Enhanced magnetization in multiferroic nanocomposite Bi0.9Gd0.1Fe0.9Mn0.05X0.05O3 (X= Cr, Co) thin films. <b>2020</b> , 709, 138025	O
542	Electronic and thermoelectric properties of alkali metal-based perovskites CsYbF3 and RbYbF3. <b>2020</b> , 29, 117305	1
541	Improved ferromagnetism and magnetodielectric properties of relaxor ferroelectric Ba4-Ca Nd2Fe1.5Co0.5Nb8O30 ceramics with tungsten bronze structure. <b>2020</b> , 842, 155871	2
540	Dynamic percolation of ferromagnetic regions in phase separated manganites using non-uniform electric fields. <b>2020</b> , 127, 213902	О
539	Magnonic Magnetoelectric Coupling in Ferroelectric/Ferromagnetic Composites. <b>2020</b> , 257, 1900750	О
538	Structural, optical and enhanced multiferroic properties of La/Cr co-substituted BiFeO3 nanostructures. <b>2020</b> , 31, 11177-11194	4
537	Noncontact spatiotemporal strain mapping of composite multiferroic cylinders. <b>2020</b> , 16, 857-868	3

536	Microwave synthesis and magnetic properties of bismuth ferrite nanopowder doped with cobalt. <b>2020</b> , 69, 941-946	3
535	Magnetic field effect on the dielectric properties of rare earth doped multiferroic BiFeO3. <b>2020</b> , 513, 167101	2
534	Raman and photoluminescence spectral studies in epitaxial Bi2NiMnO6 double perovskite thin-film samples. <b>2020</b> , 101, 109773	6
533	Realization of magnetoelectric effect in 50-nm-thick Cr2O3 thin film. <b>2020</b> , 13, 043003	5
532	Room temperature magnetoelectric coupling in Fe-doped sodium bismuth titanate ceramics. <b>2020</b> , 830, 154679	5
531	Ferroelectricity and multiferroicity in two-dimensional ScPSe and ScCrPSe monolayers. <b>2020</b> , 22, 7489-7496	9
530	Effect of rare-earth Nd/Sm doping on the structural and multiferroic properties of BiFeO3 ceramics prepared by spark plasma sintering. <b>2020</b> , 46, 15228-15235	11
529	A Review of Thin-Film Magnetoelastic Materials for Magnetoelectric Applications. <b>2020</b> , 20,	35
528	Enhancement of magnetoelectric coupling in Cr doped MnO. <b>2020</b> , 32, 295703	5
527	Phonon and magnetoelastic coupling in AlGaFeO: Raman, magnetization and neutron diffraction studies. <b>2020</b> , 22, 6906-6918	3
526	The influence of interface strain on the magnetization switching process in FeSi/(011)PMN-0.3PT heterostructures. <b>2020</b> , 53, 255003	2
525	Study of structural, optical and enhanced multiferroic properties of Ni doped BFO thin films synthesized by sol-gel method. <b>2020</b> , 831, 154857	16
524	Evolving magneto-electric device technologies. <b>2020</b> , 35, 073001	6
523	Constructing Asymmetrical Ni-Centered {NiNO} Octahedra in Layered Metal-Organic Structures for Near-Room-Temperature Single-Phase Magnetoelectricity. <b>2020</b> , 142, 12841-12849	3
522	Prediction of two-dimensional antiferromagnetic ferroelasticity in an AgF monolayer. <b>2020</b> , 5, 1386-1393	18
521	Effect of Gd substitution on the dielectric and magnetic properties of BSFO-based multiferroic system. <b>2020</b> , 31, 13028-13039	2
520	Electronic band structure of (111) SrRuO3 thin films: An angle-resolved photoemission spectroscopy study. <b>2020</b> , 102,	1
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518	Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic GdFeO3: Evidence from Raman scattering. <b>2020</b> , 102,	6
517	Colossal Magnetoelectric Effect in Core-Shell Magnetoelectric Nanoparticles. <b>2020</b> , 20, 5765-5772	14
516	Expanded Analogs of Three-Dimensional Lead-Halide Hybrid Perovskites. <b>2020</b> , 59, 19087-19094	12
515	Photoferroelectric Thin Films for Flexible Systems by a Three-in-One Solution-Based Approach. <b>2020</b> , 30, 2001897	10
514	Fatigue-Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. <b>2020</b> , 10, 2001536	52
513	Oxygen-vacancy induced magnetic phase transitions in multiferroic thin films. 2020, 6,	13
512	The particle size effect of Yb0.8R0.2MnO3 (R is Sm, Nd, and Eu) on some physical properties. <b>2020</b> , 22, 1	2
511	van der Waals force layered multiferroic hybrid perovskite (CHNH)CuCl single crystals. <b>2020</b> , 22, 4235-4239	11
510	Dielectric, optical, and multiferroic properties of Co-doped SrBi2Nb1.8Fe0.2O9 ceramics. <b>2020</b> , 31, 4719-4731	1
509	Electric-Field-Controlled Antiferromagnetic Spintronic Devices. <b>2020</b> , 32, e1905603	42
508	Novel layered BiMoMO (M = Mn, Fe, Co and Ni) thin films with tunable multifunctionalities. <b>2020</b> , $12,5914-5921$	8
507	Effects of milling time on structural, electrical and ferroelectric features of mechanothermally synthesized multi-doped bismuth ferrite. <b>2020</b> , 126, 1	8
506	Direct Link between Specific Magnetic Domain Activities and Magnetic Noise in Modulated Magnetoelectric Sensors. <b>2020</b> , 13,	7
505	Isobaric heat capacity and standard thermodynamic properties of cation-ordered layered perovskite-like oxides NaLnTiO4 and A2Ln2Ti3O10 (A = H, Na, K; Ln = La, Nd, Gd). <b>2020</b> , 686, 178533	
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503	Bismuth ferrite nanoparticles for modulation of helical structure at the interface of ferroelectric liquid crystal and substrate. <b>2020</b> , 127, 074102	О
502	Anomalous magnetic behaviors of double perovskite R2CrFeO6 (R = rare earth elements) predicted by first-principles calculations. <b>2020</b> , 504, 166670	11
501	Phase evolution, magnetic study and evidence of spin-two phonon coupling in Ca modified Bi0.80La0.20FeO3 ceramics. <b>2020</b> , 827, 154223	5

500	Effects of annealing treatment on microstructure, electrical and magnetodielectric properties of BiFe0.98Co0.02O3/Aldoped ZnO layered thin films prepared by chemical solution deposition. <b>2020</b> , 827, 154278	4
499	Magnetoelectric effects in multiferroic Y-type hexaferrites Ba0.3Sr1.7Co x Mg2⊠ Fe12O22. <b>2020</b> , 29, 037701	Ο
498	Structural and multiferroic properties of BiFeO3/MgLa0.025Fe1.975O4 nanocomposite synthesized by solgel auto combustion route. <b>2020</b> , 31, 2777-2788	4
497	Epitaxial optimization of atomically smooth Sr3Al2O6 for freestanding perovskite films by molecular beam epitaxy. <b>2020</b> , 697, 137815	11
496	Structural, optical and magneto-electric coupling analysis in Mdoped double perovskite La2NiMnO6 nanoparticles. <b>2020</b> , 532, 110688	5
495	Brillouin-Mandelstam spectroscopy of stress-modulated spatially confined spin waves in Ni thin films on piezoelectric substrates. <b>2020</b> , 501, 166440	2
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493	Multiferroic behavior from synergetic response of multiple ordering parameters in BiFeO3 single crystal under high magnetic field up to 50 Tesla. <b>2020</b> , 127, 044101	6
492	90° ferroelectric domain switching effect on interfacial strain mediated magnetoelectric coupling. <b>2020</b> , 53, 145001	2
491	Hybrid Magneto-Electric Materials for Sensing of Weak Electric Field Using Magnetic-Resonance Imaging. <b>2020</b> , 56, 1-7	O
490	First principles study of ferroelectric hexagonal compounds RInO (R = Dy, Er, and Ho): electronic structure, optical and dielectric properties <b>2020</b> , 10, 4080-4086	1
489	Magnetoelectric coupling at the NiFe2O4/PZT (001) interface: A density functional theory investigation. <b>2020</b> , 139, 106401	2
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487	Synthesis, structure and thermal behavior of volatile mononuclear mixed ligand complexes of rare-earth dipivaloylmethanates with diethylenetriamine. <b>2020</b> , 180, 114373	4
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485	BPZT HBARs for Magnetoelastic Stress Generation at GHz Frequencies. <b>2020</b> , 67, 1284-1290	2
484	Low-magnetic-field controlled magnetodielectric coupling at room temperature in a chiral layered diphenylalanine-based 1D-coordination-polymer. <b>2020</b> , 53, 15LT01	О
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481	Enhancement in magnetoelectric properties of lead-free multiferroic composite through high-energy mechanical milling. <b>2020</b> , 31, 9306-9320	1
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478	La2NiMnO6/poly(vinylidene fluoride) nanocomposites with enhanced magnetoelectric voltage. <b>2020</b> , 127, 134103	4
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475	Structural, dielectric and magnetic behavior of BST modified rare earth ortho-ferrite LaFeO3. <b>2020</b> , 46, 16502-16509	8
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473	Structural, thermal, dielectric and multiferroic investigations on LaFeO3 composite systems. <b>2020</b> , 31, 7811-7830	3
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471	Influence of BiFeO3 crystallographic phase on the enhanced interfacial magnetization in BiFeO3/La2/3Sr1/3MnO3 heterostructures. <b>2020</b> , 127, 125302	1
470	Enhanced electrical conductivity and multiferroic property of cobalt-doped bismuth ferrite nanoparticles. <b>2020</b> , 31, 8727-8736	6
469	Magnetic, magnetocaloric and critical behavior investigations of 0.8BiFeO3-0.2BaTi0.95(Yb0. 5Nb0.5)0.05O3 multiferroll ceramic. <b>2020</b> , 834, 155214	O
468	Effect of cobalt-doping on dielectric, magnetic and optical properties of BiFeO3 nanocrystals synthesized by sol [gel technique. <b>2020</b> , 102, 106168	7
467	Achieving ferromagnetic insulating properties in LaBaMnO thin films through nanoengineering. <b>2020</b> , 12, 9255-9265	7
466	Structural, optical, dielectric, and multiferroic properties of sodium and nickel co-substituted barium titanate ceramics. <b>2021</b> , 32, 12828-12840	4
465	Leakage current characteristics of SrTiO3/LaNiO3/Ba0.67Sr0.33TiO3/SrTiO3 heterostructure thin films. <b>2021</b> , 40, 961-967	5

464	Structural, dielectric, ferroelectric and optical properties of Er doped BiFeO3 nanoparticles. <b>2021</b> , 853, 156979	8
463	Study of the magnetocaloric effect in single-phase antiferromagnetic GdMnO3. <b>2021</b> , 149, 109798	5
462	Bandgap tuning of samarium and cobalt co-doped bismuth ferrite nanoparticles. <b>2021</b> , 263, 114842	7
461	Insight into the interaction of magnetic photocatalysts with the incoming light accelerating bacterial inactivation and environmental cleaning. <b>2021</b> , 281, 119420	13
460	Resistive switching and multiferroic behavior of La0.5Pr0.5FeO3 ferrite thin films. <b>2021</b> , 851, 156936	2
459	Resistive Switching and Redox Process at the BaTiO 3 /(La,Sr)MnO 3 Multiferroic-Type Interface. <b>2021</b> , 7, 2000723	6
458	Multiferroic BaCoX 2 O 7 ( $X = P$ , As) Compounds with Incommensurate Structural Waves but Collinear Spin Ingredients. <b>2021</b> , 4, 2000064	2
457	Fully-coupled Computational Modeling of the Dynamic Response of 1-3 Multiferroic Composite Structures. <b>2021</b> , 191, 106086	7
456	Multiferroic and magnetoelectronic polarizations in BaFe12O19 system. <b>2021</b> , 858, 157722	4
455	Substantially improved energy storage capability of ferroelectric thin films for application in high-temperature capacitors. <b>2021</b> , 9, 9281-9290	11
454	Colloidal BaZrS chalcogenide perovskite nanocrystals for thin film device fabrication. <b>2021</b> , 13, 1616-1623	17
453	Optical, dielectric and magnetic investigation of vanadium based double perovskite. <b>2021</b> , 123, 105503	6
452	Structural, electrical and magnetic properties of Eu doped YCrO3 nanoparticles. 2021, 601, 412677	0
451	Magnetoelectric devices based on magnetoelectric bulk composites. <b>2021</b> , 9, 5594-5614	6
450	BiFeO3-based multiferroic materials and their properties. <b>2021</b> , 275-293	
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