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1556	The influence of an extrinsic interfacial layer on the polarization of sputtered BaTiO ₃ film. 2005 , 86, 202905		29
1555	PHASE DEVELOPMENTS, MICROSTRUCTURES, AND FERROELECTRIC PROPERTIES OF BiFeO ₃ THIN FILMS PREPARED BY A SOLUTION. 2005 , 76, 103-109		9

1554 Recent Developments in Thermodynamic Theory of Ferroelectric Thin Films. **2005**, 902, 1

1553 Synthesis of classes of ternary metal oxide nanostructures. **2005**, 5721-35

148

1552 Multiscale Simulations of Quantum Structures.

1551 Recent progress in first-principles studies of magnetoelectric multiferroics. **2005**, 9, 128-139

94

1550 Theoretical investigations of epitaxial strain effects in ferroelectric oxide thin films and superlattices. **2005**, 9, 122-127

49

1549 Effect of epitaxial strain on the spontaneous polarization of thin film ferroelectrics. **2005**, 95, 257601

457

1548 Influence of strain and oxygen vacancies on the magnetoelectric properties of multiferroic bismuth ferrite. **2005**, 71,

301

1547 Misfit dislocations in nanoscale ferroelectric heterostructures. **2005**, 86, 192910

116

1546 First-principles study of epitaxial strain in perovskites. **2005**, 72,

236

1545 Influence of oxygen pressure on the structural and dielectric properties of laser-ablated Ba_{0.5}Sr_{0.5}TiO₃ thin films epitaxially grown on (001) MgO for microwave phase shifters. **2006**, 39, 2282-2288

15

1544 BiFeO₃ film deposited on Si substrate buffered with La_{0.7}Sr_{0.3}MnO₃ electrode. **2006**, 89, 182905

36

1543 STRESS CONTROLLED FERROELECTRIC (BA_{0.5}Sr_{0.5})TiO₃ THIN FILMS PREPARED ON GD₂O₃/SRTiO₃(001) BY A PULSED LASER DEPOSITION. **2006**, 80, 415-421

1542 Stress induced monoclinic phase in epitaxial BaTiO₃ on MgO. **2006**, 99, 104103

31

1541 Real time x-ray observation of lattice pulling during growth of epitaxial Pb(Zr,Ti)O₃ films. **2006**, 89, 221914

9

1540 Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. *Science*, **2006**, 313, 1614-6

333 272

1539 Raman scattering of the model multiferroic oxide BiFeO₃: effect of temperature, pressure and stress. **2006**, 79, 1043-1064

74

1538 Raman spectroscopy studies of Ce-doping effects on Ba_{0.5}Sr_{0.5}TiO₃ thin films. **2006**, 99, 013504

35

1537 High-temperature ferroelectric domain stability in epitaxial PbZr_{0.2}Ti_{0.8}O₃ thin films. **2006**, 88, 162907

37

1536	Ferroelectric phase transition in individual single-crystalline BaTiO ₃ nanowires. 2006 , 6, 735-9	342
1535	IN SITU SYNCHROTRON X-RAY STUDIES OF FERROELECTRIC THIN FILMS. 2006 , 36, 431-465	37
1534	Strain-induced self organization of metal-insulator domains in single-crystalline VO ₂ nanobeams. 2006 , 6, 2313-7	261
1533	The thickness dependence of ferroelectric and magnetic properties in epitaxial BiFeO ₃ thin films. 2006 , 99, 103901	52
1532	Ferroelectric Thin Films: Deposition, Advanced Film Characterization and Novel Device Concepts. 2006 , 335, 137-148	5
1531	Theoretical modeling and simulations of perovskite ferroelectrics: From phenomenological approaches to ab initio. 2006 , 10, 40-51	16
1530	Ferroelectric Materials. 2006 , 6-1-6-66	3
1529	Pressure-induced metallization and structural evolution of Cu ₃ N. 2006 , 243, 573-578	13
1528	Synthesis, molecular structure and magnetic behaviour of Dy ₈ (β -OR) ₆ (μ -OR) ₄ (η -OR) ₈ (θ -OR) ₆ R=C ₂ H ₄ OPri. 2006 , 9, 695-698	4
1527	Coupling interaction in nanostructured piezoelectric/magnetostrictive multiferroic complex films. 2006 , 54, 917-925	53
1526	Theoretical investigation of the intrinsic piezoelectric properties for tetragonal BaTiO ₃ epitaxial films. 2006 , 252, 3394-3400	15
1525	Epitaxial growth of BaTiO ₃ thin films at a low temperature under 300 °C with temperature-controlled BaTiO ₃ buffer layer. 2006 , 294, 236-242	4
1524	Spiral formation during Czochralski growth of rare-earth scandates. 2006 , 295, 84-91	81
1523	Simulation of flexoelectricity effect on imprint behavior of ferroelectric thin films. 2006 , 138, 404-408	21
1522	Ferroelectric thin films: Review of materials, properties, and applications. 2006 , 100, 051606	1262
1521	Substrate effect on in-plane ferroelectric and dielectric properties of Ba _{0.7} Sr _{0.3} TiO ₃ thin films. 2006 , 16, 587-591	14
1520	HRTEM investigation of the epitaxial growth of scandate/titanate multilayers. 2006 , 41, 4434-4439	5
1519	Control of the surface roughening in the epitaxial growth of manganite films. 2006 , 495, 154-158	5

1518	Room Temperature Synthesis of Ferroelectric Barium Titanate Nanoparticles Using Peptide Nanorings as Templates. 2006 , 18, 807-811	99
1517	Anomalous lattice expansion of coherently strained SrTiO ₃ thin films grown on Si(001) by kinetically controlled sequential deposition. 2006 , 73,	56
1516	In-plane and out-of-plane ferroelectric instabilities in epitaxial SrTiO ₃ films. 2006 , 96, 157602	29
1515	Polar domains in lead titanate films under tensile strain. 2006 , 96, 127602	120
1514	Single domain strain relaxed PrScO ₃ template on miscut substrates. 2006 , 89, 221904	13
1513	Strain propagation in nanolayered perovskites probed by ultrafast x-ray diffraction. 2006 , 73,	21
1512	Stress-induced spontaneous dewetting of heteroepitaxial YBa ₂ Cu ₃ O ₇ thin films. 2006 , 73,	33
1511	Domain structure in ultrathin ferroelectric films: Analysis with a free energy model. 2006 , 74,	9
1510	Scaling of structure and electrical properties in ultrathin epitaxial ferroelectric heterostructures. 2006 , 100, 051609	101
1509	Multiferroic epitaxial Pb(Fe _{1-x} Nb _x)O ₃ thin films: A relaxor ferroelectric/weak ferromagnet with a variable structure. 2006 , 89, 132913	19
1508	Nanocrystalline barium titanate films on flexible plastic substrates via pulsed laser annealing. 2006 , 89, 202910	18
1507	Microstructure and enhanced in-plane ferroelectricity of Ba _{0.7} Sr _{0.3} TiO ₃ thin films grown on MgAl ₂ O ₄ (001) single-crystal substrate. 2006 , 89, 232906	21
1506	Probing strain propagation in nanostructured perovskites by ultrafast x-ray diffraction. 2006 ,	
1505	BaTiO ₃ /SrTiO ₃ multilayer thin film electro-optic waveguide modulator. 2006 , 89, 242904	21
1504	Bound electrical charges in BaTiO ₃ ferroelectric thin films: Evidence for spontaneous polarization. 2006 , 73,	4
1503	Lattice strain in epitaxial BaTiO ₃ thin films. 2006 , 88, 152908	29
1502	COMPARISON OF STRUCTURES AND PROPERTIES OF BST THIN FILMS GROWN ON LAO AND MAO SUBSTRATES. 2006 , 86, 103-108	2
1501	Polarization switching dynamics governed by the thermodynamic nucleation process in ultrathin ferroelectric films. 2006 , 97, 247602	77

1500	POLARIZATION VARIATIONS DUE TO DISLOCATION CONFIGURATIONS IN HETEROEPITAXIAL FERROELECTRIC LAYERS. 2006 , 83, 67-80	3
1499	Virtual piezoforce microscopy of polycrystalline ferroelectric films. 2006 , 100, 064105	28
1498	Optimized dielectric properties of SrTiO ₃ :Nb/SrTiO ₃ (001) films for high field effect charge densities. 2006 , 89, 242915	10
1497	Temperature-strain phase diagram for BaTiO ₃ thin films. 2006 , 88, 072905	168
1496	Phase stability of heteroepitaxial polydomain BaTiO ₃ thin films. 2007 , 22, 1384-1389	5
1495	Phenomenological theory of phase transitions in epitaxial BaTiO ₃ thin films. 2007 , 75,	59
1494	Thickness dependence of in-plane dielectric and ferroelectric properties of Ba _{0.7} Sr _{0.3} TiO ₃ thin films epitaxially grown on LaAlO ₃ . 2007 , 90, 132902	17
1493	Observation of room-temperature ferroelectricity in tetragonal strontium titanate thin films on SrTiO ₃ (001) substrates. 2007 , 91, 042908	60
1492	Critical thickness control by deposition rate for epitaxial BaTiO ₃ thin films grown on SrTiO ₃ (001). 2007 , 102, 114311	19
1491	Dynamic disorder in BaTiO ₃ epitaxial films. 2007 , 75,	12
1490	Partial decoupling between strain and polarization in mono-oriented Pb(Zr _{0.2} Ti _{0.8})O ₃ thin film. 2007 , 90, 212904	18
1489	Phase transition temperature of SrTiO ₃ ultrathin films: An annealing study by ultraviolet Raman spectroscopy. 2007 , 91, 112910	7
1488	Ferroelectric and pyroelectric properties of highly (110)-oriented Pb(Zr _{0.40} Ti _{0.60})O ₃ thin films grown on Pt/PaNiO ₃ /BiO ₂ /Si substrates. 2007 , 90, 232908	21
1487	Microstructure and strain relaxation of epitaxial PrScO ₃ thin films grown on (001) SrTiO ₃ substrates. 2007 , 91, 031902	10
1486	Structure and properties of epitaxial ferroelectric PbZr _{0.4} Ti _{0.6} O ₃ /PbZr _{0.6} Ti _{0.4} O ₃ superlattices grown on SrTiO ₃ (001) by pulsed laser deposition. 2007 , 90, 072909	35
1485	Structural and electro-optic properties of Ba _{0.7} Sr _{0.3} TiO ₃ thin films grown on various substrates using pulsed laser deposition. 2007 , 101, 043515	44
1484	Frequency and temperature dependence of tunable dielectric properties of Ba(Zr _{0.2} Ti _{0.8})O ₃ thin films grown on (001) MgO. 2007 , 90, 142913	31
1483	Suppressed dependence of polarization on epitaxial strain in highly polar ferroelectrics. 2007 , 98, 217602	138

1482	Ferroelectric phase transitions in ultrathin films of BaTiO ₃ . 2007 , 99, 077601	58
1481	Diffuse phase transitions in epitaxial (Ba,Sr)TiO ₃ superlattices. 2007 , 76,	9
1480	Phase-field model for epitaxial ferroelectric and magnetic nanocomposite thin films. 2007 , 90, 052909	74
1479	Observation of thickness dependent properties in novel multiferroic thin films. 2007 ,	
1478	Microstructure and electrical properties of (120)O-oriented and of (001)O-oriented epitaxial antiferroelectric PbZrO ₃ thin films on (100) SrTiO ₃ substrates covered with different oxide bottom electrodes. 2007 , 102, 044111	40
1477	Fabrication of epitaxial and transparent Pb(Zr _{0.52} Ti _{0.48})O ₃ ferroelectric capacitors with La _{0.07} Sr _{0.93} SnO ₃ electrodes. 2007 , 90, 082904	7
1476	Improved ferroelectric and leakage properties in symmetric BiFeO ₃ /SrTiO ₃ superlattice. 2007 , 90, 212902	33
1475	Multilayers and superlattices of ferroelectric barium strontium titanate. 2007 , 102, 014108	8
1474	Patterning-controlled morphology of spatially and dimensionally constrained oxide nanostructures. 2007 , 91, 143105	7
1473	Layer-by-layer and pseudo-two-dimensional growth modes for heteroepitaxial BaTiO ₃ films by exploiting kinetic limitations. 2007 , 91, 202901	28
1472	Temperature evolution of the structural properties of monodomain ferroelectric thin film. 2007 , 90, 192910	24
1471	Modern Physics of Ferroelectrics: Essential Background. 2007 , 1-30	75
1470	Effect of Orientation on the Dielectric Properties of Pb _{0.97} La _{0.02} Zr _{0.95} Ti _{0.05} O ₃ (PLZT) Antiferroelectric Thin Films. 2007 , 357, 218-222	1
1469	Deposition Rate Effect on Critical Thickness of BaTiO ₃ Epitaxial Thin Film Grown on SrTiO ₃ (001). 2007 , 1034, 90	1
1468	Coupled ultrafast lattice and polarization dynamics in ferroelectric nanolayers. 2007 , 98, 257601	101
1467	Effect of substrate-induced strains on the spontaneous polarization of epitaxial BiFeO ₃ thin films. 2007 , 101, 114105	105
1466	A Landau Primer for Ferroelectrics. 2007 , 69-116	58
1465	Using ferroelectric poling to change adsorption on oxide surfaces. 2007 , 129, 15684-9	83

1464	Epitaxial Thin-Film Deposition and Dielectric Properties of the Perovskite Oxynitride BaTaO ₂ N. 2007 , 19, 618-623	79
1463	Acoustic Bragg mirrors and cavities made using piezoelectric oxides. 2007 , 90, 042909	30
1462	Trilayer superlattices: A route to magnetoelectric multiferroics?. 2007 , 90, 242916	30
1461	Domain Switching Dynamics in Ferroelectric Ultrathin Film: Fundamental Thickness Limit for FeRAM Application. 2007 ,	1
1460	Strain relaxation and critical temperature in epitaxial ferroelectric Pb(Zr _{0.20} Ti _{0.80})O ₃ thin films. 2007 , 90, 202905	63
1459	Impact of in-plane anisotropic strains on the dielectric and pyroelectric properties of Ba _{0.7} Sr _{0.3} TiO ₃ thin films. 2007 , 101, 014113	15
1458	Growth and Novel Applications of Epitaxial Oxide Thin Films. 2007 , 219-304	25
1457	Interface structure and strain relaxation in BaTiO ₃ thin films grown on GdScO ₃ and DyScO ₃ substrates with buried coherent SrRuO ₃ layer. 2007 , 91, 252906	28
1456	Polarization and lattice strains in epitaxial BaTiO ₃ films grown by high-pressure sputtering. 2007 , 101, 114106	51
1455	Ferroelectricity in Artificial Bicolor Oxide Superlattices. 2007 , 19, 2460-2464	16
1454	Tailoring the Properties of Artificially Layered Ferroelectric Superlattices. 2007 , 19, 4153-4159	153
1453	Deposition of bismuth-titanate films with liquid-delivery spin MO-CVD. 2007 , 144, 132-137	9
1452	Effects of buffer layer on the dielectric properties of BaTiO ₃ thin films prepared by sol-gel processing. 2007 , 145, 28-33	17
1451	Influence of substrates on the static and dynamical properties of ferroelectric thin films. 2007 , 244, 2242-2253	7
1450	Multiferroics: progress and prospects in thin films. 2007 , 6, 21-9	3183
1449	Effect of lattice-mismatch strain on the structural and dielectric properties of (Pb,Sr)TiO ₃ thin films grown by pulsed laser deposition. 2007 , 61, 542-546	5
1448	Substrate dependent structure and in-plane dielectric properties of Ba(Sn _{0.15} Ti _{0.85})O ₃ thin films. 2007 , 9, 1049-1053	11
1447	Influence of the growth mechanism and thermoelastic stresses on the lattice dynamics of heteroepitaxial films of barium strontium titanate. 2007 , 49, 1759-1765	10

1446	Strain Tuning of Ferroelectric Thin Films. 2007 , 37, 589-626	869
1445	Modeling the dependence of properties of ferroelectric thin film on thickness. 2007 , 76,	27
1444	Internal strain formed in oxide ceramics upon spark-plasma sintering. 2007 , 87, 4555-4566	3
1443	Formation of Al ₂ O ₃ /BaTiO ₃ composite thin film to increase the specific capacitance of aluminum electrolytic capacitor. 2008 , 516, 8436-8440	28
1442	Formation of Al ₂ O ₃ /BaTiO ₃ nanocomposite oxide films on etched aluminum foil by sol-gel coating and anodizing. 2008 , 45, 57-61	14
1441	Microstructure, dielectric and photoluminescence properties of Tm-doped Ba _{0.8} Sr _{0.2} TiO ₃ thin films fabricated by sol-gel method. 2008 , 19, 1184-1190	8
1440	Preparation and properties of GaFeO ₃ thin films grown at various oxygen pressures by pulsed laser deposition. 2008 , 91, 97-100	20
1439	A first-principles study of phase transitions in ultrathin films of BaTiO ₃ . 2008 , 70, 263-270	5
1438	A study of flexoelectric coupling associated internal electric field and stress in thin film ferroelectrics. 2008 , 245, 761-768	77
1437	Functional Perovskites [From Epitaxial Films to Nanostructured Arrays. 2008 , 18, 3892-3906	102
1436	Spatially Resolved Mapping of Polarization Switching Behavior in Nanoscale Ferroelectrics. 2008 , 20, 109-114	50
1435	Growth and structural characterization of epitaxial Ba _{0.6} Sr _{0.4} TiO ₃ films deposited on REScO ₃ (110) (RE=Dy, Gd) substrates using pulsed laser deposition. 2008 , 310, 1991-1998	5
1434	Properties of rare-earth scandate single crystals (Re=NdDy). 2008 , 310, 2649-2658	113
1433	Ferromagnetism and possible application in spintronics of transition-metal-doped ZnO films. 2008 , 62, 1-35	570
1432	Magnetoelectric effect in multiferroic heteroepitaxial BaTiO ₃ /NiFe ₂ O ₄ composite thin films. 2008 , 56, 405-412	108
1431	Effects of compressive and tensile stress on the growth mode of epitaxial oxide films. 2008 , 34, 967-970	13
1430	Elaboration and optical properties of GaFeO ₃ thin films. 2008 , 516, 7433-7436	26
1429	Microstructure of dielectric LaLuO ₃ films on (001) SrTiO ₃ substrates. 2008 , 517, 631-634	2

1428	Crystal orientation dependence of the in-plane dielectric properties for Ba(Sn _{0.15} Ti _{0.85})O ₃ thin films. 2008 , 254, 5120-5123	7
1427	Influence of process-induced stress on multiferroic properties of pulse laser deposited Bi _{0.7} Dy _{0.3} FeO ₃ thin films. 2008 , 41, 045003	14
1426	Phenomenological description of phase transitions in thin BaTiO ₃ films. 2008 , 50, 928-936	22
1425	Raman Spectroscopy of Ferroelectric Thin Films and Superlattices. 2008 , 91, 1820-1834	48
1424	Phase-Field Method of Phase Transitions/Domain Structures in Ferroelectric Thin Films: A Review. 2008 , 91, 1835-1844	329
1423	Improper ferroelectricity in perovskite oxide artificial superlattices. 2008 , 452, 732-6	674
1422	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. 2008 , 7, 314-20	297
1421	Effect of strain on the ferroelectric properties in epitaxial perovskite titanate thin films grown on ferromagnetic CoFe ₂ O ₄ layers. 2008 , 58, 1118-1120	11
1420	Substrate effect on in-plane dielectric and microwave properties of Ba(Sn _{0.15} Ti _{0.85})O ₃ thin films. 2008 , 43, 2374-2379	3
1419	Spintronics with multiferroics. 2008 , 20, 434221	262
1418	Fast molecular-dynamics simulation for ferroelectric thin-film capacitors using a first-principles effective Hamiltonian. 2008 , 78,	83
1417	Magnetically induced reorientation of martensite variants in constrained epitaxial NiMnGa films grown on MgO(001). 2008 , 10, 023040	92
1416	Critical thickness of high structural quality SrTiO ₃ films grown on orthorhombic (101) DyScO ₃ . 2008 , 104, 114109	53
1415	Strain sensitivity of polarization in perovskite ferroelectrics. 2008 , 93, 122903	26
1414	Size-dependent optical properties of BaTiO ₃ -SrTiO ₃ superlattices. 2008 , 16, 8219-28	4
1413	Construction of the misfit strain-temperature phase diagrams of epitaxial BiFeO ₃ thin film. 2008 , 44, 82-85	4
1412	The size and strain effects on the electric-field-induced domain evolution and hysteresis loop in ferroelectric BaTiO ₃ nanofilms. 2008 , 44, 404-410	32
1411	Domain configuration and phase transition for BaTiO ₃ thin films on tensile Si substrates. 2008 , 310, 5327-5330	12

1410	Crystal structure and the paraelectric-to-ferroelectric phase transition of nanoscale BaTiO ₃ . 2008 , 130, 6955-63	420
1409	Effect of epitaxial strain on ferroelectric polarization in multiferroic BiFeO ₃ films. 2008 , 92, 012911	126
1408	Interfacial strain effects in epitaxial multiferroic heterostructures of PbZr _x Ti _{1-x} O ₃ /Ba _{0.7} Sr _{0.3} MnO ₃ grown by pulsed-laser deposition. 2008 , 92, 152506	36
1407	Strain-induced polarization rotation in epitaxial (001) BiFeO ₃ thin films. 2008 , 101, 107602	205
1406	HYDROTHERMAL SYNTHESIS OF THIN FILMS OF BARIUM TITANATE NANOTUBE ARRAYS. 2008 , 99, 125-131	5
1405	New phenomena at the interfaces of very thin ferroelectric oxides. 2008 , 20, 264015	20
1404	Structural coherence and ferroelectricity decay in submicron- and nano-sized perovskites. 2008 , 78,	62
1403	Why Are Garnets Not Ferroelectric? A Theoretical Investigation of Y ₃ Fe ₅ O ₁₂ . 2008 , 20, 7545-7550	16
1402	Misfit strain/misfit strain diagram of epitaxial BaTiO ₃ thin films: Thermodynamic calculations and phase-field simulations. 2008 , 93, 232904	44
1401	Growth of nanoscale BaTiO ₃ /SrTiO ₃ superlattices by molecular-beam epitaxy. 2008 , 23, 1417-1432	42
1400	Electrocaloric response of the ferroelectrics. 2008 ,	
1399	Symmetry engineering and size effects in ferroelectric thin films. 2008 , 756-795	
1398	Phase diagram of ferroelectric BaTiO ₃ ultrathin films under open-circuit conditions. 2008 , 20, 135203	10
1397	Enhanced multiferroic properties of (1 1 0)-oriented BiFeO ₃ film deposited on Bi _{3.5} Nd _{0.5} Ti ₃ O ₁₂ -buffered indium tin oxide/Si substrate. 2008 , 41, 225402	14
1396	Strain and Size Effects on Ferroelectric Properties of BaTiO ₃ Nanofilms. 2008 , 25, 1113-1116	2
1395	Strain state, microstructure and electrical transport properties of LaNiO ₃ films grown on Si substrates. 2008 , 41, 195407	22
1394	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: I. Mode I. 2008 , 17, 025037	6
1393	Depth-resolved cathodoluminescence spectroscopy study of defects in SrTiO ₃ . 2008 , 26, 1466	24

- 1392 Origin of Compressive Residual Stress in Alkoxide Derived PbTiO₃Thin Film on Si Wafer. **2008**, 47, 7514-7518 12
- 1391 Magnetic color symmetry of lattice rotations in a diamagnetic material. **2008**, 100, 257601 12
- 1390 Novel Integration of MetalInsulatorMetal (MIM) Capacitors Comprising Perovskite-type Dielectric and Cu Bottom Electrode on Low-Temperature Packaging Substrates. **2008**, 29, 31-33 3
- 1389 Ferroelectricity-induced coupling between light and terahertz-frequency acoustic phonons in BaTiO₃/SrTiO₃ superlattices. **2008**, 101, 197402 19
- 1388 Experimental measurement of the elastic constants of GdScO₃ via resonant ultrasound spectroscopy utilizing ab initio calculations. **2008**, 92, 111915 11
- 1387 Polar distortion in ultrathin BaTiO₃ films studied by in situ LEED μ V. **2008**, 77, 28
- 1386 Composition dependence of dielectric function in ferroelectric BaCo_xTi_{1-x}O₃ films grown on quartz substrates by transmittance spectra. **2008**, 92, 081904 26
- 1385 First-principles modeling of strain in perovskite ferroelectric thin films. **2008**, 81, 607-622 12
- 1384 Strain effect on coercive field of epitaxial barium titanate thin films. **2008**, 92, 142907 42
- 1383 Strain-induced ferromagnetism enhancement in Co:ZnO films. **2008**, 103, 093911 41
- 1382 Influence of mechanical boundary conditions on the electrocaloric properties of ferroelectric thin films. **2008**, 103, 024104 173
- 1381 Influence of symmetry mismatch on heteroepitaxial growth of perovskite thin films. **2008**, 93, 111912 31
- 1380 LOW-TEMPERATURE MONOCLINIC PHASE IN EPITAXIAL (001) BARIUM TITANATE ON (001) CUBIC SUBSTRATES. **2008**, 101, 4-11
- 1379 Strain effects and thickness dependence of ferroelectric properties in epitaxial BiFeO₃ thin films. **2008**, 92, 182902 38
- 1378 Temperature dependence surface structure of BaTiO₃ thin films induced by ferroelectric phase transition. **2008**, 103, 054109
- 1377 Polarization switching in epitaxial films of BaTiO₃: A molecular dynamics study. **2008**, 93, 242905 13
- 1376 Stability of the polydomain state in epitaxial ferroelectric PbTiO₃ films. **2008**, 93, 242907 5
- 1375 Dielectric response and structure of in-plane tensile strained BaTiO₃ thin films grown on the LaNiO₃ buffered Si substrate. **2008**, 92, 062912 20

1374	Growth and structural characterization of $(0.2)\text{Bi}(\text{Zn}_{1-x}\text{Ti}_x)\text{O}_3(0.8)\text{PbTiO}_3$ epitaxial thin films by off-axis rf sputtering. 2008 , 93, 042902	6
1373	Structural changes induced by metal electrode layers on ultrathin BaTiO_3 films. 2008 , 77,	7
1372	Influence of interfacial dislocations on hysteresis loops of ferroelectric films. 2008 , 104, 104110	38
1371	Computational study of (111) epitaxially strained ferroelectric perovskites BaTiO_3 and PbTiO_3 . 2008 , 78,	30
1370	Monodomain strained ferroelectric PbTiO_3 thin films: Phase transition and critical thickness study. 2008 , 78,	31
1369	Wedgelike ultrathin epitaxial BaTiO_3 films for studies of scaling effects in ferroelectrics. 2008 , 93, 072902	29
1368	Redetermination of terbium scandate, revealing a defect-type perovskite derivative. 2008 , 64, i79	13
1367	Multiferroics: progress and prospects in thin films. 2009 , 20-28	13
1366	Influence of anisotropic strain on the dielectric and ferroelectric properties of SrTiO_3 thin films on DyScO_3 substrates. 2009 , 79,	34
1365	Enhancement of multiferroic properties of $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ thin films on SrRuO_3 buffered SrTiO_3 substrates. 2009 , 94, 192903	11
1364	Phase transitions and the temperature dependence of the dielectric properties in tetragonally strained barium strontium titanate films. 2009 , 94, 052904	9
1363	Strain-coupled ferroelectric polarization in $\text{BaTiO}_3/\text{LaTiO}_3$ superlattices. 2009 , 94, 232904	23
1362	Effect of strain on the stability and electronic properties of ferrimagnetic $\text{Fe}_2\text{Ti}_x\text{O}_3$ heterostructures from correlated band theory. 2009 , 106, 073912	6
1361	Effect of large strain on dielectric and ferroelectric properties of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ thin films. 2009 , 95, 012907	15
1360	The influence of point defects and inhomogeneous strain on the functional behavior of thin film ferroelectrics. 2009 , 94, 212905	14
1359	Residual stress estimation in ferroelectric PbTiO_3 thin films by Raman spectroscopy. 2009 , 79,	31
1358	Density-functional theory study of polarization saturation in strained ferroelectrics. 2009 , 80,	6
1357	Mixed Bloch-Néel-Ising character of 180° ferroelectric domain walls. 2009 , 80,	121

1356	Effect of epitaxial strain on the magneto-electric coupling of YMnO ₃ thin films. 2009 , 106, 014109	10
1355	Low temperature magnetism in the perovskite substrate DyScO ₃ . 2009 , 94, 152503	28
1354	Tuning the remanent polarization of epitaxial ferroelectric thin films with strain. 2009 , 95, 122904	53
1353	High piezoelectricity of Pb(Zr,Ti)O ₃ -based ternary compound thin films on silicon substrates. 2009 , 94, 122909	17
1352	Single-crystal-like, c-axis oriented BaTiO ₃ thin films with high-performance on flexible metal templates for ferroelectric applications. 2009 , 94, 252903	18
1351	Domain engineering in compositionally graded ferroelectric films for enhanced dielectric response and tunability. 2009 , 105, 114106	23
1350	Ferroelectric phase transitions in three-component short-period superlattices studied by ultraviolet Raman spectroscopy. 2009 , 105, 054106	6
1349	Ferroelectricity in ultrathin BaTiO ₃ films: probing the size effect by ultraviolet Raman spectroscopy. 2009 , 103, 177601	110
1348	Materials science. Atomically engineered oxide interfaces. <i>Science</i> , 2009 , 323, 1018-9	33-3 60
1347	Giant Static Dielectric Constant of Strained PbTiO ₃ . 2009 , 26, 016801	0
1346	Effect of Uniaxial Strain on the Electrical and Magnetic Property of a One-Dimensional Bimetallic Sandwich Molecular Wire (FeCpVCp) _n . 2009 , 113, 21422-21427	15
1345	Nonvolatile memory with switching interfacial polar structures of nano Si-in-mesoporous silica. 2009 , 95, 143501	5
1344	A gradational system for ferroelectric nanosized (Pb(0.7)Sr(0.3))TiO ₃ particles. 2009 , 21, 025903	4
1343	Tuning functional properties by plastic deformation. 2009 , 11, 083013	5
1342	The fabrication and characterization of PbTiO ₃ nanomesas realized on nanostructured SrRuO ₃ /SrTiO ₃ templates. 2009 , 20, 255705	4
1341	Microstructural orientation, strain state and diffusive phase transition of pure argon sputtered BaTiO ₃ film. 2009 , 42, 175508	9
1340	STRAINED FERROELECTRIC THIN FILMS. 2009 , 01, 21-40	2
1339	The electrical and optical properties of doped BTO thin films. 2009 ,	

1338	Enhanced ferroelectric properties of Fe-doped BaTiO ₃ thin film deposited on LaNiO ₃ /Si substrate by sol-gel technique. 2009 , 63, 2622-2624	21
1337	Interfacial Strain-Induced Oxygen Disorder as the Cause of Enhanced Critical Current Density in Superconducting Thin Films. 2009 , 19, 835-841	41
1336	Interfacial Polar-Bonding-Induced Multifunctionality of Nano-Silicon in Mesoporous Silica. 2009 , 19, 2089-2094	7
1335	Physics and Applications of Bismuth Ferrite. 2009 , 21, 2463-2485	3181
1334	The Inlaid Al ₂ O ₃ Tunnel Switch for Ultrathin Ferroelectric Films. 2009 , 21, 2870-2875	56
1333	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. 2009 , 21, 3794-3798	82
1332	The Materials Science of Functional Oxide Thin Films. 2009 , 21, 3827-3839	56
1331	Crystallographic and dielectric properties of highly oriented BaTiO ₃ films: Influence of oxygen pressure utilized during pulsed laser deposition. 2009 , 22, 395-404	30
1330	Effect of film thickness on ferroelectric domain structure and properties of Pb(Zr _{0.35} Ti _{0.65})O ₃ /SrRuO ₃ /SrTiO ₃ heterostructures. 2009 , 44, 5318-5324	9
1329	Interface effects on highly epitaxial ferroelectric thin films. 2009 , 44, 5274-5287	32
1328	Review of magnetoelectric perovskite-spinel self-assembled nano-composite thin films. 2009 , 44, 5080-5094	93
1327	Ferroelectricity in chemical nanostructures: proximal probe characterization and the surface chemical environment. 2009 , 44, 5205-5213	7
1326	The role of a conductive CaRuO ₃ bottom electrode for ferroelectric BaTiO ₃ films on a Si substrate. 2009 , 206, 1478-1483	2
1325	Ferroelectrics at the nanoscale. 2009 , 206, 577-587	42
1324	Giant tunnel electroresistance for non-destructive readout of ferroelectric states. 2009 , 460, 81-4	714
1323	Strain engineering and one-dimensional organization of metal-insulator domains in single-crystal vanadium dioxide beams. 2009 , 4, 732-7	480
1322	Modifying Structures and Ferroelectric Properties of Pb(Zr _{0.6} Ti _{0.4})O ₃ Thin Films by Constraint-Annealing of Precrystallized Film. 2009 , 92, 389-395	1
1321	Dynamical behavior of the phase transition of strained from atomistic simulations. 2009 , 404, 2730-2732	5

1320	Size effect on SrRuO ₃ /BaTiO ₃ /SrRuO ₃ ferroelectric ultrathin film capacitor. 2009 , 149, 802-805	8
1319	Microstructure and grain size dependence of ferroelectric properties of BaTiO ₃ thin films on LaNiO ₃ buffered Si. 2009 , 29, 1995-2001	20
1318	Nanostructure and performance of Pt/LaNiO ₃ composite film for ferroelectric film devices. 2009 , 57, 4109-4114	17
1317	A model system for strain effects: epitaxial magnetic films on a piezoelectric substrate. 2009 , 71, 361-366	35
1316	Strain effects on the electric polarization of BiMnO ₃ . 2009 , 71, 435-437	18
1315	Theory of the structure of electronic polarization and its strain dependence in ferroelectric perovskites. 2009 , 79,	7
1314	Electronic and magnetic structure of RScO ₃ (R=Sm,Gd,Dy) from x-ray spectroscopies and first-principles calculations. 2009 , 79,	33
1313	Effects of film thickness on microstructure and properties of Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ thin films fabricated by chemical solution deposition. 2009 , 487, 331-334	5
1312	Tunneling electroresistance effect in ferroelectric tunnel junctions at the nanoscale. 2009 , 9, 3539-43	454
1311	First principles studies of multiferroic materials. 2009 , 21, 303201	147
1310	Prediction of electrically induced magnetic reconstruction at the manganite/ferroelectric interface. 2009 , 80,	193
1309	A ferroelectric oxide made directly on silicon. <i>Science</i> , 2009 , 324, 367-70	33-3 320
1308	Thermal-strain-induced enhancement of electromagnetic properties of SiC/MgB ₂ composites. 2009 , 94, 042510	34
1307	Phenomenological theory of phase transitions in epitaxial Ba _x Sr _{1-x} TiO ₃ thin films. 2009 , 79,	61
1306	The In-Plane Dielectric and Microwave Properties of Barium Stannate Titanate Thin Films. 2009 , 388, 60-66	1
1305	Raman scattering of perovskite DyScO(3) and GdScO(3) single crystals. 2009 , 21, 175901	12
1304	Epitaxial growth and characterization of Eu _{0.5} Sr _{0.5} CoO ₃ thin films by off-axis sputtering. 2009 , 95, 122505	3
1303	Effective Hamiltonian Approach to Studying the Field-Induced Structural Phase Transition of BaTiO ₃ . 2009 , 48, 021403	2

1302	General surfactant-free synthesis of MTiO ₃ (M = Ba, Sr, Pb) perovskite nanostrips. 2009 , 19, 976	57
1301	Crystallographic texture optimisation in polycrystalline ferroelectric films for Random Access Memory applications. 2009 , 35, 293	1
1300	Effect of Back-Etching on Electrical Properties of (111) - oriented PZT thin films. 2009 , 34, 113-116	
1299	Optical property of BaTiO ₃ ferroelectric film at room temperature. 2009 ,	
1298	(100) MgAl ₂ O ₄ as a lattice-matched substrate for the epitaxial thin film deposition of the relaxor ferroelectric PMN-PT. 2010 , 98, 187-194	8
1297	Nanoscale engineering of ferroelectric functionality. 2010 , 24, 15-19	1
1296	Effects of bottom electrodes on dielectric properties of epitaxial 2% Mn doped Ba(Zr _{0.2} Ti _{0.8})O ₃ thin films. 2010 , 21, 149-152	2
1295	Effect of the electrode structure on the electrical properties of alkoxide derived ferroelectric thin film. 2010 , 64, 1742-1744	12
1294	High K Capacitors and OFET Gate Dielectrics from Self-Assembled BaTiO ₃ and (Ba,Sr)TiO ₃ Nanocrystals in the Superparaelectric Limit. 2010 , 20, 554-560	91
1293	Self-Assembled Heteroepitaxial Oxide Nanocomposite Thin Film Structures: Designing Interface-Induced Functionality in Electronic Materials. 2010 , 20, 2035-2045	213
1292	Atomically Defined Rare-Earth Scandate Crystal Surfaces. 2010 , 20, 3490-3496	67
1291	Phase-transition temperatures of strained single-crystal SrRuO ₃ thin films. 2010 , 22, 759-62	70
1290	Magnetoelectric coupling effects in multiferroic complex oxide composite structures. 2010 , 22, 2900-18	687
1289	Misfit strain modulated phase structures of epitaxial Pb(Zr _{1-x} Ti _x)O ₃ thin films: The effect of substrate and film thickness. 2010 , 42, 816-826	36
1288	X-ray diffraction stress analysis of ferroelectric thin films with ideal (h k l) textures considering the piezoelectric coupling effect. 2010 , 405, 1113-1118	2
1287	Phenomenological analysis of phase transitions in epitaxial perovskite ferroelectric thin films. 2010 , 405, 1901-1907	25
1286	Advances in the growth and characterization of magnetic, ferroelectric, and multiferroic oxide thin films. 2010 , 68, 89-133	501
1285	Improved dielectric properties of CaCu ₃ Ti ₄ O ₁₂ thin films on oxide bottom electrode of La _{0.5} Sr _{0.5} CoO ₃ . 2010 , 518, 3417-3421	1

1284	Preparation of epitaxial $\text{Eu}_{0.65}\text{Y}_{0.35}\text{MnO}_3$ thin film on $\text{Nb:SrTiO}_3(111)$ substrate. 2010 , 518, e85-e88	
1283	Enhanced dielectric property from highly (100)-oriented barium zirconate titanate compositional gradient films. 2010 , 518, e89-e92	3
1282	Origin of compressive strain and phase transition characteristics of thin BaTiO_3 film grown on LaNiO_3/Si substrate. 2010 , 207, 2511-2516	14
1281	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. 2010 , 466, 954-8	586
1280	Oxide Thin Film Heterostructures on Large Area, with Flexible Doping, Low Dislocation Density, and Abrupt Interfaces: Grown by Pulsed Laser Deposition. 2010 , 2010, 1-27	21
1279	EFFECT OF EPITAXIAL STRAIN ON THE STRUCTURAL AND FERROELECTRIC PROPERTIES OF $\text{Bi}_2\text{FeCrO}_6$ THIN FILMS. 2010 , 03, 83-88	11
1278	Thermodynamic theory of strain-mediated direct magnetoelectric effect in multiferroic film-substrate hybrids. 2010 , 21, 265701	24
1277	Optical second harmonic generation in the centrosymmetric magnetic semiconductors EuTe and EuSe . 2010 , 81,	17
1276	Effect of electrode configurations on the process-induced imprint behavior of epitaxial $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ capacitors. 2010 , 96, 262902	13
1275	Evidence for strain-induced ferroelectric order in epitaxial thin-film KTaO_3 . 2010 , 104, 227601	58
1274	Applying uniform reversible strain to epitaxial oxide films. 2010 , 96, 151905	81
1273	Control of orbital ordered state in strained $\text{Nd}_{0.25}\text{Sr}_{1.75}\text{MnO}_4$ films. 2010 , 96, 202508	3
1272	Modeling of ferroelectric domain imaging by atomic force microscopy. 2010 , 108, 064102	2
1271	Structural effects of Sc doping on the multiferroic TbMnO_3 . 2010 , 81,	18
1270	Structural phases of strained LaAlO_3 driven by octahedral tilt instabilities. 2010 , 82,	59
1269	Thickness-dependent twinning evolution and ferroelectric behavior of epitaxial BiFeO_3 (001) thin films. 2010 , 82,	28
1268	Electrical and Magnetic Properties of Polycrystalline Mn-Doped BaTiO_3 Thin Films Grown on Pt/Sapphire Substrates by Pulsed Laser Deposition. 2010 , 67, 212-217	7
1267	Size dependent domain configuration and electric field driven evolution in ultrathin ferroelectric films: A phase field investigation. 2010 , 107, 034107	18

1266	Pulsed Laser Deposition of BaTiO ₃ Thin Films on Different Substrates. 2010 , 2010, 1-5	11
1265	Oxides heterostructures for nanoelectronics. 2010 , 7, 320	23
1264	Chemically synthesized metal-oxide-metal segmented nanowires with high ferroelectric response. 2010 , 21, 335601	2
1263	Wide-range strain tunability provided by epitaxial LaAl _{1-x} Sc _x O ₃ template films. 2010 , 12, 113053	7
1262	Temperature-dependent Raman scattering of DyScO ₃ and GdScO ₃ single crystals. 2010 , 22, 165901	11
1261	Orientation Dependence of Transverse Piezoelectric Properties of Epitaxial BaTiO ₃ Films. 2010 , 49, 09MA09	14
1260	Quantifying octahedral rotations in strained perovskite oxide films. 2010 , 82,	264
1259	Bridging multiferroic phase transitions by epitaxial strain in BiFeO ₃ . 2010 , 105, 057601	136
1258	Ferroelectric control of spin polarization. <i>Science</i> , 2010 , 327, 1106-10	33-3 569
1257	Probing Local Dipoles and Ligand Structure in BaTiO ₃ Nanoparticles. 2010 , 22, 4386-4391	88
1256	Soft-mode spectroscopy of epitaxial BaTiO ₃ /SrTiO ₃ superlattices. 2010 , 82,	13
1255	Extended mapping and exploration of the vanadium dioxide stress-temperature phase diagram. 2010 , 10, 2667-73	186
1254	Melting of Bi sublattice in nanosized BiFeO ₃ Perovskite by resonant X-ray diffraction. 2010 , 105, 185501	32
1253	Finite curvature-mediated ferroelectricity. 2010 , 10, 542-6	33
1252	. 2010 ,	1
1251	High-density NiTiO ₃ /TiO ₂ nanotubes synthesized through sol-gel method using well-ordered TiO ₂ membranes as template. 2010 , 498, 37-41	31
1250	Self-assembled single-phase perovskite nanocomposite thin films. 2010 , 10, 597-602	29
1249	Invariant lattice strain and polarization in BaTiO ₃ -CaTiO ₃ ferroelectric alloys. 2010 , 22, 052204	33

1248	Optical properties of quasi-tetragonal BiFeO ₃ thin films. 2010 , 96, 131907	133
1247	Quantum Effect on SrRuO ₃ /BaTiO ₃ /SrRuO ₃ Ferroelectric Ultrathin Film Capacitor. 2010 , 401, 246-250	4
1246	Sol-gel-derived epitaxial nanocomposite thin films with large sharp magnetoelectric effect. 2010 , 4, 6836-42	29
1245	Effect of substrate orientation on lattice relaxation of epitaxial BiFeO ₃ thin films. 2010 , 108, 014104	42
1244	Probing ferroelectricity in PbZr _{0.2} Ti _{0.8} O ₃ with polarized soft x rays. 2010 , 82,	35
1243	Ferroelectricity in strain-free SrTiO ₃ thin films. 2010 , 104, 197601	205
1242	Strain dependent defect mediated ferromagnetism in Mn-doped and undoped ZnO thin films. 2010 , 108, 053911	20
1241	Random local strain effects in homovalent-substituted relaxor ferroelectrics: A first-principles study of BaTi _{0.74} Zr _{0.26} O ₃ . 2010 , 82,	46
1240	Strain relaxation in epitaxial (Pb,Sr)TiO ₃ thin films on NdGaO ₃ substrates. 2010 , 96, 102901	16
1239	Temperature-dependent Raman scattering of KTa _{1-x} Nb _x O ₃ thin films. 2010 , 96, 262903	25
1238	Bio-inspired nanofabrication of barium titanate. 2010 , 20, 7916	13
1237	Ferroelectric, electrical, and structural properties of Dy and Sc co-doped BaTiO ₃ . 2011 , 21, 6292	37
1236	Effects of film thickness and mismatch strains on magnetoelectric coupling in vertical heteroepitaxial nanocomposite thin films. 2011 , 109, 094102	16
1235	Quantification of internal electric fields and local polarization in ferroelectric superlattices. 2011 , 5, 640-6	28
1234	Strong growth orientation dependence of strain relaxation in epitaxial (Ba,Sr)TiO ₃ films and the resulting dielectric properties. 2011 , 109, 091605	23
1233	Properties of epitaxial (110) BaTiO ₃ films from first principles. 2011 , 84,	25
1232	Strain Relaxation and Dislocation Evolution in Epitaxial Perovskite Oxide Thin Films. 2011 , 125, 73-80	2
1231	Strain-induced shift of the crystal-field splitting of SrTiO ₃ embedded in scandate multilayers. 2011 , 3, 1545-51	1

1230	Electric-field-induced monoclinic phase in (Ba,Sr)TiO ₃ thin film. 2011 , 109, 074111	3
1229	Strain Effect on Structural Transition in SrRuO ₃ Epitaxial Thin Films. 2011 , 11, 5483-5487	27
1228	Spontaneous vortex nanodomain arrays at ferroelectric heterointerfaces. 2011 , 11, 828-34	365
1227	Dipole moment and spontaneous polarization of ferroelectric nanoparticles in a nonpolar fluid suspension. 2011 , 84,	49
1226	Strong strain dependence of ferroelectric coercivity in a BiFeO ₃ film. 2011 , 98, 142902	48
1225	Decisive role of oxygen vacancy in ferroelectric versus ferromagnetic Mn-doped BaTiO ₃ thin films. 2011 , 109, 084105	96
1224	Raman scattering of perovskite SmScO ₃ and NdScO ₃ single crystals. 2011 , 84, 542-554	21
1223	Strain Effects of the Structural Characteristics of Ferroelectric Transition in Single-Domain Epitaxial BiFeO ₃ Films. 2011 , 28, 067702	4
1222	The coexistence of ferroelectricity and ferromagnetism in Mn-doped BaTiO ₃ thin films. 2011 , 20, 127701	17
1221	Terahertz dielectric response of ferroelectric Ba(x)Sr(1-x)TiO ₃ thin films. 2011 , 58, 2276-80	8
1220	The size-dependent ferroelectric phase transition in BaTiO ₃ nanocrystals probed by surface plasmons. 2011 , 5, 507-15	38
1219	Giant flexoelectric effect in ferroelectric epitaxial thin films. 2011 , 107, 057602	312
1218	Stress-controlled Pb(Zr _{0.52} Ti _{0.48})O ₃ thick films by thermal expansion mismatch between substrate and Pb(Zr _{0.52} Ti _{0.48})O ₃ film. 2011 , 110, 124101	58
1217	Sizable electrocaloric effect in a wide temperature range tuned by tensile misfit strain in BaTiO ₃ thin films. 2011 , 109, 126102	33
1216	Nanotechnology Research Directions for Societal Needs in 2020. 2011 ,	151
1215	Enhanced ferroelectricity of BaTiO ₃ film by optimizing its conducting electrode layer. 2011 , 21, 6280	3
1214	Domain engineered ferroelectric energy harvesters on a substrate. 2011 , 109, 104106	11
1213	Multiferroic phase transition near room temperature in BiFeO ₃ films. 2011 , 107, 237601	80

1212	SIZE EFFECTS IN PEROVSKITE FERROELECTRIC NANOSTRUCTURES: CURRENT PROGRESS AND FUTURE PERSPECTIVES. 2011 , 01, 289-301	4
1211	Enhanced critical temperature in epitaxial ferroelectric Pb(Zr _{0.2} Ti _{0.8})O ₃ thin films on silicon. 2011 , 98, 012903	23
1210	Room temperature ferromagnetism and magnetoelectric coupling in (K _{0.5} Na _{0.5})NbO ₃ PLD nanocrystalline films. 2011 , 509, 2914-2918	9
1209	Tunable tunneling electroresistance in ferroelectric tunnel junctions by mechanical loads. 2011 , 5, 1649-56	43
1208	Electrically controllable spontaneous magnetism in nanoscale mixed phase multiferroics. 2011 , 2, 225	140
1207	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. 2011 , 6, 491-5	191
1206	Strain-induced ferroelectricity in KTaO ₃ thin films. 2011 , 96, 37003	1
1205	Microstructure and optical properties of Zn-doped BaTiO ₃ thin films. 2011 , 276, 012163	8
1204	Measurement of the elastic tensor of SmScO ₃ and NdScO ₃ using resonant ultrasound spectroscopy with ab initio calculations. 2011 , 1, 032154	10
1203	Large coercivity and polarization of sol-gel derived BaTiO ₃ nanowires. 2011 , 110, 064112	7
1202	Octahedral tilt transitions in relaxed epitaxial Pb(Zr _{1-x} Ti _x)O ₃ films. 2011 , 109, 094104	6
1201	Probing Ferroelectrics Using Optical Second Harmonic Generation. 2011 , 94, 2699-2727	198
1200	Abnormal electrocaloric effect of Na _{0.5} Bi _{0.5} TiO ₃ /BaTiO ₃ lead-free ferroelectric ceramics above room temperature. 2011 , 46, 1866-1869	200
1199	Flexoelectric rotation of polarization in ferroelectric thin films. 2011 , 10, 963-7	416
1198	Novel multifunctional materials based on oxide thin films and artificial heteroepitaxial multilayers. 2011 , 208, 232-251	41
1197	Effects of Pb(Mn,Nb)O ₃ doping on the properties of PZT-based films deposited on silicon substrates. 2011 , 208, 2460-2466	9
1196	Structure and properties of functional oxide thin films: insights from electronic-structure calculations. 2011 , 23, 3363-81	284
1195	Metal-Insulator-like transition in the LaAlO ₃ /BaTiO ₃ interface. 2011 , 11, 521-524	4

1194	Nanoscale studies of defect-mediated polarization switching dynamics in ferroelectric thin film capacitors. 2011 , 11, 1111-1125	53
1193	Edge and finite size effects in polycrystalline ferroelectrics. 2011 , 59, 191-201	7
1192	Strain effects in low-dimensional transition metal oxides. 2011 , 71, 35-52	115
1191	Epitaxy of BaTiO ₃ thin film on Si(001) using a SrTiO ₃ buffer layer for non-volatile memory application. 2011 , 88, 1232-1235	86
1190	Asymmetric electrical properties in Pt/Ba _{0.5} Sr _{0.5} Ti _{0.99} Co _{0.01} O ₃ /Nb-doped SrTiO ₃ capacitors. 2011 , 406, 3406-3409	12
1189	Impact of epitaxial strain on the ferromagnetic transition temperature of SrRuO ₃ thin films. 2011 , 519, 6264-6268	9
1188	High-temperature piezoresponse force microscopy. 2011 , 99, 173103	11
1187	Structural coupling across the LaAlO ₃ /SrTiO ₃ interface: High-resolution x-ray diffraction study. 2011 , 84,	11
1186	Ferroelectric transitions in epitaxial Pb _{0.5} Sr _{0.5} TiO ₃ films studied by dielectric analysis. 2011 , 84,	17
1185	The half-metallic properties and geometrical structures of cubic BaMnO ₃ and BaTiO ₃ /BaMnO ₃ superlattice. 2011 , 109, 083715	9
1184	Marked enhancement of N _B I temperature in strained YMnO ₃ thin films probed by femtosecond spectroscopy. 2011 , 94, 27006	15
1183	Classification of laminate domain patterns in ferroelectrics. 2011 , 83,	29
1182	The influence of thermal stresses on the phase composition of 0.65Pb(Mg _{1/3} Nb _{2/3})O ₃ 0.35PbTiO ₃ thick films. 2011 , 109, 014101	9
1181	Epitaxial strain and antiferromagnetism in Heusler Fe ₂ VSi thin films. 2011 , 109, 073911	14
1180	Structural transition in LaVO ₃ /SrVO ₃ superlattices and its influence on transport properties. 2011 , 98, 212106	15
1179	Shear-driven morphotropic phase boundary in epitaxial ferroelectric thin films. 2011 , 84,	25
1178	Thickness-dependent structural phase transition of strained SrRuO ₃ ultrathin films: The role of octahedral tilt. 2011 , 84,	75
1177	Effect of strain and deadlayer on the polarization switching of ferroelectric thin film. 2011 , 110, 114111	20

1176	Controlled cation stoichiometry in pulsed laser deposition-grown BaTiO ₃ epitaxial thin films with laser fluence. 2011 , 99, 081907	47
1175	Free-standing ferroelectric multilayers: Crossover from thin-film to bulk behavior. 2011 , 110, 074116	7
1174	A Review of Domain Modelling and Domain Imaging Techniques in Ferroelectric Crystals. 2011 , 4, 417-447	79
1173	Ferroelectricity of SrTiO ₃ Thin Films Prepared by Dynamic-Aurora Pulsed Laser Deposition. 2011 , 485, 11-14	1
1172	New Multilayer Architectures for Piezoelectric BaTiO ₃ Cantilever Systems. 2011 , 1325, 111	3
1171	Highly C-Axis Oriented Barium Titanate Ferroelectric Films Deposited on SrTiO ₃ Substrate Using an Off-Axis Sputtered Conductive Oxide Layer as Bottom Electrode. 2011 , 399-401, 926-929	
1170	Effect of Stress Engineering on the Electrical Properties of BaTiO ₃ Thin Film. 2011 , 50, 09NA03	9
1169	Size Effect of Elastic and Electromechanical Properties of BaTiO ₃ Films from First-Principles Method. 2011 , 124, 79-86	3
1168	Tailoring a two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (001) interface by epitaxial strain. 2011 , 108, 4720-4724	207
1167	Epitaxial Thin-Film Growth of SrRuO ₃ , Sr ₃ Ru ₂ O ₇ , and Sr ₂ RuO ₄ from a SrRuO ₃ Target by Pulsed Laser Deposition. 2011 , 4, 025501	38
1166	Coherent in-plane tensile strain in perovskite Ba _{0.8} Sr _{0.2} TiO ₃ films on spinel MgAl ₂ O ₄ substrates. 2012 , 100, 032902	2
1165	Interface dipole effect on thin film ferroelectric stability: First-principles and phenomenological modeling. 2012 , 85,	41
1164	Band-gap variation in RScO ₃ (R=Pr, Nd, Sm, Eu, Gd, Tb, and Dy): X-ray absorption and O K-edge x-ray emission spectroscopies. 2012 , 86,	15
1163	Strain evolution of each type of grains in poly-crystalline (Ba,Sr)TiO ₃ thin films grown by sputtering. 2012 , 2, 939	8
1162	Direct determination of the effect of strain on domain morphology in ferroelectric superlattices with scanning probe microscopy. 2012 , 112, 052011	6
1161	Ferroelectric properties of Pb(Zr,Ti)O ₃ films under ion-beam induced strain. 2012 , 112, 104111	4
1160	Doping-induced phase transitions in ferroelectric BaTiO ₃ from first-principles calculations. 2012 , 86,	35
1159	Phase transitions in ferroelectric Pb _{0.5} Sr _{0.5} TiO ₃ films probed by spectroscopic ellipsometry. 2012 , 86,	16

1158	First-principles study of intermixing and polarization at the DyScO ₃ /SrTiO ₃ interface. 2012 , 85,	7
1157	Correlation between growth dynamics and dielectric properties of epitaxial BaTiO ₃ films. 2012 , 100, 102904	19
1156	Ferroelectric phase transition in strained multiferroic (Bi _{0.9} La _{0.1}) ₂ NiMnO ₆ thin films. 2012 , 100, 022902	12
1155	Strain-induced effects on the dielectric constant for thin, crystalline rare earth oxides on silicon. 2012 , 100, 232905	10
1154	Electronic Structure of Rare-Earth Scandates from X-Ray Spectroscopy and First-Principles Calculations. 2012 , 438, 45-54	1
1153	Giant flexoelectric effect through interfacial strain relaxation. 2012 , 370, 4944-57	56
1152	Strain-Induced Electrical Properties of Lead Zirconate Titanate Thin Films on a Si wafer with Controlled Oxide Electrode Structure. 2012 , 51, 09LA13	4
1151	The role of deposition conditions on the structure and magnetic properties of SrTi _{1-x} FexO ₃ films. 2012 , 111, 07A918	11
1150	Tuned dielectric, pyroelectric and piezoelectric properties of ferroelectric P(VDF-TrFE) thin films by using mechanical loads. 2012 , 111, 044102	17
1149	Epitaxial Piezoelectric Pb(Zr _{0.2} Ti _{0.8})O ₃ Thin Films on Silicon for Energy Harvesting Devices. 2012 , 2012, 1-7	5
1148	Low temperature processing of alkoxide-derived PMN thin films. 2012 , 30, 012002	2
1147	Strain-arranged structure in amorphous films. 2012 , 27, 2819-2828	1
1146	Real-Time Observation of Temperature-Dependent Strain in Poly(3-hexylthiophene) Crystals in a Mixed Donor and Acceptor Thin Film. 2012 , 5, 051401	4
1145	Strain-induced phase transitions in epitaxial NaNbO ₃ thin films grown by metalorganic chemical vapour deposition. 2012 , 45, 1015-1023	32
1144	Advanced synthesis techniques and routes to new single-phase multiferroics. 2012 , 16, 199-215	84
1143	Enhanced dielectric properties of Pb _{0.92} La _{0.08} Zr _{0.52} Ti _{0.48} O ₃ films with compressive stress. 2012 , 112, 114117	30
1142	Phase transitions and electromechanical properties for barium titanate and lead titanate ferroelectric crystals under one-dimensional shock wave compression. 2012 , 112, 114118	1
1141	Thin-film piezoelectric MEMS. 2012 , 37, 1007-1017	202

1140	Strain dependent polarization and dielectric properties of epitaxial BaTiO ₃ from first-principles. 2012 , 112, 014109	10
1139	Ferroelectric tunnel memristor. 2012 , 12, 5697-702	229
1138	Innovative nanocrystal-based technologies for ceramic devices with novel electronic functions. 2012 , 1, 79-88	7
1137	Emergent phenomena at multiferroic heterointerfaces. 2012 , 370, 4856-71	38
1136	Grain size effect on the structural and dielectric properties of Pb _{0.85} La _{0.15} TiO ₃ ferroelectric ceramic compound. 2012 , 38, 5879-5887	12
1135	Nanoscale ferroelectric tunnel junctions based on ultrathin BaTiO ₃ film and Ag nanoelectrodes. 2012 , 101, 142905	48
1134	Thickness-dependent polarization of strained BiFeO ₃ films with constant tetragonality. 2012 , 109, 267601	49
1133	Study of strain effect on in-plane polarization in epitaxial BiFeO ₃ thin films using planar electrodes. 2012 , 86,	43
1132	Incipient ferroelectricity in 2.3% tensile-strained CaMnO ₃ films. 2012 , 85,	51
1131	Characteristics of Strain-Induced In _x Ga _{1-x} As Nanowires Grown on Si(111) Substrates. 2012 , 12, 2994-2998	22
1130	Engineering polarization rotation in a ferroelectric superlattice. 2012 , 109, 167601	42
1129	Structure of singly terminated polar DyScO ₃ (110) surfaces. 2012 , 85,	14
1128	Epitaxial thin films of ATiO(3-x)H(x) (A = Ba, Sr, Ca) with metallic conductivity. 2012 , 134, 8782-5	79
1127	Mechanically-induced resistive switching in ferroelectric tunnel junctions. 2012 , 12, 6289-92	48
1126	Extremely high tunability and low loss in nanoscaffold ferroelectric films. 2012 , 12, 4311-7	58
1125	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO ₃ thin films. 2012 , 24, 162202	53
1124	An electromechanical atomic-scale finite element method for simulating evolutions of ferroelectric nanodomains. 2012 , 60, 1383-1399	13
1123	Enhanced ferroelectric polarization in tetragonally strained NaNbO ₃ thin film on single crystal Rh substrate. 2012 , 349, 24-26	13

1122	Kinetic Monte Carlo simulation of the wetting layer in Stranski-Krastanov heteroepitaxial growth. 2012 , 60, 176-180	14
1121	Intrinsic dielectric frequency dependent spectrum of a single domain tetragonal BaTiO ₃ . 2012 , 112, 014108	24
1120	Highly polarized single-c-domain single-crystal Pb(Mn,Nb)O ₃ -PZT thin films. 2012 , 59, 6-13	21
1119	Nanoscale characterization of emergent phenomena in multiferroics. 2012 , 16, 216-226	14
1118	Mechanical writing of ferroelectric polarization. <i>Science</i> , 2012 , 336, 59-61	33-3 521
1117	Insulators containing CuCl ₄ X ₂ (X=H ₂ O, NH ₃) units: Origin of the orthorhombic distortion observed only for CuCl ₄ (H ₂ O) ₂ . 2012 , 85,	15
1116	Solid-state memories based on ferroelectric tunnel junctions. 2011 , 7, 101-4	434
1115	Thermally activated polarization dynamics under the effects of lattice mismatch strain and external stress in ferroelectric film. 2012 , 112, 014112	6
1114	The adsorption-controlled growth of LuFe ₂ O ₄ by molecular-beam epitaxy. 2012 , 101, 132907	32
1113	X-PEEM study of antiferromagnetic domain patterns in LaFeO ₃ thin films and embedded nanostructures. 2012 , 185, 381-388	13
1112	Stress tensor dependence of the polarized Raman spectrum of tetragonal barium titanate. 2012 , 111, 013504	12
1111	Complex GdSc _{1-x} In _x O ₃ Oxides: Synthesis and Structure Driven Tunable Electrical Properties. 2012 , 24, 2186-2196	36
1110	Microstructures and optical properties of solgel derived Ba _{0.9} Sr _{0.1} TiO ₃ thin films formed by different annealing process. 2012 , 27, 1020-1023	1
1109	Electric field-induced tetragonal to orthorhombic phase transitions in [110] _c -oriented BaTiO ₃ single crystals. 2012 , 101, 232904	24
1108	Effect of stress state on the domain configuration and switching behavior in ferroelectric thin films. 2012 , 2, 11901	4
1107	Recent Advances in Functional Testing of Ferroelectric Nanostructures. 2012 , 433, 88-106	5
1106	Antiferromagnetic transitions in tetragonal-like BiFeO ₃ . 2012 , 85,	53
1105	Flexoelectric rectification of charge transport in strain-graded dielectrics. 2012 , 12, 6436-40	43

1104	High-precision absolute lattice parameter determination of SrTiO ₃ , DyScO ₃ and NdGaO ₃ single crystals. 2012 , 68, 8-14	80
1103	Phase-controlled epitaxial growth of iron oxide thin films on MgO(001) and LaAlO ₃ (001) substrates. 2012 , 6, 89-91	2
1102	Ferroelastic Materials. 2012 , 42, 265-283	227
1101	A comparative Raman study of 0.65(PbMg _{1/3} Nb _{2/3} O ₃) -0.35(PbTiO ₃) single crystal and thin film. 2012 , 85, 1	9
1100	Electric modulation of magnetization at the BaTiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ interfaces. 2012 , 100, 232904	107
1099	Incipient Ferroelectricity in Al-Doped HfO ₂ Thin Films. 2012 , 22, 2412-2417	477
1098	The Poisson Ratio in CoFe ₂ O ₄ Spinel Thin Films. 2012 , 22, 4344-4351	59
1097	Ferroelastic Strain Induced Antiferroelectric-Ferroelectric Phase Transformation in Multilayer Thin Film Structures. 2012 , 22, 4159-4164	15
1096	Structure, physical properties, and applications of SrRuO ₃ thin films. 2012 , 84, 253-298	439
1095	Phase-field simulations of thickness-dependent domain stability in PbTiO ₃ thin films. 2012 , 60, 3296-3301	15
1094	Effect of pore size on ferroelectric properties of multiferroic BiFeO ₃ films prepared on porous silicon. 2012 , 12, 451-455	10
1093	Impact of the crystallographic structure of epitaxially grown strained sodium bismuth titanate thin films on local piezo- and ferroelectric properties. 2012 , 47, 2056-2061	5
1092	Modulations in structural and ferroelectric properties due to tensile strain in BiFeO ₃ films on MgAl ₂ O ₄ substrates induced by thermal-expansion. 2012 , 177, 685-688	2
1091	Room temperature ferroelectricity of tetragonally strained SrTiO ₃ thin films on single crystal Rh substrates. 2012 , 152, 1256-1258	11
1090	Molecular beam epitaxy growth of BaTiO ₃ thin films and crucial impact of oxygen content conditions on the electrical characteristics. 2012 , 520, 4595-4599	26
1089	Electrical properties of BaTiO ₃ based ferroelectric capacitors grown on oxide sacrificial layers for micro-cantilevers applications. 2012 , 520, 3071-3078	6
1088	Microstructure and ferroelectric properties of epitaxial BaTiO ₃ /SrRuO ₃ /SrTiO ₃ (001) films grown by pulsed laser deposition under high oxygen pressure. 2012 , 520, 2785-2788	14
1087	Enhancement of ferroelectric polarization stability by interface engineering. 2012 , 24, 1209-16	108

1086	Epitaxial ferroelectric heterostructures fabricated by selective area epitaxy of SrRuO ₃ using an MgO mask. 2012 , 24, 1610-5	58
1085	Epitaxial-Strain Effects on Electronic Structure and Magnetic Properties of Hexagonal YMnO ₃ Thin Films Studied by Femtosecond Spectroscopy. 2013 , 26, 801-807	7
1084	In-plane structural order of domain engineered La _{0.7} Sr _{0.3} MnO ₃ thin films. 2013 , 93, 1549-1562	7
1083	Photoinduced stabilization and enhancement of the ferroelectric polarization in Ba _{0.1} Sr _{0.9} TiO ₃ /La _{0.7} Ca(Sr) _{0.3} MnO ₃ thin film heterostructures. 2013 , 88,	14
1082	Block copolymer/ferroelectric nanoparticle nanocomposites. 2013 , 5, 8695-702	47
1081	Terahertz-infrared spectra of the rare-earth scandate DyScO ₃ single crystal. 2013 , 114, 024102	13
1080	The direct magnetoelectric effect in ferroelectric-ferromagnetic epitaxial heterostructures. 2013 , 5, 8037-44	39
1079	Thickness-Dependent Structure-Property Relationships in Strained (110) SrRuO ₃ Thin Films. 2013 , 23, 1129-1136	47
1078	Giant electrocaloric effect of highly (1 0 0)-oriented 0.68PbMg _{1/3} Nb _{2/3} O ₃ ·0.32PbTiO ₃ thin film. 2013 , 93, 346-355	27
1077	Strain-controlled oxygen vacancy formation and ordering in CaMnO ₃ . 2013 , 88,	250
1076	Full field electron spectromicroscopy applied to ferroelectric materials. 2013 , 113, 187217	37
1075	Effect of out-of-plane misfit strain on phase diagrams and ferroelectric properties of ferroelectric films in vertical nanocomposite structures. 2013 , 113, 155-160	13
1074	Electron-spin-resonance spectra and ferroelectricity of BaTi _{1-x} FexO ₃ . 2013 , 62, 2128-2132	3
1073	Controlling tetragonality and crystalline orientation in BaTiO ₃ nano-layers grown on Si. 2013 , 24, 285701	38
1072	Electronic and electrical properties of functional interfaces studied by hard X-ray photoemission. 2013 , 190, 302-308	7
1071	Engineering domain structures in nanoscale magnetic thin films via strain. 2013 , 114, 164303	14
1070	Structural Modification and Domain Structure in a BaTiO ₃ Film on (110) SrTiO ₃ . 2013 , 6, 015803	11
1069	Landau expansion parameters for BaTiO ₃ . 2013 , 114, 224106	34

1068	In-situ x-ray diffraction study of the growth of highly strained epitaxial BaTiO ₃ thin films. 2013 , 103, 242904	21
1067	Strain relaxation in epitaxial SrRuO ₃ thin films on LaAlO ₃ substrates. 2013 , 103, 141901	9
1066	Tunable oxygen vacancy configuration by strain engineering in perovskite ferroelectrics from first-principles study. 2013 , 103, 142911	18
1065	Strong magnetoelectric coupling in multiferroic Co/BaTiO ₃ thin films. 2013 , 88,	58
1064	Retention of resistance states in ferroelectric tunnel memristors. 2013 , 103, 142908	24
1063	Flexoelectric nano-generator: Materials, structures and devices. 2013 , 2, 1079-1092	198
1062	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. 2013 , 61, 2783-2792	132
1061	Oxygen 1s excitation and tetragonal distortion from core-hole effect in BaTiO ₃ . 2013 , 88,	13
1060	Derivation of the Landau-Ginzburg Expansion Coefficients. 2013 , 321-375	1
1059	Nanoscale flexoelectricity. 2013 , 25, 946-74	273
1058	In situ preparation of high dielectric constant, low-loss ferroelectric BaTiO ₃ films on Si at 500 °C. 2013 , 270, 319-323	22
1057	Room temperature ferroelectricity of YCrO ₃ thin films on Rh single crystals. 2013 , 375, 53-56	17
1056	Effects of oxygen vacancy on the electronic structure and multiferroics in sol-gel derived Pb(0.8)Co(0.2)TiO ₃ thin films. 2013 , 42, 10358-64	27
1055	Strong oxygen pressure dependence of ferroelectricity in BaTiO ₃ /SrRuO ₃ /SrTiO ₃ epitaxial heterostructures. 2013 , 114, 124101	76
1054	Strain evolution in non-stoichiometric heteroepitaxial thin-film perovskites. 2013 , 1, 8052	28
1053	Uniaxial strain-induced ferroelectric phase with a giant axial ratio in a (110) BiFeO ₃ thin film. 2013 , 87,	22
1052	Low dimensional fabrication of giant dielectric CaCu ₃ Ti ₄ O ₁₂ through soft e-beam lithography. 2013 , 547, 147-151	12
1051	Magnetostriction in epitaxial SrTi(1-x)Fe(x)O(3- δ) perovskite films with x = 0.13 and 0.35. 2013 , 25, 026002	14

1050	Preparation of nanocrystalline BiFeO ₃ and kinetics of thermal process of precursor. 2013 , 111, 1057-1065	11
1049	Epitaxial systems combining oxides and semiconductors. 2013 , 451-475	5
1048	Polar phonon anomalies in single-crystalline TbScO ₃ . 2013 , 86, 206-216	16
1047	Phase stabilization in plasma sprayed BaTiO ₃ . 2013 , 39, 5039-5048	19
1046	Mechanoelectric response of lead titanate nanorod array prepared by electrochemical approach. 2013 , 88, 94-99	3
1045	Electron transport properties of composite ferroelectrics. 2013 , 104, 47004	5
1044	Chemical solution deposition of epitaxial metal-oxide nanocomposite thin films. 2013 , 13, 85-101	17
1043	Influence of fabrication conditions on the ferroelectric polarization of barium titanate thin filmsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. 2013 , 1, 149-154	5
1042	Structural, ferroelectric, electronic and transport properties of BaTiO ₃ /Pt heterostructures grown on MgO(0 0 1). 2013 , 109, 227-231	6
1041	Magnetic inhomogeneity in a multiferroic EuTiO ₃ thin film. 2013 , 87,	16
1040	Polarization relaxation kinetics in ultrathin ferroelectric capacitors. 2013 , 102, 092901	19
1039	Monte Carlo Study of Long-Range Interactions of a Ferroelectric Bilayer with Antiferroelectric Interfacial Coupling. 2013 , 26, 3075-3083	6
1038	Coherency strain enhanced dielectric-temperature property of rare-earth doped BaTiO ₃ . 2013 , 102, 112915	11
1037	Temperature-dependent Raman spectroscopy of BaTiO ₃ nanorods synthesized by using a template-assisted sol-gel procedure. 2013 , 44, 412-420	38
1036	Crafting the magnonic and spintronic response of BiFeO ₃ films by epitaxial strain. 2013 , 12, 641-6	256
1035	Magnetoelectric coupling at the EuO/BaTiO ₃ interface. 2013 , 102, 172402	13
1034	Synthesis of highly strained mesostructured SrTiO ₃ /BaTiO ₃ composite films with robust ferroelectricity. 2013 , 19, 4446-50	22
1033	A New Material for High-Temperature Lead-Free Actuators. 2013 , 23, 5881-5886	28

1032	Effect of Substrate on Structure and Multiferrocity of (La, Mn) CoSubstituted BiFeO ₃ Thin Films. 2013 , 96, 2531-2536	6
1031	Color-tunable upconversion luminescence of Yb ³⁺ , Er ³⁺ , and Tm ³⁺ tri-doped ferroelectric BaTiO ₃ materials. 2013 , 113, 184112	50
1030	Role of high-order electromechanical coupling terms in thermodynamics of ferroelectric thin films. 2013 , 87,	16
1029	Ferroelectric-field-effect-enhanced electroresistance in metal/ferroelectric/semiconductor tunnel junctions. 2013 , 12, 617-21	443
1028	Coherent piezoelectric strain transfer to thick epitaxial ferromagnetic films with large lattice mismatch. 2013 , 25, 082205	24
1027	Axially twinned nanodumbbell with a Pt bar and two Rh@Pt balls designed for high catalytic activity. 2013 , 5, 5738-42	24
1026	Effect of composition and strain on the electrical properties of LaNiO ₃ thin films. 2013 , 103, 141902	29
1025	Ferroelectric properties of vertically aligned nanostructured BaTiO ₃ -CeO ₂ thin films and their integration on silicon. 2013 , 5, 12541-7	38
1024	Electronic band alignment and electron transport in Cr/BaTiO ₃ /Pt ferroelectric tunnel junctions. 2013 , 102, 062907	64
1023	Interface electronic structure in a metal/ferroelectric heterostructure under applied bias. 2013 , 87,	35
1022	Giant Flexoelectric Polarization in a Micromachined Ferroelectric Diaphragm. 2013 , 23, 124-132	38
1021	Photo-induced enhancement of ferroelectricity in Ba _{0.1} Sr _{0.9} TiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ heterostructures. 2013 ,	
1020	Guided-wave electro-optic characterization of BaTiO ₃ thin films using the prism coupling technique. 2013 , 38, 1037-9	4
1019	Critical thickness and strain relaxation in molecular beam epitaxy-grown SrTiO ₃ films. 2013 , 103, 212904	30
1018	Growth and Investigation of Nd _{{1-x}Sm_{x}ScO_3} and Sm _{{1-x}Gd_{x}ScO_3} Solid-Solution Single Crystals. 2013 , 124, 295-300	20
1017	Effect of Strain on Barium Titanate Epitaxial Films. 2013 , 547, 139-144	
1016	Device Modeling of Ultrathin Ferroelectric Capacitors. 2013 , 346, 3-8	1
1015	Relaxor ferro- and paraelectricity in anisotropically strained SrTiO ₃ films. 2013 , 113, 164103	13

1014	Comparative study of phase transitions in BaTiO ₃ thin films grown on (001)- and (110)-oriented SrTiO ₃ substrate. 2013 , 25, 132001	20
1013	Strain Induced Anomalous Magnetic Ordering in Epitaxial TbMnO ₃ Thin Films. 2013 , 787, 269-273	
1012	Atomic level observation of octahedral distortions at the perovskite oxide heterointerface. 2013 , 3, 2214	119
1011	Modeling of strain effects on the device behaviors of ferroelectric memory field-effect transistors. 2013 , 28, 082001	
1010	Bending-induced electromechanical coupling and large piezoelectric response in a micromachined diaphragm. 2013 , 3, 3127	13
1009	Realizing strain enhanced dielectric properties in BaTiO ₃ films by liquid phase assisted growth. 2013 , 103, 012904	12
1008	Influence of uniaxial stress on the ferroelectric-to-paraelectric phase change in barium titanate. 2013 , 113, 174103	35
1007	Interface effect on the magnitude and stability of ferroelectric polarization in ultrathin PbTiO ₃ films from first-principles study. 2013 , 114, 034109	6
1006	First principles study of polarization-strain coupling in SrBi ₂ Ta ₂ O ₉ . 2013 , 3, 052134	9
1005	Epitaxial strain effect in tetragonal SrRuO ₃ thin films. 2013 , 113, 173912	45
1004	Coherently strained epitaxial Pb(Zr _{1-x} Ti _x)O ₃ thin films. 2013 , 114, 164104	5
1003	Biaxial strain effect on the electronic and magnetic phase transitions in double perovskite La ₂ FeMnO ₆ : A first-principles study. 2013 , 114, 063713	14
1002	SPONTANEOUS POLARIZATION AND ITS STRAIN EFFECTS FOR ORTHORHOMBIC AND MONOCLINIC Bi ₄ Ti ₃ O ₁₂ : A FIRST PRINCIPLES STUDY. 2013 , 27, 1350138	1
1001	Growth temperature dependence of crystal symmetry in Nb-doped BaTiO ₃ thin films. 2013 , 03, 1350009	4
1000	Stress state analysis of stress engineered BaTiO ₃ thin film by LaNiO ₃ bottom electrode. 2013 , 121, 273-277	
999	Strain engineering induced interfacial self-assembly and intrinsic exchange bias in a manganite perovskite film. 2013 , 3, 2542	72
998	Influence of Ba/Sr ratio in compressively-strained (Ba,Sr)TiO ₃ (001) films on the ferroelectric phase transition. 2013 , 121, 690-692	5
997	ELECTRONIC, STRUCTURAL AND FERROELECTRIC PROPERTIES OF THE Ba ₂ ZrTiO ₆ DOUBLE PEROVSKITE. 2014 , 81, 126	4

- 996 Ferroelectric domain structure of anisotropically strained NaNbO₃ epitaxial thin films. **2014**, 115, 204105 13
- 995 Single-crystalline BaTiO₃ films grown by gas-source molecular beam epitaxy. **2014**, 7, 125502 30
- 994 Strain-induced improvements on piezoelectric and nonlinear optical properties of BiAlO₃. **2014**, 1, 036301 2
- 993 Pulsed laser deposition in Twente: from research tool towards industrial deposition. **2014**, 47, 034006 82
- 992 Giant increase of ferroelectric phase transition temperature in highly strained ferroelectric [BaTiO₃] 0.7/[BaZrO₃] 0.3 superlattice. **2014**, 106, 17004 9
- 991 Asymmetric reversible diode-like resistive switching behaviors in ferroelectric BaTiO₃ thin films. **2014**, 23, 027702 12
- 990 Enhancement of energy storage in epitaxial PbZrO₃ antiferroelectric films using strain engineering. **2014**, 105, 112908 71
- 989 Effects of Interfaces on the Structure and Novel Physical Properties in Epitaxial Multiferroic BiFeO₃ Ultrathin Films. **2014**, 7, 5403-5426 8
- 988 Theoretical Methods of Domain Structures in Ultrathin Ferroelectric Films: A Review. **2014**, 7, 6502-6568 12
- 987 Ultrathin Ferroelectric Films: Growth, Characterization, Physics and Applications. **2014**, 7, 6377-6485 42
- 986 . **2014**,
- 985 High-frequency thermal-electrical cycles for pyroelectric energy conversion. **2014**, 116, 194509 30
- 984 Orientational strain modulation of ferroelectric polarization in multiferroic BiMnO₃. **2014**, 105, 262904 3
- 983 Stress Modulation and Ferroelectric Properties of Nanograined PbTiO₃ Thick Films on the Different Substrates Fabricated by Aerosol Deposition. **2014**, 97, 3872-3876 7
- 982 Spin and phonon anomalies in epitaxial self-assembled CoFe₂O₄-BaTiO₃ multiferroic nanostructures. **2014**, 104, 252905 9
- 981 Using ultrashort optical pulses to couple ferroelectric and ferromagnetic order in an oxide heterostructure. **2014**, 5, 5832 25
- 980 Electric double layer transistors with ferroelectric BaTiO₃ channels. **2014**, 104, 222101 11
- 979 First-principles characterization of the critical thickness for forming metallic states in strained LaAlO₃/SrTiO₃(001) heterostructure. **2014**, 6, 22351-8 33

978	Monoclinic phases arising across thermal inter-ferroelectric phase transitions. 2014 , 90,	21
977	Piezoelectric enhancement of (PbTiO ₃) _m /(BaTiO ₃) _n ferroelectric superlattices through domain engineering. 2014 , 90,	7
976	Impact of thermal stress on the piezoelectric and dielectric properties of PbTiO ₃ thick films on various substrates. 2014 , 116, 054103	6
975	Various evidences for the unusual polarization behaviors in epitaxially strained (111) BaTiO ₃ . 2014 , 115, 054105	14
974	Chemical preparation of ferroelectric mesoporous barium titanate thin films: drastic enhancement of Curie temperature induced by mesopore-derived strain. 2014 , 20, 11283-6	12
973	Ferroelectric tunnel junctions with graphene electrodes. 2014 , 5, 5518	85
972	An epitaxial ferroelectric tunnel junction on silicon. 2014 , 26, 7185-9	55
971	Crafting the strain state in epitaxial thin films: A case study of CoFe ₂ O ₄ films on Pb(Mg,Nb)O ₃ /PbTiO ₃ . 2014 , 90,	18
970	First-principles study of PbTiO ₃ under uniaxial strains and stresses. 2014 , 90,	13
969	Interrelation between Structure & Magnetic Properties in La _{0.5} Sr _{0.5} CoO ₃ . 2014 , 1, 1400203	18
968	Ferroelectric domain structure of NaNbO ₃ epitaxial thin films grown on (110) DyScO ₃ substrates. 2014 , 8, 522-526	8
967	Compositional dependence of Pb(Mg _{1/3} ,Nb _{2/3})O ₃ /PbTiO ₃ piezoelectric thin films by combinatorial sputtering. 2014 , 53, 09PA06	7
966	Dielectric Studies of Thiourea, S(NH ₂) ₂ , Embedded into Molecular Sieves. 2014 , 471, 109-117	5
965	Growth of ZnSnO ₃ Thin Films on c-Al ₂ O ₃ (0001) Substrate by Pulsed Laser Deposition. 2014 , 27, 297-302	1
964	Ferroelectric enhancement of La-doped BaTiO ₃ thin films using SrTiO ₃ buffer layer. 2014 , 551, 127-130	15
963	Atomic-Scale Visualization of Polarization Pinning and Relaxation at Coherent BiFeO ₃ /LaAlO ₃ Interfaces. 2014 , 24, 793-799	31
962	Elastic strain engineering of ferroic oxides. 2014 , 39, 118-130	309
961	Two-dimensional metamaterials for epitaxial heterostructures. 2014 , 18, 46-52	2

960	Multiferroic and magnetoelectric properties of nanostructured BaFe _{0.01} Ti _{0.99} O ₃ thin films obtained under polyethylene glycol conditions. 2014 , 178, 11-15	11
959	Structural characterisation of BaTiO ₃ thin films deposited on SrRuO ₃ /YSZ buffered silicon substrates and silicon microcantilevers. 2014 , 115, 053506	14
958	Effect of mechanical stress on phase stability and polarization states in ferroelectric barium titanate and lead titanate. 2014 , 40, 6647-6654	4
957	Mechanical switching of ferroelectric polarization in ultrathin BaTiO ₃ films: The effects of epitaxial strain. 2014 , 104, 042907	36
956	Giant mechanically-mediated electrocaloric effect in ultrathin ferroelectric capacitors at room temperature. 2014 , 104, 012907	34
955	Control of Structural Distortions in Transition-Metal Oxide Films through Oxygen Displacement at the Heterointerface. 2014 , 24, 5177-5184	40
954	Impact of local strain on Ti-L _{2,3} electron energy-loss near-edge structures of BaTiO ₃ : first-principles multiplet study. 2014 , 63, 249-54	9
953	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. 2014 , 18, 6-18	87
952	Competition and cooperation between antiferrodistortive and ferroelectric instabilities in the model perovskite SrTiO ₃ . 2014 , 26, 122203	68
951	Application of a sensitive catalytic reactor to the study of CO oxidation over SrTiO ₃ (100) and BaTiO ₃ /SrTiO ₃ (100) ferroelectric surfaces. 2014 , 46, 721-725	7
950	Strain Induced Metastable Phase and Phase Revolution in PbTiO ₃ -CoFe ₂ O ₄ Nanocomposite Film. 2014 , 31, 017701	4
949	Thermotropic phase boundaries in classic ferroelectrics. 2014 , 5, 3172	105
948	Phase stability, electronic structure and optical properties of BiInO ₃ under strain. 2014 , 47, 055302	3
947	First-principles theory, coarse-grained models, and simulations of ferroelectrics. 2014 , 47, 3242-9	8
946	BiFeO ₃ epitaxial thin films and devices: past, present and future. 2014 , 26, 473201	173
945	Tuning magnetic coupling in SrIrO ₄ thin films with epitaxial strain. 2014 , 112, 147201	47
944	Sub-critical field domain reversal in epitaxial ferroelectric films. 2014 , 116, 124109	7
943	Giant room-temperature elastocaloric effect in ferroelectric ultrathin films. 2014 , 26, 6132-7	78

942	Ferroelectric and ferromagnetic properties in BaTiO ₃ thin films on Si (100). 2014 , 116, 094103	23
941	Artificial chemical and magnetic structure at the domain walls of an epitaxial oxide. 2014 , 515, 379-83	128
940	Electrocaloric effect in BaTiO ₃ : A first-principles-based study on the effect of misfit strain. 2014 , 104, 212902	32
939	Substrate-induced anion rearrangement in epitaxial thin films of LaSrCoO _{4-x} H _x . 2014 , 16, 9669-9674	17
938	Domain evolution of tetragonal Pb(Zr _x Ti _{1-x})O ₃ piezoelectric thin films on SrTiO ₃ (100) surfaces: combined effects of misfit strain and Zr/Ti ratio. 2014 , 2, 5836-5841	23
937	The effects of strain relaxation on the dielectric properties of epitaxial ferroelectric Pb(Zr _{0.2} Ti _{0.8})TiO ₃ thin films. 2014 , 105, 022903	11
936	Giant electrode effect on tunnelling electroresistance in ferroelectric tunnel junctions. 2014 , 5, 5414	104
935	Tensile strain induced switching of magnetic states in NbSe ₂ and NbS ₂ single layers. 2014 , 6, 12929-33	48
934	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. 2014 , 115, 054103	28
933	Phase transition, microstructure, and electrical properties of Ca, Zr, and Sn-modified BaTiO ₃ lead-free ceramics. 2014 , 615, 969-974	20
932	Effects of A-site disorder in the properties of A ₂ CoMnO ₆ (A = La, Tb). 2014 , 26, 386001	13
931	The structural and in-plane dielectric/ferroelectric properties of the epitaxial (Ba, Sr)(Zr, Ti)O ₃ thin films. 2014 , 115, 234102	9
930	Interesting Evidence for Template-Induced Ferroelectric Behavior in Ultra-Thin Titanium Dioxide Films Grown on (110) Neodymium Gallium Oxide Substrates. 2014 , 24, 2844-2851	14
929	Fluorination of epitaxial oxides: synthesis of perovskite oxyfluoride thin films. 2014 , 136, 2224-7	54
928	Understanding order in compositionally graded ferroelectrics: Flexoelectricity, gradient, and depolarization field effects. 2014 , 89,	18
927	Heteroepitaxy of tetragonal BiFeO ₃ on hexagonal sapphire(0001). 2014 , 6, 2639-46	13
926	Influences of Epitaxial Strain and Volume on BaTiO ₃ : Ab Initio Total Energy Calculation. 2014 , 155, 91-99	3
925	Interface-induced nonswitchable domains in ferroelectric thin films. 2014 , 5, 4693	88

924	(001) SrTiO ₃ (001) MgO interface and oxygen-vacancy stability from first-principles calculations. 2014 , 6, 15536-41	9
923	Enhancement of ferroelectric Curie temperature in BaTiO ₃ films via strain-induced defect dipole alignment. 2014 , 26, 6341-7	101
922	Charge transfer induced magnetism in sol-gel derived nanocrystalline BaTiO. 2014 , 187, 59-63	18
921	Strain engineering of perovskite thin films using a single substrate. 2014 , 26, 292201	16
920	Control of ferroelectricity and magnetism in multi-ferroic BiFeO ₃ by epitaxial strain. 2014 , 372, 20120438	28
919	Crystal structure and local piezoelectric properties of strain-controlled (001) BiFeO ₃ epitaxial thin films. 2014 , 550, 738-741	7
918	Preparation of lanthanum strontium cobalt oxide electrode on a Si wafer for stress engineering of ferroelectric thin films. 2014 , 122, 63-66	4
917	Abnormal thermal conductivity of [110]-oriented BaTiO ₃ single crystal. 2014 , 8, 279-282	3
916	Tailoring the physical properties of (Ba, Ca)(Ti, Zr)O ₃ - xSm ₂ O ₃ nanocomposite films. 2014 ,	
915	Multifunctional, self-assembled oxide nanocomposite thin films and devices. 2015 , 40, 736-745	62
914	Electrostatic engineering of strained ferroelectric perovskites from first principles. 2015 , 92,	25
913	Strain Doping: Reversible Single-Axis Control of a Complex Oxide Lattice via Helium Implantation. 2015 , 114, 256801	64
912	Nanomechanics of flexoelectric switching. 2015 , 92,	41
911	Multifunctional heterostructures integrated on Si (100). 2015 , 4, 50-70	4
910	Strain induced room temperature ferromagnetism in epitaxial magnesium oxide thin films. 2015 , 118, 165309	7
909	Functional ferroelectric tunnel junctions on silicon. 2015 , 5, 12576	47
908	Polarization and leakage current properties of high quality bismuth sodium titanate single crystals and polycrystalline ceramics. 2015 , 123, 9-16	5
907	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO ₃) _{1-x} :(Sm ₂ O ₃) _x Thin Films. 2015 , 5, 11335	20

906	Orientation control of epitaxial tetragonal Pb(ZrxTi1-x)O3 thin films grown on (100)KTaO3 substrates by tuning the Zr/(Zr + Ti) ratio. 2015 , 107, 022902	10
905	Abnormal cubic-tetragonal phase transition of barium strontium titanate nanoparticles studied by in situ Raman spectroscopy and transmission electron microscopy heating experiments. 2015 , 107, 182902	8
904	Crystallization engineering as a route to epitaxial strain control. 2015 , 3, 106102	10
903	Effects of polarization of polar semiconductor on electrical properties of poly(vinylidene fluoride-trifluoroethylene)/ZnO heterostructures. 2015 , 117, 234101	1
902	Ab initio phase diagram of BaTiO3 under epitaxial strain revisited. 2015 , 107, 102901	12
901	Contact resistance to SrRuO3 and La0.67Sr0.33MnO3 epitaxial films. 2015 , 107, 242905	8
900	Characterization of the insulator barrier and the superconducting transition temperature in GdBa2Cu3O7/BaTiO3 bilayers for application in tunnel junctions. 2015 , 118, 045308	5
899	Stress induced enhanced polarization in multilayer BiFeO3/BaTiO3 structure with improved energy storage properties. 2015 , 5, 107216	19
898	Influence of the Strain on Dielectric and Ferroelectric Properties of 0.5BaZr0.2Ti0.8O3/0.5Ba0.7Ca0.3TiO3. 2015 , 98, 2823-2828	8
897	Direct Observation of Thickness Dependence of Ferroelectricity in Freestanding BaTiO3 Thin Film. 2015 , 98, 2710-2712	12
896	Polarized Raman scattering study of PSN single crystals and epitaxial thin films. 2015 , 05, 1550013	2
895	Dielectric Properties of Pure and Gd-Doped HfO2 Ceramics. 2015 , 98, 3918-3924	6
894	Anti-Ferroelectric Ceramics for High Energy Density Capacitors. 2015 , 8, 8009-8031	194
893	Strain-Dependence of the Structure and Ferroic Properties of Epitaxial NiTiO3 Thin Films Grown on Different Substrates. 2015 , 2015, 1-9	7
892	Tuning of near-infrared luminescence of SrTiO3:Ni2+ thin films grown on piezoelectric PMN-PT via strain engineering. 2014 , 4, 5724	42
891	Strain-mediated electric-field control of exchange bias in a Co90Fe10/BiFeO3/SrRuO3/PMN-PT heterostructure. 2015 , 5, 8905	46
890	Relaxation of ferroelectric thin films of diisopropylammonium perchlorate. 2015 , 17, 4029-33	11
889	Non-ferroelectric nature of the conductance hysteresis in CH3NH3PbI3 perovskite-based photovoltaic devices. 2015 , 106, 173502	173

888	Multiferroic oxide thin films and heterostructures. 2015 , 2, 021304	112
887	The effects of strain on crystal structure and properties during epitaxial growth of oxides. 2015 , 175-207	0
886	Surfactant-free synthesis of SrTiO ₃ hierarchical structures in ethanol/water mixed solvent at room temperature. 2015 , 17, 6895-6900	5
885	Artificial design for new ferroelectrics using nanosheet-architectonics concept. 2015 , 26, 244001	10
884	First principles study of magnetoelectric coupling in Co ₂ FeAl/BaTiO ₃ tunnel junctions. 2015 , 17, 14986-93	12
883	Absence of low temperature phase transitions and enhancement of ferroelectric transition temperature in highly strained BaTiO ₃ epitaxial films grown on MgO Substrates. 2015 , 117, 134103	12
882	Visible light carrier generation in co-doped epitaxial titanate films. 2015 , 106, 092901	10
881	Multiferroic properties in tetragonal and rhombohedral phase of BiFeO ₃ /BaTiO ₃ heterostructures. 2015 ,	
880	In-situ spectroscopic studies and interfacial engineering on FeSe/oxide heterostructures: Insights on the interfacial superconductivity. 2015 , 24, 117902	4
879	In situ X-ray diffraction and the evolution of polarization during the growth of ferroelectric superlattices. 2015 , 6, 10136	32
878	Influence of top contact noble metals on leakage current properties of epitaxial BaTiO ₃ film capacitors. 2015 , 26, 9962-9969	6
877	Insight into Metalized Interfaces in Nano Devices by Surface Analytical Techniques. 2015 , 7, 27351-6	2
876	The effect of in-plane strain on the electronic properties of LaAlO ₃ /SrTiO ₃ interface. 2015 , 99, 57-61	13
875	Understanding ferroelectricity in layered perovskites: new ideas and insights from theory and experiments. 2015 , 44, 10543-58	159
874	Tunable enhancement of ferroelectric properties in Ba _x Sr _{1-x} TiO ₃ /La _{0.7} Sr _{0.3} MgO ₃ heterostructures observed by means of second harmonic generation technique. 2015 , 206, 51-55	2
873	High energy-storage performance of 0.9Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.1PbTiO ₃ relaxor ferroelectric thin films prepared by RF magnetron sputtering. 2015 , 65, 73-79	44
872	Tuning and optimizing properties of ferroelectric films grown on a single substrate: A first-principles-based study. 2015 , 91,	3
871	Strain-induced significant increase in metal-insulator transition temperature in oxygen-deficient Fe oxide epitaxial thin films. 2015 , 5, 7894	17

870	Influence of epitaxial strain on elastocaloric effect in ferroelectric thin films. 2015 , 106, 032901	17
869	Mechanical Origin of the Structural Phase Transition in Methylammonium Lead Iodide CH ₃ NH ₃ PbI ₃ . 2015 , 6, 681-5	50
868	Ferroelectric 180° domain wall motion controlled by biaxial strain. 2015 , 27, 1615-8	33
867	Intrinsic interfacial phenomena in manganite heterostructures. 2015 , 27, 123001	22
866	Thin Films as Material Engineering. 2015 , 28, 1665-1680	3
865	Latent instabilities in metallic LaNiO ₃ films by strain control of Fermi-surface topology. 2015 , 5, 8746	32
864	Strain-dependence of the structure and ferroic properties of epitaxial Ni _{1-x} Ti _x O ₃ thin films grown on sapphire substrates. 2015 , 578, 113-123	7
863	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. 2015 , 9, 7164-74	131
862	Ferroelectric Mesocrystalline BaTiO ₃ /SrTiO ₃ Nanocomposites with Enhanced Dielectric and Piezoelectric Responses. 2015 , 27, 4983-4994	46
861	Effect of epitaxial strain on tunneling electroresistance in ferroelectric tunnel junctions. 2015 , 26, 305202	17
860	Perovskites for photovoltaics: a combined review of organic/inorganic halide perovskites and ferroelectric oxide perovskites. 2015 , 3, 18809-18828	186
859	Anharmonic lattice interactions in improper ferroelectrics for multiferroic design. 2015 , 27, 283202	44
858	Controlling Resistance Switching Polarities of Epitaxial BaTiO ₃ Films by Mediation of Ferroelectricity and Oxygen Vacancies. 2015 , 1, 1500069	43
857	Compositional dependence of Ba(Zr _{0.2} Ti _{0.8})O ₃ (Ba _{0.7} Ca _{0.3})TiO ₃ piezoelectric thin films prepared by combinatorial sputtering. 2015 , 588, 34-38	10
856	Strain effects in epitaxial FeV ₂ O ₄ thin films fabricated by pulsed laser deposition. 2015 , 419, 102-107	4
855	Antiferromagnetic long-range spin ordering in Fe- and NiFe ₂ -doped BaTiO ₃ multiferroic layers. 2015 , 91,	10
854	Measurement of Dielectric Properties of Ultrafine BaTiO ₃ Using an Organic/Inorganic Composite Method. 2015 , 44, 2300-2307	
853	Mn doping effect on the ferroelectric domain structure of BaTiO ₃ thin films. 2015 , 11, 232-235	3

852	Phase control of a perovskite transition-metal oxide through oxygen displacement at the heterointerface. 2015 , 44, 10594-607		10
851	Large piezoelectric response of BiFeO ₃ /BaTiO ₃ polycrystalline films induced by the low-symmetry phase. 2015 , 17, 11593-7		23
850	Ferroelectrics. Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO ₃ films. <i>Science</i> , 2015 , 348, 547-51	33-3	308
849	Ferroelectric control of spin-transfer torque in multiferroic tunnel junctions. 2015 , 91,		6
848	Why Sn doping significantly enhances the dielectric properties of Ba(Ti _{1-x} Sn _x)O ₃ . 2015 , 5, 8606		65
847	In situ stress measurements during pulsed laser deposition of BaTiO ₃ and SrTiO ₃ atomic layers on Pt(001). 2015 , 335, 44-49		11
846	Ferroelectric domain structures of epitaxial CaBi ₂ Nb ₂ O ₉ thin films on single crystalline Nb doped (1 0 0) SrTiO ₃ substrates. 2015 , 422, 20-23		11
845	Stress engineering for the design of morphotropic phase boundary in piezoelectric material. 2015 , 585, 91-94		4
844	Tuning bipolar resistive switching by forming defect dipoles in A-site-deficient perovskite calcium titanate thin films. 2015 , 8, 045504		12
843	Comparison between the ferroelectric/electric properties of the PbZr _{0.52} Ti _{0.48} O ₃ films grown on Si (100) and on STO (100) substrates. 2015 , 50, 3883-3894		9
842	High-T _c /high-coupling relaxed PZT-based single crystal thin films. 2015 , 117, 124106		10
841	Entropy-stabilized oxides. 2015 , 6, 8485		802
840	Thickness dependent charge transport in ferroelectric BaTiO ₃ heterojunctions. 2015 , 118, 114103		13
839	Epitaxially strained BaTiO ₃ thin films on LaAlO ₃ substrates with La _{0.5} Sr _{0.5} MnO ₃ electrodes: Enhanced ferroelectric property and domain structure. 2015 , 161, 168-171		6
838	Scanning probe microscopy (SPM) of epitaxial oxide thin films. 2015 , 295-328		0
837	Strain tuning of ferroelectric polarization in hybrid organic inorganic perovskite compounds. 2015 , 6, 4553-9		55
836	Negative-pressure-induced enhancement in a freestanding ferroelectric. 2015 , 14, 985-90		61
835	Interfacial structure in epitaxial perovskite oxides on (001) Ge crystal. 2015 , 106, 032903		8

834	Cation ordering and effect of biaxial strain in double perovskite CsRbCaZnCl ₆ . 2015 , 117, 114103		7
833	Unusual enhancement of multiferroicity in YMn ₂ Ti _x O ₅ due to ferroelectrically active TiO ₆ oxygen octahedral units. 2015 , 117, 17D917		
832	Giant Switchable Rashba Effect in Oxide Heterostructures. 2015 , 2, 1400445		23
831	Epitaxial Stabilization of the Perovskite Phase in (Sr(1-x)Ba(x))MnO ₃ Thin Films. 2015 , 7, 23967-77		19
830	A chemical method for stabilizing a new series of solid solution Pr _{1-x} Ce _x ScO ₃ (0.0 ≤ x ≤ 1.0) systems. 2015 , 44, 16929-36		5
829	Impact of biaxial compressive strain on the heterostructures of paraelectrics KTaO ₃ and SrTiO ₃ . 2015 , 5, 057147		3
828	Effective piezoelectric coefficient measurement of BaTiO ₃ thin films using the X-ray diffraction technique under electric field available in a standard laboratory. 2015 , 351, 480-486		13
827	Optimization and improvement of TIPS-pentacene transistors (OTFT) with UV-zone and chemical treatments using an all-step solution process. 2015 , 15, 1238-1244		14
826	Charge mediated room temperature magnetoelectric coupling in Zn _{1-x} Sm _x O/BaTiO ₃ bilayer thin film. 2015 , 26, 315704		8
825	Tailoring the photocurrent in BaTiO ₃ /Nb:SrTiO ₃ photoanodes by controlled ferroelectric polarization. 2015 , 107, 103901		26
824	Deterministic generation of multiparticle entanglement by quantum Zeno dynamics. <i>Science</i> , 2015 , 349, 1317-21	33.3	62
823	Emergence of room-temperature ferroelectricity at reduced dimensions. <i>Science</i> , 2015 , 349, 1314-7	33.3	198
822	Strain Tuning of Tin Halide and Lead Halide Perovskites: A First-Principles Atomic and Electronic Structure Study. 2015 , 119, 22832-22837		99
821	Structure and ferroelectric properties of high T _c Bi(Me)O ₃ -PbTiO ₃ single crystal thin films. 2015 ,		1
820	Orientation-controlled BaTiO ₃ thin films fabricated by chemical solution deposition. 2015 , 5, 97563-97567		8
819	Phase field simulations of the poling behavior of BaTiO ₃ nano-scale thin films with SrRuO ₃ and Au electrodes. 2015 , 49, 455-466		10
818	External strain effect on the electronic and mechanical properties of the superconductor Nb ₂ InC. 2015 , 78, 28-34		6
817	Novel multiferroicity in GdMnO ₃ thin films with self-assembled nano-twinned domains. 2014 , 4, 7019		28

816	Possible ferroelectricity in perovskite oxynitride SrTaO ₂ N epitaxial thin films. 2015 , 4,	86
815	Structural instability of epitaxial (001) BiFeO ₃ thin films under tensile strain. 2014 , 4, 4631	21
814	Direct Observation and Engineering of Oxygen Coordination Environments in Oxide Heterostructures. 2016 , 63, 829-834	
813	MC Type Phase Structure and Temperature-Induced MC-C Transition in the As-Grown PMN-0.36PT Single Crystal. 2016 , 99, 2706-2712	6
812	Universal Fabrication of 2D Electron Systems in Functional Oxides. 2016 , 28, 1976-80	102
811	Local Probing of Ferroelectric and Ferroelastic Switching through Stress-Mediated Piezoelectric Spectroscopy. 2016 , 3, 1500470	15
810	Response of Methylammonium Lead Iodide to External Stimuli and Caloric Effects from Molecular Dynamics Simulations. 2016 , 120, 17274-17281	26
809	Ferroelectric domains in epitaxial PbxSr _{1-x} TiO ₃ thin films investigated using X-ray diffraction and piezoresponse force microscopy. 2016 , 4, 086105	10
808	Piezoelectric and Triboelectric Dual Effects in Mechanical-Energy Harvesting Using BaTiO/Polydimethylsiloxane Composite Film. 2016 , 8, 34335-34341	136
807	Tuning the metal-insulator transition in d1 and d2 perovskites by epitaxial strain: A first-principles-based study. 2016 , 94,	24
806	Evolution of structural distortion in BiFeO thin films probed by second-harmonic generation. 2016 , 6, 38268	19
805	Generation of microwave oscillations in a current-driven magnetic nanocontact with ferroelectric and multiferroic junction. 2016 ,	
804	Ferroelectrics. 2016 , 1-26	1
803	Double-layer buffer template to grow commensurate epitaxial BaBiO ₃ thin films. 2016 , 4, 126106	13
802	Scaling of electroresistance effect in fully integrated ferroelectric tunnel junctions. 2016 , 108, 152904	20
801	Spin-orbit and exchange effects in the 2DEG of BiAlO ₃ -based oxide heterostructures. 2016 , 115, 17006	2
800	Orbital configuration in CaTiO ₃ films on NdGaO ₃ . 2016 , 109, 152905	3
799	Surface- and strain-tuning of the optical dielectric function in epitaxially grown CaMnO ₃ . 2016 , 108, 082902	3

798	Super-crystals in composite ferroelectrics. 2016 , 7, 10674	35
797	A multiferroic on the brink: Uncovering the nuances of strain-induced transitions in BiFeO ₃ . 2016 , 3, 011106	80
796	Multifunctional epitaxial systems on silicon substrates. 2016 , 3, 031301	23
795	Structural and ferroelectric properties of epitaxial BaZr _x Ti _{1-x} O ₃ thin films. 2016 , 49, 495303	5
794	Multiferroic properties of uniaxially compressed orthorhombic HoMnO ₃ thin films. 2016 , 108, 112904	12
793	Ferroelectricity and Self-Polarization in Ultrathin Relaxor Ferroelectric Films. 2016 , 6, 19965	25
792	Crystal structure and polarization hysteresis properties of ferroelectric BaTiO ₃ thin-film capacitors on (Ba,Sr)TiO ₃ -buffered substrates. 2016 , 55, 10TA03	4
791	Phenomenological thermodynamic potentials for bulk and thin-film Ba(Zr _{0.08} Ti _{0.92})O ₃ single crystals. 2016 , 119, 204103	8
790	Controlling the cation distribution and electric polarization with epitaxial strain in Aurivillius-phase Bi ₅ FeTi ₃ O ₁₅ . 2016 , 108, 082903	10
789	First-principles effective Hamiltonian simulation of ABO ₃ -type perovskite ferroelectrics for energy storage application. 2016 , 120, 074106	7
788	Novel Ferroelectric Polymer Memory Coupling Two Identical Thin-Film Transistors. 2016 , 2, 1500206	23
787	Microstructure and local electrical investigation of lead-free La ₂ WO ₆ ferroelectric thin films by piezoresponse force microscopy. 2016 , 617, 76-81	0
786	Manipulating the ferroelectric polarization state of BaTiO ₃ thin films. 2016 , 607, 7-13	6
785	Effects of epitaxial strains on spontaneous polarizations and band gaps of alkaline-earth-metal oxides MO (M = Mg, Ca, Sr, Ba). 2016 , 121, 61-66	8
784	Mixed grains and orientation-dependent piezoelectricity of polycrystalline Nd-substituted Bi ₄ Ti ₃ O ₁₂ thin films. 2016 , 42, 13061-13064	7
783	Overcoming the Fundamental Barrier Thickness Limits of Ferroelectric Tunnel Junctions through BaTiO ₃ /SrTiO ₃ Composite Barriers. 2016 , 16, 3911-8	62
782	New modalities of strain-control of ferroelectric thin films. 2016 , 28, 263001	61
781	Electrically Coupling Multifunctional Oxides to Semiconductors: A Route to Novel Material Functionalities. 2016 , 1, 255-263	

780	Microstructure design for fast oxygen conduction. 2016 , 31, 2-16	19
779	Strain engineering of nonlinear boron phosphate for phase matching in the ultraviolet region: a first-principles study. 2016 , 49, 185103	4
778	Responses of an anisotropic magnetoelastic and layered half-space to internal forces and dislocations. 2016 , 94-95, 206-221	8
777	Magnetic and transport studies of core-shell nanorods based on metallic oxide ferromagnet SrRuO ₃ . 2016 , 89, 336-344	2
776	Exact size control of KTa _{0.5} Nb _{0.5} O ₃ nanoparticles using flexible hydrothermal conditions. 2016 , 122, 1	6
775	Thermal stability and local atomic structure of (Na _{0.5} K _{0.5})NbO ₃ doped BaTiO ₃ ceramics. 2016 , 42, 11739-11742	
774	Unleashing Strain Induced Ferroelectricity in Complex Oxide Thin Films via Precise Stoichiometry Control. 2016 , 26, 7271-7279	27
773	Nanomechanics of Ferroelectric Thin Films and Heterostructures. 2016 , 469-488	
772	Novel Ferroelectric-Gate Field-Effect Thin Film Transistors (FeTFTs): Controlled Polarization-Type FeTFTs. 2016 , 111-138	
771	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. 2016 , 16, 6460-6466	30
770	A surfactant-free route to synthesize Ba _x Sr _{1-x} TiO ₃ nanoparticles at room temperature, their dielectric and microwave absorption properties. 2016 , 59, 609-617	16
769	Crystal Isomers of ScFeO ₃ . 2016 , 16, 5214-5222	20
768	Growth of epitaxial tetragonal (Bi,K)TiO ₃ films and their ferroelectric and piezoelectric properties. 2016 , 55, 10TA13	6
767	Electro-Optically Active Oxides on Silicon for Photonics. 2016 , 455-501	6
766	Circuit performance analysis of negative capacitance FinFETs. 2016 ,	27
765	Strain tunability of the downward effective polarization of mechanically written domains in ferroelectric nanofilms. 2016 , 6, 80946-80954	10
764	Multiscale Materials Modeling for Nanomechanics. 2016 ,	11
763	La Displacement Driven Double-Exchange Like Mediation in Titanium dxy Ferromagnetism at the LaAlO ₃ /SrTiO ₃ . 2016 , 85, 043702	1

762	The diverse electronic properties of C4N3monolayer under biaxial compressive strain: a theoretical study. 2016 , 49, 295301	7
761	Ferroelectricity and Phase Transitions in Monolayer Group-IV Monochalcogenides. 2016 , 117, 097601	309
760	Frontiers in strain-engineered multifunctional ferroic materials. 2016 , 6, 151-166	15
759	Coupling Between Strain and Oxygen Octahedral Distortions in Epitaxially Strained GdScO3/SrTiO3 Heterostructure. 2016 , 99, 3734-3738	3
758	Geometrical lattice engineering of complex oxide heterostructures: a designer approach to emergent quantum states. 2016 , 6, 133-144	13
757	Ferroelectric Coordination Polymers Self-Assembled from Mesogenic Zinc(II) Porphyrin and Dipolar Bridging Ligands. 2016 , 22, 14213-8	5
756	Strain-Controlled Responsiveness of Slave Half-Doped Manganite La0.5Sr0.5MnO3 Layers Inserted in BaTiO3 Ferroelectric Tunnel Junctions. 2016 , 2, 1600368	18
755	Modulating Magnetic Properties by Tailoring In-Plane Domain Structures in Hexagonal YMnO3 Films. 2016 , 8, 25379-85	5
754	Novel Approaches for Genuine Single-Phase Room Temperature Magnetoelectric Multiferroics. 2016 , 789-829	3
753	Synthesis and Properties of Ferroelectric Nanotubes and Nanowires: A Review. 2016 , 200-231	2
752	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. 2016 , 116, 197003	56
751	Reversible Polarization Rotation in Epitaxial Ferroelectric Bilayers. 2016 , 3, 1600444	11
750	Discovery of robust in-plane ferroelectricity in atomic-thick SnTe. <i>Science</i> , 2016 , 353, 274-8	33-3 470
749	Ab initio study of the ferroelectric strain dependence and 180° domain walls in the barium metal fluorides BaMgF4 and BaZnF4. 2016 , 93,	7
748	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Process-Structure-Property Relations. 2016 , 99, 2537-2557	108
747	Frustration of Negative Capacitance in Al2O3/BaTiO3 Bilayer Structure. 2016 , 6, 19039	37
746	Enhanced curie temperature and high heat resistivity of PMnN-PZT monocrystalline thin film on Si. 2016 , 251, 100-107	7
745	Antiferromagnetic and xy ferro-orbital order in insulating SrRuO3 thin films with SrO termination. 2016 , 28, 426004	14

744	Role of scaffold network in controlling strain and functionalities of nanocomposite films. 2016 , 2, e1600245	70
743	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO ₃ . 2016 , 7, 10718	72
742	Tunnel electroresistance through organic ferroelectrics. 2016 , 7, 11502	80
741	Identification of Novel Short BaTiO ₃ -Binding/Nucleating Peptides for Phage-Templated in Situ Synthesis of BaTiO ₃ Polycrystalline Nanowires at Room Temperature. 2016 , 8, 30714-30721	17
740	Nanoscale Origins of Ferroelastic Domain Wall Mobility in Ferroelectric Multilayers. 2016 , 10, 10126-10134	9
739	Part C. 2016 , 461-472	
738	Orientation control of barium titanate films using metal oxide nanosheet layer. 2016 , 55, 10TA15	3
737	Strain-induced insulator-metal transition in ferroelectric BaTiO ₃ (001) surface: First-principles study. 2016 , 25, 077302	1
736	Interface-Induced Polarization in SrTiO ₃ -LaCrO ₃ Superlattices. 2016 , 3, 1500779	24
735	Ba Sr _{1-x} TiO ₃ buffer layers for strain tuning of infinite-layer Sr _{1-x} Ca _x CuO ₂ thin films. 2016 , 612, 8-13	2
734	Strain effect on ferroelectric polarization of epitaxial LuFeO ₃ thin films. 2016 , 122, 1	2
733	Tunable Ferromagnetic Transition Temperature and Vertical Hysteretic Shift in SrRuO ₃ Films Integrated on Si(001). 2016 , 8, 14012-8	13
732	Crystallographic orientation dependence of piezoelectric and dielectric properties of BNT-based thin films. 2016 , 36, 3139-3145	6
731	Enhanced magnetic and ferroelectric properties in Pb(Zr _{0.52} Ti _{0.48})O ₃ /La _{0.7} Ca _{0.3} MnO ₃ bilayers grown on Nb-doped (110) SrTiO ₃ substrate. 2016 , 680, 565-570	7
730	Tuning of magnetic properties for epitaxial Y ₂ NiMnO ₆ thin film: Substrate is crucial. 2016 , 384, 459-465	9
729	Effect of insertion of low leakage polar layer on leakage current and multiferroic properties of BiFeO ₃ /BaTiO ₃ multilayer structure. 2016 , 6, 59150-59154	11
728	Polarization reversal in BaTiO ₃ nanostructures synthesized by microwave-assisted hydrothermal method. 2016 , 667, 268-274	9
727	Infrared optical absorption in low-spin Fe(2+)-doped SrTiO ₃ . 2016 , 28, 035901	4

726	Effects of the Variation of Ferroelectric Properties on Negative Capacitance FET Characteristics. 2016 , 63, 2197-2199	103
725	Visualizing the Path of DNA through Proteins Using DREEM Imaging. 2016 , 61, 315-23	15
724	Polar-Graded Multiferroic SrMnO ₃ Thin Films. 2016 , 16, 2221-7	34
723	Relating Electronic and Geometric Structure of Atomic Layer Deposited BaTiO ₃ to its Electrical Properties. 2016 , 7, 1428-33	16
722	Ferroelectric Domain Structures in Low-Strain BaTiO ₃ . 2016 , 2, 1500214	42
721	Mechanical Control of Individual Superconducting Vortices. 2016 , 16, 1626-30	35
720	Towards enhanced varistor property and lower dielectric loss of CaCu ₃ Ti ₄ O ₁₂ based ceramics. 2016 , 92, 546-551	49
719	Design of noncentrosymmetric perovskites from centric and acentric basic building units. 2016 , 4, 4016-4027	25
718	Imprint Control of BaTiO ₃ Thin Films via Chemically Induced Surface Polarization Pinning. 2016 , 16, 2400-6	42
717	Tuning magnetic anisotropy by interfacially engineering the oxygen coordination environment in a transition metal oxide. 2016 , 15, 432-7	152
716	Structural, optical and conductivity properties of BaTi _{1-x} Ni _x O ₃ . 2016 , 42, 7414-7421	5
715	Low energy consumption spintronics using multiferroic heterostructures. 2016 , 28, 033001	51
714	Tunable dielectric properties induced by optical fields in barium strontium titanate/manganite heterostructures. 2016 , 112, 62-66	22
713	Strain- and correlation-induced half-metallic ferromagnetism in orthorhombic BaFeO. 2016 , 253, 329-334	4
712	Inkjet patterning of in situ sol-gel derived barium titanate thin films. 2016 , 42, 1840-1846	11
711	Low-voltage ferroelectric/paraelectric superlattices as gate materials for field-effect transistors. 2016 , 51, 487-498	6
710	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS ₂ -BaTiO ₃ -SrRuO ₃ Tunnel Junctions. 2017 , 17, 922-927	53
709	Electrically coupling complex oxides to semiconductors: A route to novel material functionalities. 2017 , 32, 249-259	11

708	Ultrafast light-induced symmetry changes in single BaTiO ₃ nanowires. 2017 , 5, 1522-1528	12
707	Strain-Engineered Oxygen Vacancies in CaMnO Thin Films. 2017 , 17, 794-799	64
706	Microstructure and ferroelectricity of BaTiO thin films on Si for integrated photonics. 2017 , 28, 075706	53
705	Tunable pyroelectric properties of barium strontium titanate thin films. 2017 , 29, 185701	2
704	Non-spectroscopic composition measurements of SrTiO ₃ -La _{0.7} Sr _{0.3} MnO ₃ multilayers using scanning convergent beam electron diffraction. 2017 , 110, 063102	21
703	Phase transitions in BaTiO ₃ under uniaxial compressive stress: Experiments and phenomenological analysis. 2017 , 121, 064109	14
702	Tailoring the structure and thermoelectric properties of BaTiO ₃ via Eu substitution. 2017 , 19, 13469-13480	19
701	Crystal engineering for novel functionalities with oxide thin film epitaxy. 2017 , 19, 2144-2162	21
700	First-principles study of the effect of (111) strain on octahedral rotations and structural phases of LaAlO ₃ . 2017 , 95,	14
699	Microstructure of the Nanostructured Oxide Composite Thin Films and Its Functional Properties. 2017 , 397-427	
698	Strain effects on oxygen vacancy energetics in KTaO. 2017 , 19, 6264-6273	27
697	A brief review on perovskite multiferroics. 2017 , 507, 69-85	56
696	Curie phase transition and critical size for ferroelectricity in strained ultrathin PbTiO ₃ and BaTiO ₃ : A phenomenological study. 2017 , 507, 86-101	6
695	Ferroelectric or non-ferroelectric: Why so many materials exhibit ferroelectricity in the nanoscale. 2017 , 4, 021302	195
694	Review Article: Advanced nanoscale patterning and material synthesis with gas field helium and neon ion beams. 2017 , 35, 030802	36
693	Electromechanical properties of BaTiO ₃ -xBaSnO ₃ thin films prepared via combinatorial sputtering. 2017 , 43, 1597-1601	11
692	Fabrication and characterization of CaCuO ₂ /CaCu ₂ O ₃ thin films with enhanced third-order nonlinear properties. 2017 , 696, 321-328	1
691	Emergent Low-Symmetry Phases and Large Property Enhancements in Ferroelectric KNbO Bulk Crystals. 2017 , 29, 1700530	21

690	PbTiO-based perovskite ferroelectric and multiferroic thin films. 2017 , 19, 17493-17515	25
689	Electric modulation of magnetization at the Fe ₃ O ₄ /BaTiO ₃ interface. 2017 , 442, 242-246	10
688	Thermally Stable SrRuO Electrode for Oxide Heterostructures. 2017 , 9, 21314-21321	14
687	Orbital rearrangement mechanism and half-metallicity transition in strained Fe ₃ O ₄ /BaTiO ₃ interfaces. 2017 , 137, 243-248	
686	X-ray absorption spectroscopy on epitaxial BaTiO ₃ thin film. 2017 ,	
685	Lead-Free Polycrystalline Ferroelectric Nanowires with Enhanced Curie Temperature. 2017 , 27, 1701169	11
684	Induced pyroelectric effect in a planar field. 2017 , 59, 914-919	
683	Atomic mapping of structural distortions in 109° domain patterned BiFeO ₃ thin films. 2017 , 32, 2423-2430	6
682	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. 2017 , 9, 21879-21890	16
681	Surface-dominated conduction up to 240 K in the Kondo insulator SmB under strain. 2017 , 16, 708-711	25
680	Domain Evolution and Piezoelectric Response across Thermotropic Phase Boundary in (K,Na)NbO-Based Epitaxial Thin Films. 2017 , 9, 13315-13322	37
679	Domain engineering in BiFeO ₃ thin films. 2017 , 17, 688-703	14
678	Sub-100 nm integrated ferroelectric tunnel junction devices using hydrogen silsesquioxane planarization. 2017 , 35, 021803	2
677	Effect of in-plane tensile strain in (100)/(001)-oriented epitaxial PbTiO ₃ films on their phase transition temperature and tetragonal distortion. 2017 , 110, 122902	8
676	Reversible transition between coherently strained BiFeO ₃ and the metastable pseudotetragonal phase on (LaAlO ₃) _{0.3} (Sr ₂ AlTaO ₆) _{0.7} (001). 2017 , 121, 054102	2
675	A Complementary Metal Oxide Semiconductor Process-Compatible Ferroelectric Tunnel Junction. 2017 , 9, 13262-13268	101
674	Effect of in situ stress on grain growth and texture evolution in sputtered YSZ/Si films. 2017 , 7, 17832-17840	2
673	Investigation of the multiplet structures and crystal field effects of a TiO ₆ 3d 1 cluster based on configuration interaction calculations. 2017 , 50, 576-584	5

- 672 Thickness dependence study of multiferroic $\text{PbTi}_{0.5}\text{Fe}_{0.5}\text{O}_3$ thin films grown on Si substrate by using pulsed laser deposition technique. **2017**, 628, 61-67 6
- 671 Interfacial Multiferroics of TiO/PbTiO Heterostructure Driven by Ferroelectric Polarization Discontinuity. **2017**, 9, 1899-1906 22
- 670 Harnessing mechanical instabilities at the nanoscale to achieve ultra-low stiffness metals. **2017**, 8, 1137 9
- 669 RF-magnetron sputtering deposition of ultra-thin $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ films for non-volatile memory applications. **2017**, 4, 7000-7010 3
- 668 Mechanochemistry of graphene: Tuning ion absorption on graphene via strain. **2017**, 527, 30-34 2
- 667 Experimental study of effect of strain on electrocaloric effect in (001)-epitaxial $(\text{Ba,Sr})\text{TiO}_3$ thin films. **2017**, 56, 10PF15 4
- 666 Local structural distortions in strained $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ thin films. **2017**, 96, 2
- 665 Chiral phase transition at 180° domain walls in ferroelectric PbTiO_3 driven by epitaxial compressive strains. **2017**, 122, 134104 5
- 664 Magnetic ground state of the Ising-like antiferromagnet DyScO_3 . **2017**, 96, 14
- 663 High-temperature tunneling electroresistance in metal/ferroelectric/semiconductor tunnel junctions. **2017**, 111, 132905 10
- 662 Giant Enhancement of Exchange Coupling in Entropy-Stabilized Oxide Heterostructures. **2017**, 7, 13344 84
- 661 Mapping cation diffusion through lattice defects in epitaxial oxide thin films on the water-soluble buffer layer $\text{Sr}_3\text{Al}_2\text{O}_6$ using atomic resolution electron microscopy. **2017**, 5, 096108 8
- 660 Effect of ZnO on the microstructure and dielectric properties of BaTiO_3 ceramic coatings prepared by plasma spraying. **2017**, 727, 696-705 15
- 659 Novel two-dimensional ferroelectric PbTe under tension: A first-principles prediction. **2017**, 122, 064101 22
- 658 Origin of thermally stable ferroelectricity in a porous barium titanate thin film synthesized through block copolymer templating. **2017**, 5, 076111 3
- 657 The effect of oxygen stoichiometry at the interface of epitaxial $\text{BaTiO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ bilayers on its electronic and magnetic properties. **2017**, 122, 085310 25
- 656 Effect of deformation on thermal expansion behavior of $\text{Sr}_{0.2}\text{Ba}_{0.8}\text{TiO}_3/\text{Cu}$ composite. **2017**, 729, 735-741 7
- 655 Strain-phonon coupling in (111)-oriented perovskite oxides. **2017**, 96, 4

654	Phase transitions of $SC(NH_2)_2$ ferroelectrics in Al_2O_3 -based nanoporous matrices. 2017 , 59, 1783-1788	11
653	Nonlinear piezoelectric properties of epitaxial $BaTiO_3$ thin film. 2017 , 514, 9-18	3
652	Lead palladium titanate: A room-temperature multiferroic. 2017 , 96,	14
651	A review of recentab initiostudies on strain-tunable conductivity in tunnel junctions with piezoelectric, ferroelectric and multiferroic barriers. 2017 , 32, 083006	4
650	Tuning electro-optic susceptibility via strain engineering in artificial PZT multilayer films for high-performance broadband modulator. 2017 , 425, 1059-1065	5
649	Polar metal phase stabilized in strained La-doped $BaTiO_3$ films. 2017 , 7, 4631	22
648	New epitaxy paradigm in epitaxial self-assembled oxide vertically aligned nanocomposite thin films. 2017 , 32, 4054-4066	68
647	Three-State Ferroelastic Switching and Large Electromechanical Responses in $PbTiO_3$ Thin Films. 2017 , 29, 1702069	53
646	Charge screening strategy for domain pattern control in nano-scale ferroelectric systems. 2017 , 7, 5236	12
645	Physical properties in polydomain $c/a/c/a$ phase $PbTiO_3$ ferroelectric thick films: effect of thermal stresses. 2017 , 123, 1	2
644	In situ reversible tuning of photoluminescence of an epitaxial thin film via piezoelectric strain induced by a $Pb(Mg_{1/3}Nb_{2/3})O_3/PbTiO_3$ single crystal. 2017 , 5, 9115-9120	30
643	Enhanced polarization and dielectricity in $BaTiO_3:NiO$ nanocomposite films modulated by the microstructure. 2017 , 7, 38231-38242	7
642	Demonstration of ultra-high recyclable energy densities in domain-engineered ferroelectric films. 2017 , 8, 1999	95
641	On the persistence of polar domains in ultrathin ferroelectric capacitors. 2017 , 29, 284001	12
640	Nanoscale design of polarization in ultrathin ferroelectric heterostructures. 2017 , 8, 1419	55
639	Large Scale Two-Dimensional Flux-Closure Domain Arrays in Oxide Multilayers and Their Controlled Growth. 2017 , 17, 7258-7266	41
638	Strain coupling of oxygen non-stoichiometry in perovskite thin films. 2017 , 29, 493001	42
637	Localized Control of Curie Temperature in Perovskite Oxide Film by Capping-Layer-Induced Octahedral Distortion. 2017 , 119, 177203	22

- 636 Effect of in-plane strain anisotropy on (011) epitaxial BaTiO₃ and PbTiO₃ thin films. **2017**, 7, 105120 3
- 635 Dynamic strain-induced giant electroresistance and erasing effect in ultrathin ferroelectric tunnel-junction memory. **2017**, 95, 17
- 634 Carbon fixation in sediments of Sino-Pacific seas-differential contributions of bacterial and archaeal domains. **2017**, 175, 15-23 1
- 633 Flexible Quasi-Two-Dimensional CoFeO Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. **2017**, 11, 8002-8009 73
- 632 First-principles examination of low tolerance factor perovskites. **2017**, 117, e25420 5
- 631 Giant room temperature multiferroicity and domain structures in hot-press sintered Bi_{0.85}Sm_{0.15}Fe_{0.97}Sc_{0.03}O₃ ceramics. **2017**, 43, 12764-12769 8
- 630 Giant linear strain gradient with extremely low elastic energy in a perovskite nanostructure array. **2017**, 8, 15994 61
- 629 Temperature-dependent far-infrared reflectance of an epitaxial (BaTiO₃)₈/(SrTiO₃)₄ superlattice. **2017**, 95, 4
- 628 Stress Accommodation and Structural Distortions at Correlated Oxide Interfaces. **2017**, 55-74
- 627 Thin-film ferroelectric materials and their applications. **2017**, 2, 350
- 626 Pseudo-Landau levels of Bogoliubov quasiparticles in strained nodal superconductors. **2017**, 96, 9
- 625 Finite size effect on the structural and magnetic properties of MnAs/GaAs(001) patterned microstructures thin films. **2017**, 7, 16970 3
- 624 Enhancement of Polarization in Ferroelectric Films via the Incorporation of Gold Nanoparticles. **2017**, 2, 9067-9073 9
- 623 Class of diatomic ferroelectrics with multifunctional properties: IV-VI compounds in the distorted NiAs-type structure. **2017**, 96, 4
- 622 Orientation change with substrate type and composition in (100)/(001)-oriented epitaxial tetragonal Pb(Zr_xTi_{1-x})O₃ films. **2017**, 125, 458-462 3
- 621 Mutual phase locking of the magnetoelectric spin-torque nanooscillators. **2017**,
- 620 Orientation-dependent electro-optical response of BaTiO₃ on SrTiO₃-buffered Si(001) studied via spectroscopic ellipsometry. **2017**, 7, 2030 16
- 619 Very high commutation quality factor and dielectric tunability in nanocomposite SrTiO thin films with T enhanced to >300 °C. **2018**, 10, 3460-3468 20

618	Self-biased magnetoelectric coupling effect in the layered La _{0.7} Sr _{0.3} MnO ₃ /BaTiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ multiferroic heterostructure. 2018 , 747, 558-562	9
617	Stressor-layer-induced elastic strain sharing in SrTiO ₃ complex oxide sheets. 2018 , 112, 091905	1
616	Density functional theory computational study of ferroelectricity and piezoelectricity in BaTiO/PbTiO (0 1 1) superlattices. 2018 , 30, 155401	1
615	First-principles studies of spontaneous polarization in mixed poly(vinylidene fluoride)/2,3,3,3-tetrafluoropropene polymer crystals. 2018 , 14, 2484-2491	8
614	Strain-driven electric control of magnetization reversal at multiferroic interfaces. 2018 , 97,	13
613	Strain-engineering stabilization of BaTiO ₃ -based polar metals. 2018 , 97,	19
612	Self-assembled stoichiometric barium titanate thin films grown by molecular beam epitaxy. 2018 , 493, 15-19	1
611	Strain, temperature, and electric-field effects on the phase transition and piezoelectric responses of K _{0.5} Na _{0.5} NbO ₃ thin films. 2018 , 123, 154106	19
610	Variation in phase diagrams of strained (011) epitaxial BaTiO ₃ thin films. 2018 , 540, 43-50	2
609	BaZrxTi _{1-x} O ₃ Epitaxial Thin Films for Electrocaloric Investigations. 2018 , 6, 1526-1534	4
608	Effects of epitaxial strain, film thickness and electric-field frequency on the ferroelectric behavior of BaTiO ₃ nano films. 2018 , 144-145, 32-45	13
607	Self-assembly of multiferroic core-shell composites using DNA functionalized nanoparticles. 2018 , 460, 424-431	7
606	Ultrafast optically induced ferromagnetic/anti-ferromagnetic phase transition in GdTlO ₃ from first principles. 2018 , 3,	17
605	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. 2018 , 5, 536-544	44
604	Template assisted strain tuning and phase stabilization in epitaxial BiFeO ₃ thin films. 2018 ,	3
603	Multiphase nanodomains in a strained BaTiO ₃ film on a GdScO ₃ substrate. 2018 , 123, 064102	14
602	Thickness-Dependent Double-Epitaxial Growth in Strained SrTiCoO Films. 2018 , 10, 7469-7475	5
601	Significant role of antiferromagnetic GdFeO ₃ on multiferroism of bilayer thin films. 2018 , 5, 026416	1

600	Electrically induced, non-volatile, metal insulator transition in a ferroelectric-controlled MoS ₂ transistor. 2018 , 112, 043107	16
599	LaAlO ₃ : A substrate material with unusual ferroelastic properties. 2018 , 112, 042902	13
598	Anisotropic suppression of octahedral breathing distortion with the fully strained BaBiO ₃ /BaCeO ₃ heterointerface. 2018 , 6, 016107	6
597	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. 2018 , 18, 1253-1258	293
596	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. 2018 , 18, 1751-1757	121
595	Higher-order Landau phenomenological models for perovskite crystals based on the theory of singularities: a new phenomenology of BaTiO ₃ . 2018 , 91, 239-253	6
594	Anion Order and Spontaneous Polarization in LaTiO ₂ N Oxynitride Thin Films. 2018 , 120, 046001	20
593	Unusual devisable high-performance perovskite materials obtained by engineering in twins, domains, and antiphase boundaries. 2018 , 5, 568-576	8
592	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. 2018 , 145, 488-495	20
591	Reversible optical control of macroscopic polarization in ferroelectrics. 2018 , 12, 29-32	57
590	Revisiting the Optical Band Gap in Epitaxial BiFeO ₃ Thin Films. 2018 , 6, 1700836	31
589	Coexistence of rhombohedral and orthorhombic phases in ultrathin BiFeO ₃ films driven by interfacial oxygen octahedral coupling. 2018 , 145, 220-226	16
588	Frontiers in the Growth of Complex Oxide Thin Films: Past, Present, and Future of Hybrid MBE. 2018 , 28, 1702772	58
587	Chemical composition and temperature dependence of the energy storage properties of Ba _{1-x} Sr _x TiO ₃ ferroelectrics. 2018 , 101, 2976-2986	18
586	Tailoring Lattice Strain and Ferroelectric Polarization of Epitaxial BaTiO Thin Films on Si(001). 2018 , 8, 495	23
585	Flexocaloric response of epitaxial ferroelectric films. 2018 , 123, 024102	7
584	Chemical Synthesis of Multilayered Nanostructured Perovskite Thin Films with Dielectric Features for Electric Capacitors. 2018 , 1, 915-921	9
583	Periodic Giant Polarization Gradients in Doped BiFeO Thin Films. 2018 , 18, 717-724	36

582	Continuously Tuning Epitaxial Strains by Thermal Mismatch. 2018 , 12, 1306-1312	34
581	Strongly enhanced dielectric and energy storage properties in lead-free perovskite titanate thin films by alloying. 2018 , 45, 398-406	64
580	Domain Wall Motion in Perovskite Ferroelectrics Studied by the Nudged Elastic Band Method. 2018 , 122, 3091-3100	17
579	Chemical Synthesis of Porous Barium Titanate Thin Film and Thermal Stabilization of Ferroelectric Phase by Porosity-Induced Strain. 2018 ,	4
578	Dielectric, ferroelectric properties and photoconductivity effect of sol-gel grown SrTiO ₃ /BaTiO ₃ thin film heterostructure. 2018 , 44, 12157-12161	7
577	Prediction of Intrinsic Ferromagnetic Ferroelectricity in a Transition-Metal Halide Monolayer. 2018 , 120, 147601	149
576	[C H N]PbBr ₃ : An ABX ₃ -Type Semiconducting Perovskite Hybrid with Above-Room-Temperature Phase Transition. 2018 , 13, 982-988	18
575	First-principles analysis of ferroelectric transition in MnSnO ₃ and MnTiO ₃ perovskites. 2018 , 262, 251-255	4
574	Computational design and property predictions for two-dimensional nanostructures. 2018 , 21, 391-418	55
573	Anomalous piezoelectric response of ferroelectric mesocrystalline BaTiO ₃ /BiNaTiO ₃ nanocomposites designed by strain engineering. 2018 , 10, 8196-8206	12
572	Uniaxial Strain-Controlled Ferroelastic Domain Evolution in BiFeO ₃ . 2018 , 10, 11768-11775	19
571	High-temperature stress-dependent piezoelectric and dielectric coefficient of soft Pb(Zr,Ti)O ₃ . 2018 , 53, 3296-3308	11
570	Experimental evidence of charged domain walls in lead-free ferroelectric ceramics: light-driven nanodomain switching. 2018 , 10, 705-715	20
569	Ferroelectric and Magnetic Properties in Room-Temperature Multiferroic GaxFe _{2-x} O ₃ Epitaxial Thin Films. 2018 , 28, 1704789	38
568	Enabling magnetoelastic coupling in Ni/VO ₂ heterostructure by structural phase transition. 2018 , 29, 2561-2567	2
567	Enhanced solar absorption and visible-light photocatalytic and photoelectrochemical properties of aluminium-reduced BaTiO ₃ nanoparticles. 2018 , 54, 723-726	37
566	The frequency dependence of microstructure evolution in a ferroelectric nano-film during AC dynamic polarization switching. 2018 , 229, 795-805	6
565	In situ stress measurements of metal oxide thin films. 2018 , 109-132	1

564	Preparation and Dielectric Characterization of Ce-Doped BaTiO ₃ Nanotubes. 2018 , 381, 012104	1
563	Atomic Level Engineering of Structural and Functional Properties of Transition Metal Oxides. 2018 , 65, 255-260	
562	A generalized thermodynamic frame of magneto-electric-caloric coupling effects of single phase epitaxial multiferroic thin films. 2018 , 531, 186-195	3
561	Design strategy for ferroelectric-based polar metals with dimensionality-tunable electronic states. 2018 , 61, 1	6
560	Most facile synthesis of Zn-Al:LDHs nanosheets at room temperature via environmentally friendly process and their high power generation by flexoelectricity. 2018 , 10, 254-263	8
559	Fabrication and characterization of (Ba, Sr)RuO ₃ ceramic targets and thin films for ferroelectric BaTiO ₃ thin-film capacitors. 2018 , 8, 115135	1
558	Dielectric Polymers. 2018 , 1-49	2
557	Understanding doped perovskite ferroelectrics with defective dipole model. 2018 , 149, 244122	11
556	Excellent electrostrictive coefficient in bismuth sodium titanate-based ceramics via regulating degree of diffuseness and phase composition. 2018 , 124, 234103	7
555	Epitaxial ferroelectric oxide thin films for optical applications. 2018 , 5, 041108	26
554	Strain Control of Domain Structures in Ferroelectric Thin Films: Applications of Phase-Field Method. 2018 , 1-18	
553	Experimental Demonstration of in Situ Stress-Driven Optical Modulations in Flexible Semiconducting Thin Films with Enhanced Photodetecting Capability. 2018 , 30, 7776-7781	9
552	Ferroelectric Problem beyond the Conventional Scaling Law. 2018 , 121, 135702	8
551	Piezoelectric modulation of nonlinear optical response in BaTiO ₃ thin film. 2018 , 113, 132902	7
550	Origin of Prestress-Driven Optical Modulations of Flexible ZnO Thin Films Processed in Stretching Mode. 2018 , 9, 5934-5939	8
549	Status of CO ₂ conversion using microwave plasma. 2018 , 28, 283-291	33
548	Enhanced in-plane ferroelectricity in BaTiO ₃ thin films fabricated by aqueous chemical solution deposition. 2018 , 8, 105228	15
547	The Demonstration of High-Performance Multilayer BaTiO ₃ /BiFeO ₃ Stack MIM Capacitors. 2018 , 1-5	5

546	Investigation of Piezoelectricity and Curie Temperature of Pb(Mg _{1/3} , Nb _{2/3})O ₃ -PbTiO ₃ Epitaxial Thin Film on Si Prepared by Sputter Deposition With Fast Cooling. 2018 , 65, 1695-1702	3
545	Epitaxial Systems Combining Oxides and Semiconductors. 2018 , 377-402	2
544	Large Thermal Conductivity Switch Ratio in Barium Titanate Under Electric Field through First-Principles Calculation. 2018 , 1, 1800098	10
543	Nonstoichiometry, structure, and properties of Ba _{1-x} TiO _y thin films. 2018 , 6, 10751-10759	7
542	Metal-insulator-transition engineering by modulation tilt-control in perovskite nickelates for room temperature optical switching. 2018 , 115, 9515-9520	33
541	Self-trapped holes in BaTiO ₃ . 2018 , 124, 085703	10
540	Textured Bi _{1/2} Na _{1/2} TiO ₃ -BaTiO ₃ Lead-Free Films with Enhanced Piezoelectric Property and Depolarization Temperature. 2018 , 4, 1800351	14
539	Cationic Ordering Coupled to Reconstruction of Basic Building Units during Synthesis of High-Ni Layered Oxides. 2018 , 140, 12484-12492	65
538	Effect of strain on the Curie temperature and band structure of low-dimensional SbSI. 2018 , 112, 183104	6
537	High electromechanical strain and enhanced temperature characteristics in lead-free (Na,Bi)TiO-BaTiO thin films on Si substrates. 2018 , 8, 7847	7
536	Room-temperature ferroelectricity and a switchable diode effect in two-dimensional HnSe thin layers. 2018 , 10, 14885-14892	98
535	Calculation of strained BaTiO with different exchange correlation functionals examined with criterion by Ginzburg-Landau theory, uncovering expressions by crystallographic parameters. 2018 , 148, 194702	7
534	Enhancing the magnetic moment of ferrimagnetic NiCo ₂ O ₄ via ion irradiation driven oxygen vacancies. 2018 , 6, 066109	15
533	The path to flexible ferroelectrics: Approaches and progress. 2018 , 57, 0902A3	8
532	Single and heterostructure multiferroic thin films. 2018 , 487-514	
531	Designer defect stabilization of the super tetragonal phase in >70-nm-thick BiFeO ₃ films on LaAlO ₃ substrates. 2018 , 57, 0902B2	14
530	Nanosized BaTiO ₃ -based systems. 2018 , 153-200	
529	Crystalline SrZrO ₃ deposition on Ge (001) by atomic layer deposition for high-k dielectric applications. 2018 , 124, 044102	9

528	Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. 2018 , 30, e1802737	21
527	Cross-Correlation between Strain, Ferroelectricity, and Ferromagnetism in Epitaxial Multiferroic CoFeO/BaTiO Heterostructures. 2018 , 10, 28003-28014	14
526	Large Flexoelectriclike Response from the Spontaneously Polarized Surfaces in Ferroelectric Ceramics. 2018 , 121, 057602	28
525	Structural transition induced enhancement of magnetization and magnetoresistance in epitaxial (Pr _{0.5} Ba _{0.5} MnO ₃) _{1-x} (CeO ₂) _x vertically aligned thin films. 2018 , 20, 5017-5024	2
524	Probing Ferroic States in Oxide Thin Films Using Optical Second Harmonic Generation. 2018 , 8, 570	32
523	Control of misfit strain in ferroelectric BaTiO ₃ thin-film capacitors with SrRuO ₃ -based electrodes on (Ba, Sr)TiO ₃ -buffered SrTiO ₃ substrates. 2018 , 113, 012903	7
522	Highly Air-Stable Carbon-Based δ -CsPbI ₃ Perovskite Solar Cells with a Broadened Optical Spectrum. 2018 , 3, 1824-1831	183
521	Ferroelectric Polarization in CsPbI ₃ /CsSnI ₃ Perovskite Heterostructure. 2018 , 122, 17820-17824	10
520	Control of Polar Orientation and Lattice Strain in Epitaxial BaTiO Films on Silicon. 2018 , 10, 25529-25535	16
519	Large increase of Curie temperature in (110)-oriented La _{0.7} Sr _{0.3} MnO ₃ films. 2018 , 44, 13695-13698	6
518	Design of a Vertical Composite Thin Film System with Ultralow Leakage To Yield Large Converse Magnetoelectric Effect. 2018 , 10, 18237-18245	20
517	Superlattice-like structure and enhanced ferroelectric properties of intergrowth Aurivillius oxides.. 2018 , 8, 16937-16946	4
516	Solely Calcine Controlled Ferroelectricity and Resistivity of Barium Titanate Thin Films and Their Advanced Memory Applications. 2018 ,	
515	Optical control of polarization in ferroelectric heterostructures. 2018 , 9, 3344	69
514	Chemical nature of ferroelastic twin domains in CHNHPbI perovskite. 2018 , 17, 1013-1019	114
513	Vertically Aligned Nanocomposite BaTiO ₃ :YMnO ₃ Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. 2018 , 1, 2509-2514	23
512	Ferroelectric and Piezoelectric Effects on the Optical Process in Advanced Materials and Devices. 2018 , 30, e1707007	107
511	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. 2018 , 130, 9981-9985	10

510	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. 2018 , 57, 9833-9837	21
509	Fabrication of indium-tin-oxide free, all-solution-processed flexible nanogenerator device using nanocomposite of barium titanate and graphene quantum dots in polyvinylidene fluoride polymer matrix. 2018 , 61, 289-295	14
508	General view of ferroelectrics. 2018 , 5-33	
507	Introduction. 2018 , 1-28	1
506	Atomic layer deposition of epitaxial ferroelectric barium titanate on Si(001) for electronic and photonic applications. 2019 , 126, 064101	12
505	Phase transition behavior and high electrostrictive strains in Bi(Li _{0.5} Nb _{0.5})O ₃ -doped lead magnesium niobate-based solid solutions. 2019 , 806, 206-214	10
504	Periodicity-Doubling Cascades: Direct Observation in Ferroelastic Materials. 2019 , 123, 087603	20
503	Chemical Uniformity in Ferroelectric K Na NbO Thin Films. 2019 , 3, 1800114	8
502	Ferroelectric thin films and nanostructures: current and future. 2019 , 19-39	
501	Phase-field modeling for elastic domain engineering applications. 2019 , 91-127	
500	Low-temperature processing of ferroelectric thin films on Si substrates. 2019 , 203-235	
499	Engineering Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Thin Films by Epitaxial Stress. 2019 , 1, 1449-1457	49
498	Bi(Mg _{0.5} Ti _{0.5})O ₃ -doped NaNbO ₃ ferroelectric ceramics: Linear regulation of Curie temperature and ultra-high thermally stable dielectric response. 2019 , 45, 21175-21182	8
497	Orientation and electrode configuration dependence on ferroelectric, dielectric properties of BaTiO ₃ thin films. 2019 , 45, 22716-22722	8
496	Field deployable spray-on ultrasonic coatings for high-temperature applications. 2019 ,	2
495	Insights on the Jahn-Teller distortion, hydrogen bonding and local-environment correlations in a promised multiferroic hybrid perovskite. 2019 , 31, 45LT01	0
494	Structures and electronic properties of domain walls in BiFeO thin films. 2019 , 6, 669-683	9
493	Electro-optic Photonic Circuits. 2019 ,	0

492 Super-Crystals in Composite Ferroelectrics. **2019**, 71-91

491 Ferroelectric Tunnel Junctions: Modulations on the Potential Barrier. **2020**, 32, e1904123 63

490 A Flexible Strain Sensor of Ba(Ti, Nb)O₃/Mica with a Broad Working Temperature Range. **2019**, 4, 1900578 11

489 Strain-Induced Increase of Dielectric Constant in EuO Thin Film. **2019**, 6, 106321 4

488 Ferroelectric Control of Magnetism in Ultrathin HfOCoPt Layers. **2019**, 11, 34385-34393 6

487 Mesostructured HfO/AlO Composite Thin Films with Reduced Leakage Current for Ion-Conducting Devices. **2019**, 4, 14680-14687 5

486 Opportunities and challenges for magnetoelectric devices. **2019**, 7, 080905 42

485 Dynamical Magnetic Field Accompanying the Motion of Ferroelectric Domain Walls. **2019**, 123, 127601 15

484 Ferroelectric films on metal substrates: The role of thermal expansion mismatch on dielectric, piezoelectric, and pyroelectric properties. **2019**, 126, 134103 4

483 Depolarizing-Field Effects in Epitaxial Capacitor Heterostructures. **2019**, 123, 147601 19

482 Ferroelectric properties of BaTiO₃ thin films co-doped with Mn and Nb. **2019**, 9, 095207 6

481 Multiferroic properties and ferroelectric domain structures of Yb-doped BiFeO₃ thin films on glass substrates. **2019**, 558, 24-27 10

480 Uncovering the mystery of ferroelectricity in zero dimensional nanoparticles. **2019**, 1, 664-670 20

479 Ferroelectric mesocrystalline BaTiO/BaBiTiO nanocomposite: formation mechanism, nanostructure, and anomalous ferroelectric response. **2019**, 11, 3837-3846 8

478 Dielectric Properties of Strained Nickel Oxide Thin Films. **2019**, 74, 984-988 9

477 Large tetragonality and room temperature ferroelectricity in compressively strained CaTiO₃ thin films. **2019**, 7, 051104 5

476 Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. **2019**, 16, 204-212 17

475 Thickness-dependence of growth rate, dielectric response, and capacitance properties in Ba_{0.67}Sr_{0.33}TiO₃/LaNiO₃ hetero-structure thin films for film capacitor applications. **2019**, 685, 269-274 9

474	A Coherently Strained Monoclinic [111]PbTiO ₃ Film Exhibiting Zero Poisson's Ratio State. 2019 , 29, 1901687	19
473	Dielectric Polymers. 2019 , 241-288	3
472	Ferroelectricity-Enhanced Piezo-Phototronic Effect in 2D V-Doped ZnO Nanosheets. 2019 , 6, 1900314	20
471	Evolution of element-specific electronic structures in alkaline titanates. 2019 , 9, 065213	2
470	Two-Dimensional Ferroelectric Tunnel Junction: The Case of Monolayer In:SnSe/SnSe/Sb:SnSe Homostructure. 2019 , 1, 1133-1140	34
469	Laser processing of nanostructures: enhancing functional properties of lead-free perovskite nanostructures through chemical pressure and epitaxial strain. 2019 , 113-152	
468	Buried In-Plane Ferroelectric Domains in Fe-Doped Single-Crystalline Aurivillius Thin Films. 2019 , 1, 1019-1028	19
467	Electrical and optical modulation on ferroelectric properties of P(VDF-TrFE) thin film capacitors. 2019 , 35, 2194-2199	5
466	Modeling of Negative Capacitance in Ferroelectric Thin Films. 2019 , 31, e1805266	55
465	Pulsed laser deposition of complex oxide heteroepitaxy. 2019 , 60, 481-501	12
464	Two-dimensional ferromagnetic-ferroelectric multiferroics in violation of the d ₀ rule. 2019 , 99,	34
463	Investigation of room temperature ferromagnetism in transition metal doped BiFeO ₃ . 2019 , 31, 395802	11
462	Huge impact of compressive strain on phase transition temperatures in epitaxial ferroelectric K _x Na _{1-x} NbO ₃ thin films. 2019 , 114, 232905	16
461	Real-time studies of ferroelectric domain switching: a review. 2019 , 82, 126502	20
460	Polymorphic phase transition in BaTiO ₃ by Ni doping. 2019 , 45, 16305-16310	12
459	Electrostriction, Electroresistance, and Electromigration in Epitaxial BaTiO ₃ -Based Heterostructures: Role of Interfaces and Electric Poling. 2019 , 2, 3556-3569	2
458	Strain sensitivity of band structure and electron mobility in perovskite BaSnO ₃ : first-principles calculation.. 2019 , 9, 14072-14077	7
457	Evidence of ferromagnetic ground state and strong spin phonon coupling in Zr ₂ TiAl with bi-axial strain: first principles study. 2019 , 3, 055010	

456	Tuning perovskite oxides by strain: Electronic structure, properties, and functions in (electro)catalysis and ferroelectricity. 2019 , 31, 100-118	98
455	Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. 2019 , 11,	4
454	Direct correlation between the band gap and dielectric loss in Hf doped BaTiO ₃ . 2019 , 30, 8064-8070	20
453	Creating emergent phenomena in oxide superlattices. 2019 , 4, 257-268	88
452	Enhanced magnetism in lightly doped manganite heterostructures: strain or stoichiometry?. 2019 , 11, 7364-7370	10
451	Pressure engineering of photovoltaic perovskites. 2019 , 27, 91-106	50
450	Residual mechanical stresses in pressure treated BaTiO ₃ powder. 2019 , 45, 12455-12460	5
449	Induced high-temperature ferromagnetism by structural phase transitions in strained antiferromagnetic EFMn epitaxial films. 2019 , 9, 3669	5
448	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. 2019 , 19, 3057-3065	10
447	Synthesis and characterization of (111)-oriented BaTiO ₃ thin films. 2019 , 6, 056409	2
446	Complementary Resistive Switching Using Metal-Ferroelectric-Metal Tunnel Junctions. 2019 , 15, e1805042	10
445	Voltage-Control of Magnetism in All-Solid-State and Solid/Liquid Magnetoelectric Composites. 2019 , 31, e1806662	58
444	Strain engineering of ferroelectric KNbO ₃ for bulk photovoltaic applications: an insight from density functional theory calculations. 2019 , 31, 505502	6
443	Mott insulator to metal transition driven by oxygen incorporation in epitaxial LaTiO ₃ films. 2019 , 115, 261604	8
442	Features of Raman spectra in barium titanate pressed powder. 2019 , 699, 012058	1
441	Coherent acoustic phonons and ultrafast carrier dynamics in hetero-epitaxial BaTiO ₃ BiFeO ₃ films and nanorods. 2019 , 7, 14212-14222	4
440	Nanograins in ferroelectric films. 2019 , 129-162	
439	Pulsed Laser Deposition of Rocksalt Magnetic Binary Oxides. 2019 , 692, 137606	4

438	Observation of room temperature Raman, magnetic and ferroelectric response of $(1-x)\text{NiCo}_2\text{O}_4-x\text{BaTiO}_3$ nanocomposites system. 2019 ,	
437	Assessment of strong relaxation on BaTiO_3 modified by Mn^{2+} and Pr^{3+} , K^+ at A and B site respectively. 2019 , 6, 125082	2
436	Interface-induced magnetic polar metal phase in complex oxides. 2019 , 10, 5248	12
435	Tuning magnetization compensation and Curie temperatures in epitaxial rare earth iron garnet films. 2019 , 100,	11
434	Strain Manipulation of Magnetic Anisotropy in Room-Temperature Ferrimagnetic Quadruple Perovskite $\text{CeCu}_3\text{Mn}_4\text{O}_{12}$. 2019 , 1, 2514-2521	2
433	Flexible lead-free oxide film capacitors with ultrahigh energy storage performances in extremely wide operating temperature. 2019 , 57, 519-527	49
432	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. 2019 , 5, 1800600	81
431	Layer-by-layer assembly for ultrathin energy-harvesting films: Piezoelectric and triboelectric nanocomposite films. 2019 , 56, 1-15	35
430	Piezoelectric and ferroelectric characteristics of P(VDF-TrFE) thin films on Pt and ITO substrates. 2019 , 238, 237-240	5
429	Piezoelectric properties of a near strain-free lead zirconate titanate thin films deposited on a Si substrate. 2019 , 239, 71-74	4
428	Realization of rhombohedral, mixed, and tetragonal like phases of BiFeO_3 and ferroelectric domain engineering using a strain tuning layer on $\text{LaAlO}_3(001)$ substrate. 2019 , 125, 012501	8
427	Design of Transistors Using High-Permittivity Materials. 2019 , 66, 896-900	23
426	Compositional characteristics and sources of DIC and DOC in seawater of the Okinawa Trough, East China Sea. 2019 , 174, 108-117	10
425	Phase stability and dielectric properties of (011) epitaxial $(\text{Ba}_{0.6}\text{Sr}_{0.4})\text{TiO}_3$ films. 2019 , 125, 082528	5
424	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. 2019 , 31, e1803241	84
423	Tuning the Magnetic Properties of FeCo Thin Films through the Magnetoelastic Effect Induced by the Au Underlayer Thickness. 2019 , 11, 1529-1537	10
422	Semicoherent heterophase interfaces with core-spreading dislocation structures in magneto-electro-elastic multilayers under external surface loads. 2019 , 124, 929-956	9
421	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. 2019 , 31, e1803312	22

420	Built-in electric field induces polarization rotation in bilayer BiFeO ₃ /(Ba,Sr)TiO ₃ thin films. 2020 , 812, 152164	1
419	Comparative structural and optical studies on pellet and powder samples of BaTiO ₃ near phase transition temperature. 2020 , 46, 3250-3256	12
418	REScO ₃ Substrates Purveyors of Strain Engineering. 2020 , 55, 1900111	1
417	Epitaxial Oxides on Semiconductors: From Fundamentals to New Devices. 2020 , 30, 1901597	36
416	Effect of mechanical force on domain switching in BiFeO ₃ ultrathin films. 2020 , 63, 1	2
415	Pressure induced structure distortion in ferroelectrics with high Curie point and enhanced piezoelectric properties. 2020 , 818, 152867	6
414	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. 2020 , 7, 1901606	15
413	Excellent thermal stability of large polarization in (Bi _{0.5} Na _{0.5})TiO ₃ -BaTiO ₃ thin films induced by defect dipole. 2020 , 504, 144391	4
412	A multi-scale model linking microstructure and macro electric behaviors of ferroelectric field effect transistor. 2020 , 20, 406-412	
411	Robust Ferroelectric Properties in (K,Na)NbO-Based Lead-Free Films via a Self-Assembled Nanocomposite Approach. 2020 , 12, 4616-4624	10
410	Magnetolectric Coupling in Epitaxial Multiferroic BiFeO ₃ /BaTiO ₃ Composite Thin Films. 2020 , 257, 1900613	7
409	Targeted chemical pressure yields tuneable millimetre-wave dielectric. 2020 , 19, 176-181	14
408	Suspended single-crystalline oxide structures on silicon through wet-etch techniques: Effects of oxygen vacancies and dislocations on etch rates. 2020 , 38, 013406	2
407	An efficient space-time phase field discretization for ferroelectrics. 2020 , 28, 025005	2
406	Effect of strain and doping on the polar metal phase in LiOsO. 2020 , 32, 125501	7
405	Mn _{0.7} Fe _{2.3} O ₄ Nanoplatelets Embedded in BaTiO ₃ Perovskite Thin Films for Multifunctional Composite Barriers. 2020 , 3, 327-341	1
404	Strain effects on conductivity and charge transport in La-doped BaTiO ₃ thin films. 2020 , 53, 075305	3
403	Pyroelectric catalysis. 2020 , 78, 105371	22

402	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. 2020 , 12, 45015-45022	3
401	Tracking ferroelectric domain formation during epitaxial growth of PbTiO ₃ films. 2020 , 117, 132901	13
400	Emergent multiferroicity and strain-driven metal-semiconductor transitions in LaMnO ₃ /RMnO ₃ superlattices (R = Pr, Pm, Sm and Gd). 2020 , 22, 17503-17512	1
399	Dielectric breakdown in epitaxial BaTiO ₃ thin films. 2020 , 38, 044007	1
398	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. 2020 , 11, 5923	8
397	Piezoelectric Materials for Controlling Electro-Chemical Processes. 2020 , 12, 149	38
396	Exchange Bias in a LaSrMnO ₃ /NiO Heterointerface Integrated on a Flexible Mica Substrate. 2020 , 12, 39920-39925	25
395	Multiferroic thin film via SrRuO ₃ /BaTiO ₃ vertically aligned nanocomposite design. 2020 , 117, 162902	5
394	Magnetic domain engineering in SrRuO ₃ thin films. 2020 , 5,	10
393	Tetragonal Distortion of a BaTiO ₃ /BiNaTiO ₃ Nanocomposite Responsible for Anomalous Piezoelectric and Ferroelectric Behaviors. 2020 , 5, 22800-22807	3
392	Additive Manufacturing of Piezoelectric Materials. 2020 , 30, 2005141	84
391	Beyond Substrates: Strain Engineering of Ferroelectric Membranes. 2020 , 32, e2003780	17
390	Flexoelectricity in thin films and membranes of complex oxides. 2020 , 8, 090901	5
389	Induced ferroelectric phases in SrTiO ₃ by a nanocomposite approach. 2020 , 12, 18193-18199	6
388	Variational Phase Field Formulations of Polarization and Phase Transition in Ferroelectric Thin Films. 2020 , 80, 1590-1606	1
387	In-plane ferroelectricity and enhanced Curie temperature in perovskite BaTiO ₃ epitaxial thin films. 2020 , 117, 072902	4
386	. 2020 , 8, 217246-217254	0
385	Magnetoelectric Coupling in Bismuth Ferrite: Challenges and Perspectives. 2020 , 10, 1221	6

384	Landau, Ginzburg, Devonshire and others. 2020 , 569, 310-323	0
383	Persistence of Ferroelectricity Close to Unit-Cell Thickness in Structurally Disordered Aurivillius Phases. 2020 , 32, 10511-10523	4
382	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. 2020 , 117, 151601	5
381	Three-Dimensional Lead Bromide Hybrid Ferroelectric Realized by Lattice Expansion. 2020 , 142, 19698-19704	8
380	Misfit epitaxial strain manipulated transport properties in cubic In ₂ O ₃ hetero-epilayers. 2020 , 117, 102104	1
379	Mechanically induced ferroelectric switching in BaTiO ₃ thin films. 2020 , 193, 151-162	12
378	Strain-mediated magneto-electric interactions in hexagonal ferrite and ferroelectric coaxial nanofibers. 2020 , 10, 230-241	3
377	Room-Temperature Ferroelectric Material Composed of a Two-Dimensional Metal Halide Double Perovskite for X-ray Detection. 2020 , 59, 13879-13884	54
376	Room-Temperature Ferroelectric Material Composed of a Two-Dimensional Metal Halide Double Perovskite for X-ray Detection. 2020 , 132, 13983-13988	20
375	Temperature- and Stress-Dependent Electromechanical Response of Porous Pb(Zr,Ti)O ₃ . 2020 , 22, 2000389	3
374	Interface enhanced functionalities in oxide superlattices under mechanical and electric boundary conditions. 2020 , 6,	6
373	Flexible inorganic oxide thin-film electronics enabled by advanced strategies. 2020 , 41, 041602	2
372	Supertetragonal Phases of Perovskite Oxides: Insights from Electronic Structure Calculations. 2020 , 60, 833-841	4
371	Robust Ferromagnetism in Highly Strained SrCoO ₃ Thin Films. 2020 , 10,	5
370	Role of O 2p-Ti 3d orbital hybridization in dielectric and ferroelectric properties of barium zirconate titanate ceramics. 2020 , 129, 110905	2
369	Role of ferroelectric polarization during growth of highly strained ferroelectric materials. 2020 , 11, 2630	8
368	First-principles study of the adsorption of 3d transition metals on BaO- and TiO-terminated cubic-phase BaTiO(001) surfaces. 2020 , 152, 204701	5
367	Charge effects in donor-doped perovskite ferroelectrics. 2020 , 103, 5392-5399	5

366	Strain-induced room-temperature ferroelectricity in SrTiO membranes. 2020 , 11, 3141	51
365	Large magnetoelectric coupling in multiferroic oxide heterostructures assembled via epitaxial lift-off. 2020 , 11, 3190	15
364	Vertically aligned nanocomposite (BaTiO ₃) _{0.8} : (La _{0.7} Sr _{0.3} MnO ₃) _{0.2} thin films with anisotropic multifunctionalities. 2020 , 2, 3276-3283	10
363	Direct Observation of Large Atomic Polar Displacements in Epitaxial Barium Titanate Thin Films. 2020 , 7, 2000555	4
362	Epitaxial growth of SrCaTiO ₃ films on GaN by molecular beam epitaxy with a TiO ₂ buffer layer. 2020 , 127, 214104	1
361	Dynamic tuning of dielectric permittivity in BaTiO ₃ via electrical biasing. 2020 , 8, 321-327	2
360	Composition and annealing effects on the linear electro-optic response of solution-deposited barium strontium titanate. 2020 , 103, 5700-5705	5
359	Sub-nanosecond memristor based on ferroelectric tunnel junction. 2020 , 11, 1439	73
358	Mechanically controllable nonlinear dielectrics. 2020 , 6, eaaz3180	12
357	Strain engineering of dischargeable energy density of ferroelectric thin-film capacitors. 2020 , 72, 104665	26
356	The frequency dependence of electromechanical behaviors of columnar-grained BaTiO ₃ nanofilms. 2020 , 384, 126374	4
355	The effect of oxygen vacancy plate on the domain structure in BiFeO ₃ thin films by phase field simulations. 2020 , 127, 094102	1
354	Exploration of the intrinsic factors limiting the photocurrent density in ferroelectric BiFeO ₃ thin film. 2020 , 8, 6863-6873	14
353	Low temperature magnetism in the rare-earth perovskite GdScO ₃ . 2020 , 29, 057503	3
352	Electro-Optic Metasurfaces Based on Barium Titanate Nanoparticle Films. 2020 , 8, 2000623	10
351	Electronic band structure of (111) SrRuO ₃ thin films: An angle-resolved photoemission spectroscopy study. 2020 , 102,	1
350	Evolution of ferroelectricity in ultrathin PbTiO films as revealed by electric double layer gating. 2020 , 10, 10864	3
349	Strain related curie temperature and improved piezoelectric properties of lead-free (1-x)Ba(Sn,Ti)O ₃ -x(Ba,Ca)TiO ₃ ceramics. 2020 , 46, 25050-25057	8

348	Physical vapor deposited organic ferroelectric diisopropylammonium bromide film and its self-powered photodetector characteristics.. 2020 , 10, 25773-25779	3
347	Czochralski growth and characterization of perovskite-type (La,Nd)(Lu,Sc)O ₃ single crystals with a pseudocubic lattice parameter of about 4.09 Å 2020 , 536, 125526	1
346	Trends of epitaxial perovskite oxide films catalyzing the oxygen evolution reaction in alkaline media. 2020 , 2, 032003	20
345	High-Resolution Crystal Truncation Rod Scattering: Application to Ultrathin Layers and Buried Interfaces. 2020 , 7, 1901772	13
344	Tunability of martensitic transformation in Mg-Sc shape memory alloys: A DFT study. 2020 , 189, 1-9	10
343	Highly stable performance of flexible Hf _{0.6} Zr _{0.4} O ₂ ferroelectric thin films under multi-service conditions. 2020 , 8, 3878-3886	15
342	Electrical Control of Magnetic Phase Transition in a Type-I Multiferroic Double-Metal Trihalide Monolayer. 2020 , 124, 067602	38
341	Piezo-phototronic effect enhanced photodetectors based on MAPbI ₃ perovskite. 2020 , 8, 2709-2718	13
340	Epitaxial optimization of atomically smooth Sr ₃ Al ₂ O ₆ for freestanding perovskite films by molecular beam epitaxy. 2020 , 697, 137815	11
339	Size and scaling effects in barium titanate. An overview. 2020 , 40, 3744-3758	58
338	Phenomenological modeling of anisotropic dielectric properties in epitaxial (Pb, Sr)TiO ₃ thin films. 2020 , 10, 015022	3
337	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in EuTiO Nanocomposite Thin Films. 2020 , 12, 8513-8521	7
336	Temperature-independent giant dielectric response in transitional BaTiO ₃ thin films. 2020 , 7, 011402	20
335	Enhanced magnetoelectric coefficient and interfacial compatibility by constructing a three-phase CFO@BT@PDA/P(VDF-TrFE) core-shell nanocomposite. 2020 , 131, 105805	25
334	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO ₃ Multiferroic Films. 2020 , 30, 2000343	11
333	Giant Superelastic Piezoelectricity in Flexible Ferroelectric BaTiO Membranes. 2020 , 14, 5053-5060	16
332	3D architectures of single-crystalline complex oxides. 2020 , 7, 1552-1557	4
331	Tuning the Charge Carriers Migration in Epitaxial BaTiO ₃ Thin-Film Photoanodes. 2020 , 124, 10315-10323	4

330	Strain-induced structural phase transition and the rotation of polarization in BaTiO ₃ films. 2020 , 181, 109713	2
329	Polar nano-clusters in nominally paraelectric ceramics demonstrating high microwave tunability for wireless communication. 2020 , 40, 3996-4003	12
328	Prediction of room-temperature multiferroicity in strained MoCr ₂ S ₆ monolayer. 2020 , 127, 155302	2
327	Metamagnetism and kinetic arrest in a long-range ferromagnetically ordered multicaloric double perovskite Y ₂ CoMnO ₆ . 2020 , 507, 166821	9
326	Strain mediated enhancement in magnetoelectric properties of sonochemically synthesized piezoelectric and piezomagnetic composites. 2021 , 47, 6496-6504	6
325	Two dimensional ferroelectrics: Candidate for controllable physical and chemical applications. 2021 , 11, e1496	12
324	Lowering of T _c in Van Der Waals Layered Materials Under In-Plane Strain. 2021 , 68, 253-258	1
323	High-throughput computational screening of oxide double perovskites for optoelectronic and photocatalysis applications. 2021 , 57, 351-358	4
322	Is the strain responsible to instability of inorganic perovskites and their photovoltaic devices?. 2021 , 19, 100601	9
321	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. 2021 , 21, 1246-1252	4
320	Numerical Modeling of Heat Transfer and Thermal Stress at the Czochralski Growth of Neodymium Scandate Single Crystals. 2021 , 56, 2000106	1
319	Large Polarization Switching and High-Temperature Magnetoelectric Coupling in Multiferroic GaFeO Systems. 2021 , 60, 225-230	3
318	Emergent strain engineering of multiferroic BiFeO ₃ thin films. 2021 , 7, 281-294	8
317	Formation mechanisms and electrical properties of perovskite mesocrystals. 2021 , 47, 1479-1512	4
316	A short review on inorganic thin films from device perspective. 2021 , 231-275	1
315	Epitaxial strain tunable conductivity and charge transport of Ba _{0.6} La _{0.4} TiO ₃ thin films deposited by pulsed laser deposition. 2021 , 129, 025106	
314	Investigations on Chemical Assisted Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO ₃ -Gr Composite. 2021 ,	
313	Charge transfer enhancement between the Pt electrode and the ferroelectric BaTiO ₃ phase sensors. 2021 , 570, 88-93	1

312	Columnar Nanograined BaTiO ₃ Ferroelectric Thin Films Integrated on Si with a Sizable Dielectric Tunability. 2021 , 437	
311	PFM (piezoresponse force microscopy)-aided design for molecular ferroelectrics. 2021 , 50, 8248-8278	21
310	Strain-temperature phase diagram of BaZrO ₃ with antiferrodistortive distortions. 2021 , 103,	0
309	Strain dependence of dissociative adsorption of H ₂ O on epitaxially strained, out-of-plane polarized, BaTiO ₃ (001) thin films. 2021 , 717, 138428	0
308	Biomimetic and flexible piezoelectric mobile acoustic sensors with multiresonant ultrathin structures for machine learning biometrics. 2021 , 7,	39
307	Anisotropic in-plane dielectric and ferroelectric properties of tensile-strained BaTiO ₃ films with three different crystallographic orientations. 2021 , 11, 025016	3
306	A Highly Strained Phase in PbZrTiO Films with Enhanced Ferroelectric Properties. 2021 , 8, 2003582	10
305	Structural and microstructural features of lead-free BNTBT thin films: Nanoscale electromechanical response analysis. 2021 , 104, 3665-3681	2
304	Tailoring physical functionalities of complex oxides by vertically aligned nanocomposite thin-film design. 2021 , 46, 159-167	12
303	Structure, dielectrical properties and capacitance properties of Ba _{0.3} Sr _{0.7} Zr _{0.18} Ti _{0.82} O ₃ /BaTiO ₃ hetero-structure thin films with different BTO layer thicknesses. 2021 , 8, 026303	1
302	A combinatory ferroelectric compound bridging simple ABO and A-site-ordered quadruple perovskite. 2021 , 12, 747	9
301	Epitaxial (100), (110), and (111) BaTiO ₃ films on SrTiO ₃ substrates: A transmission electron microscopy study. 2021 , 129, 095304	1
300	Self-Assembled Metal-Dielectric Hybrid Metamaterials in Vertically Aligned Nanocomposite Form with Tailorable Optical Properties and Coupled Multifunctionalities. 2021 , 2, 2000174	4
299	Strain Relaxation via Phase Transformation in High-Mobility SrSnO ₃ Films. 2021 , 3, 1127-1132	3
298	Tuning the magnetic properties of V ₂ O ₃ /CoFeB heterostructures across the V ₂ O ₃ structural transition. 2021 , 5,	3
297	Metal Nitride Electrode Stress and Chemistry Effects on Phase and Polarization Response in Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Thin Films. 2021 , 8, 2100018	6
296	Surface effects on domain switching of a ferroelectric thin film under local mechanical load: A phase-field investigation. 2021 , 129, 094101	1
295	Multiferroic Systems of BiFeO ₃ and BaTiO ₃ Nanostructures: New Ideas and Insights from Recent Magnetoelectric Advancements. 2021 , 95-132	

294	Strong Room-Temperature Ferroelectricity in Strained SrTiO Homoepitaxial Film. 2021 , 33, e2008316	10
293	Origin of ferroelectricity in cubic phase of Hf substituted BaTiO. 2021 , 33,	7
292	Strain-driven autonomous control of cation distribution for artificial ferroelectrics. 2021 , 7,	2
291	Chemical-Pressure-Modulated BaTiO Thin Films with Large Spontaneous Polarization and High Curie Temperature. 2021 , 143, 6491-6497	14
290	Self-assembled three-dimensional framework of PbTiO ₃ :Fe ₂ O ₃ nanostructures with room temperature multiferroism. 2021 , 544, 148945	1
289	Dielectric response of BaTiO ₃ electronic states under AC fields via microsecond time-resolved X-ray absorption spectroscopy. 2021 , 207, 116681	0
288	Scavenging Energy Sources Using Ferroelectric Materials. 2021 , 31, 2100905	9
287	Dielectric Relaxation Behavior of BTO/LSMO Heterojunction. 2021 , 11,	1
286	Strain engineering of epitaxial oxide heterostructures beyond substrate limitations. 2021 , 4, 1323-1334	12
285	Coupling between interfacial strain and oxygen vacancies at complex-oxides interfaces. 2021 , 129, 171102	4
284	High Energy Performance Ferroelectric (Ba,Sr)(Zr,Ti)O Film Capacitors Integrated on Si at 400 °C. 2021 , 13, 22717-22727	11
283	Effects of rapid thermal annealing parameters on crystal ion slicing-fabricated LiTaO ₃ thin film. 2021 , 127, 1	1
282	Shining Light on the Structure of Lead Halide Perovskite Nanocrystals. 2021 , 3, 845-861	8
281	High-Temperature p-Orbital Half-Metallicity and Out-of-Plane Piezoelectricity in a GaN Monolayer Induced by Superhalogens. 2021 , 125, 10027-10033	2
280	Enhanced Electromechanical Response and Thermal Stability of 0.93(Na _{1/2} Bi _{1/2})TiO ₃ -0.07BaTiO ₃ Through Aerosol Deposition of Base Metal Electrodes. 2021 , 8, 2100309	1
279	Mechanical control of electrocaloric response in epitaxial ferroelectric thin films. 2021 , 216, 59-67	8
278	A density functional theory study of the structural, electronic, and optical properties of XGaO ₃ (X = V, Nb) perovskites for optoelectronic applications. 2021 , 20, 1484-1495	1
277	Birefringence of orthorhombic DyScO ₃ : Toward a terahertz quarter-wave plate. 2021 , 118, 223506	1

- 276 Control of polarization in bulk ferroelectrics by mechanical dislocation imprint. *Science*, **2021**, 372, 961-964 24
- 275 Thickness dependence of dielectric and piezoelectric properties from the surface layer effect of BaTiO₃-based ceramics. **2021**, 47, 17262-17267 6
- 274 Designed Giant Room-Temperature Electrocaloric Effects in Metal-Free Organic Perovskite [MDABCO](NH₄)I₃ by PhaseField Simulations. **2021**, 31, 2104393 6
- 273 Growth, Properties and Applications of BiNaTiO Ferroelectric Nanomaterials. **2021**, 11, 3
- 272 Strain-Engineered Nano-Ferroelectrics for High-Efficiency Piezocatalytic Overall Water Splitting. **2021**, 60, 16019-16026 24
- 271 Emerging van der Waals ferroelectrics: Unique properties and novel devices. **2021**, 8, 021316 9
- 270 Proton-induced achiral structural transition at 180° domain wall in ferroelectrics. **2021**, 176, 681-689
- 269 Strain-Engineered Nano-Ferroelectrics for High-Efficiency Piezocatalytic Overall Water Splitting. **2021**, 133, 16155-16162 3
- 268 Wide-Range Epitaxial Strain Control of Electrical and Magnetic Properties in High-Quality SrRuO₃ Films. **2021**, 3, 2712-2719 6
- 267 Hybrid System Combining Two-Dimensional Materials and Ferroelectrics and Its Application in Photodetection. **2021**, 14
- 266 monitoring of epitaxial ferroelectric thin-film growth. **2021**, 33, 4
- 265 Detection of Subsurface, Nanometer-Scale Crystallographic Defects by Nonlinear Light Scattering and Localization. **2021**, 9, 2002252 0
- 264 Superelastic oxide micropillars enabled by surface tension-modulated 90° domain switching with excellent fatigue resistance. **2021**, 118, 4
- 263 Temperature and initial polarization dependences of the electrooptic coefficient of BaTiO₃ crystal film. **2021**, 11, 2730 1
- 262 A Barium Titanate-on-Oxide Insulator Optoelectronics Platform. **2021**, 33, e2101128 3
- 261 Analyses of Substrate-Dependent Broadband Microwave (10 GHz) Dielectric Properties of Pulsed Laser Deposited Ba_{0.5}Sr_{0.5}TiO₃ Films. **2021**, 11, 852
- 260 Periodic Polarization Waves in a Strained, Highly Polar Ultrathin SrTiO₃. **2021**, 21, 6274-6281 4
- 259 (001)-oriented BiFeO₃ films integrated on Si with enhanced electrical performances. **2021**, 104, 6373 0

258	A review of ultra-thin ferroelectric films. 2021 , 33,	2
257	Hybrid molecular beam epitaxy growth of BaTiO ₃ films. 2021 , 39, 040404	4
256	Control of Domain States in Rhombohedral Lead Zirconate Titanate Films via Misfit Strains and Surface Charges. 2100386	0
255	Ultra-thin ferroelectrics. 2021 , 145, 100622	12
254	Metal (Pt)/ferroelectric (SrBi ₂ Ta ₂ O ₉)/insulator (La ₂ O ₃)/semiconductor (Si), MFIS structures for nonvolatile memory applications. 2021 , 119, 063505	0
253	Electrocaloric Performance of Multilayer Ceramic Chips: Effect of Geometric Structure Induced Internal Stress. 2021 , 13, 38508-38516	0
252	Achieving an ultra-high capacitive energy density in ferroelectric films consisting of superfine columnar nanograins. 2021 , 39, 81-88	18
251	Novel synthesis approach for "stubborn" metals and metal oxides. 2021 , 118,	6
250	Asymmetric ferroelectricity by design in atomic-layer superlattices with broken inversion symmetry. 2021 , 104,	0
249	Purely one-dimensional ferroelectricity and antiferroelectricity from van der Waals niobium oxide trihalides. 2021 , 7,	2
248	Strain-induced band gap tuning in flexible ferroelectric/mica thin films. 2021 , 731, 138741	
247	First-principles study of the quasi-one-dimensional organic-inorganic hybrid perovskites (MV)A ₃ Cl ₂ (MV=methylviologen; A=Bi,Sb). 2021 , 104,	1
246	Emergent properties at oxide interfaces controlled by ferroelectric polarization. 2021 , 7,	1
245	Theoretical study on the tunable electronic band structure of CsPbCl/CsPbBr halide perovskite heterostructure driven by ferroelectric polarization modulation. 2021 , 597, 233-241	11
244	Effect of low temperature structural phase transitions in BaTiO ₃ on electrical transport through a metal-ferroelectric-metal multilayer of AuCr/BaTiO ₃ /Nb:SrTiO ₃ . 2021 , 33,	
243	Flexoelectric nanodomains in rare-earth iron garnet thin films under strain gradient. 2021 , 2,	3
242	Asymmetric Character of the Ferroelectric Phase Transition and Charged Domain Walls in a Hybrid Improper Ferroelectric. 2100434	1
241	Metal-Insulator Transition via Ion Irradiation in Epitaxial La _{0.7} Sr _{0.3} MnO ₃ Thin Films. 2021 , 15, 2100278	1

240	Recent advances in molecular ferroelectrics.	2
239	High-Temperature and Flexible Piezoelectric Sensors for Lamb-Wave-Based Structural Health Monitoring. 2021 , 13, 47764-47772	3
238	Ferroelectric phase transitions induced by a strain gradient. 2021 , 3,	1
237	Highly precise multi-cathode pulsed-DC sputtering employing digital processing -application to layer-by-layer synthesis of cubic (Er _{0.1} Y _{0.9}) ₂ Zr ₂ O ₇ thin film-	1
236	Design, synthesis, microstructure and electrical properties of thermal-strained PZT films. 2021 , 41, 5512-5518	
235	Pressure effect on the formation kinetics of ferroelectric domain structure under first order phase transitions. 2021 , 424, 132942	3
234	(111)-oriented Sn-doped BaTiO ₃ epitaxial thin films for ultrahigh energy density capacitors. 2021 , 47, 26856-26862	3
233	Macrodomain structure formed in (Sr _{0.7} Bi _{0.2} 2 _{0.1})TiO ₃ -modified Bi _{0.5} Na _{0.4} K _{0.1} TiO ₃ thin film. 2021 , 47, 26955-26962	0
232	Flexoelectric-boosted piezoelectricity of BaTiO ₃ @SrTiO ₃ core-shell nanostructure determined by multiscale simulations for flexible energy harvesters. 2021 , 89, 106469	4
231	An atomistic modelling investigation of the defect chemistry of SrTiO ₃ and its Ruddlesden-Popper phases, Sr _{n+1} Ti _n O _{3n+1} (n = 1B). 2021 , 303, 122523	3
230	Imprint phenomenon of ferroelectric switching characteristics in BaTiO ₃ /PbTiO ₃ multilayer thin films. 2022 , 891, 162088	0
229	Deposition-rate-dependent ferroelectric properties of epitaxially grown BaTiO ₃ thin films. 2022 , 145, 111516	1
228	Oxygen vacancy induced phase and conductivity transition of epitaxial BaTiO ₃ films directly grown on Ge (001) without surface passivation. 2021 , 129, 045302	0
227	Phase diagram and dielectric properties of orientation-dependent PbZr _{0.52} Ti _{0.48} O ₃ epitaxial films. 2021 , 70, 127701-127701	
226	Two-dimensional multiferroic FeCl with room temperature ferromagnetism and tunable magnetic anisotropy via ferroelectricity.	4
225	Strain tuning of negative capacitance in epitaxial PZT thin films. 2021 , 70, 187701-187701	
224	Monitoring the role of site chemistry on the formation energy of perovskites via deep learning analysis of Hirshfeld surfaces. 2021 , 9, 11153-11162	1
223	Ferroelectricity in Ultrathin-Film Capacitors. 265-230	11

222	Simple Method to Obtain Large-Size Single-Crystalline Oxide Sheets. 2020 , 30, 2001236	14
221	Theory of Ferroelectricity and Size Effects in Thin Films. 2010 , 205-231	1
220	Inorganic/Organic Photorefractive Hybrids. 2016 , 223-247	4
219	Trends in Ferroelectric/Piezoelectric Ceramics. 2008 , 553-569	2
218	Thin-Film Formation by Pulsed-Laser Deposition and Laser-Induced Evaporation. 2011 , 489-531	4
217	Ultraviolet Raman Spectroscopy of Nanoscale Ferroelectric Thin Films and Superlattices. 2012 , 587-624	2
216	Study of low temperature-dependent structural, dielectric, and ferroelectric properties of $\text{Ba}_x\text{Sr}(1-x)\text{TiO}_3$ ($x = 0.5, 0.6, 0.7$) ceramics. 2020 , 31, 10446-10459	6
215	Oxygen vacancy enhanced ferroelectricity in BTO:SRO nanocomposite films. 2020 , 199, 9-18	6
214	Tunable, room-temperature multiferroic Fe-BaTiO ₃ vertically aligned nanocomposites with perpendicular magnetic anisotropy. 2020 , 11, 100083	13
213	Uncharacteristic second order martensitic transformation in metals via epitaxial stress fields. 2020 , 127, 045107	2
212	Structural, magnetic and dielectric properties in 3d-5d based SrFe ₂ O thin films. 2020 , 32, 505001	2
211	A unified approach for the calculation of in-plane dielectric constant of films with interdigitated electrodes. 2020 , 29, 115039	2
210	Strain-tuned properties of hybrid improper ferroelectric superlattices through first-principles calculations and machine learning. 2020 , 101,	2
209	Goldstone-like phonon modes in a (111)-strained perovskite. 2018 , 2,	11
208	Strain-induced tetragonal distortions and multiferroic properties in polycrystalline $\text{Sr}_{1-x}\text{Ba}_x\text{MnO}_3$ ($x=0.43\text{--}0.45$) perovskites. 2018 , 2,	5
207	Electrically controlled switching of the magnetization state in multiferroic BaTiO ₃ /CoFe submicrometer structures. 2018 , 2,	7
206	Volatile two-dimensional electron gas in ultrathin BaTiO ₃ films. 2018 , 2,	4
205	Acoustic confinement phenomena in oxide multifunctional nanophononic devices. 2018 , 2,	5

204	Ultrathin Ni nanowires embedded in SrTiO ₃ : Vertical epitaxy, strain relaxation mechanisms, and solid-state amorphization. 2018 , 2,	13
203	Hybrid polar state in epitaxial (111) PbSc _{0.5} Nb _{0.5} O ₃ relaxor ferroelectric films. 2019 , 3,	0
202	Oxygen-vacancy tuning of magnetism in SrTi _{0.75} Fe _{0.125} Co _{0.125} O ₃ perovskite. 2019 , 3,	1
201	Mechanisms of enhanced thermal stability of polarization in lead-free (Bi _{1/2} Na _{1/2}) _{0.94} Ba _{0.06} TiO ₃ /ZnO ceramic composites. 2019 , 3,	18
200	Nanoscale magnetization inhomogeneity within single phase nanopillars. 2019 , 3,	3
199	Strain tuning of plasma frequency in vanadate, niobate, and molybdate perovskite oxides. 2019 , 3,	8
198	Hidden structural transition in epitaxial Ca _{0.5} Sr _{0.5} IrO ₃ /SrTiO ₃ thin film. 2019 , 3,	1
197	Quasi-one-dimensional ferroelectricity and piezoelectricity in WOX ₄ halogens. 2019 , 3,	9
196	Tuning the metal-insulator transition in epitaxial SrVO ₃ films by uniaxial strain. 2019 , 3,	10
195	Enhancement of magnetic properties in compressively strained PrVO ₃ thin films. 2019 , 3,	2
194	Thickness and strain dependence of piezoelectric coefficient in BaTiO ₃ thin films. 2020 , 4,	18
193	Evolution of ferroelastic domain walls during phase transitions in barium titanate nanoparticles. 2020 , 4,	3
192	Giant polarization in super-tetragonal thin films through interphase strain. <i>Science</i> , 2018 , 361, 494-497 33,3	121
191	Sputtered-Growth of High-Temperature Seed-Layer Assisted EGa ₂ O ₃ Thin Film on Silicon-Substrate for Cost-Effective Solar-Blind Photodetector Application. 2020 , 9, 065013	9
190	Growth, spectroscopic properties and crystal field analysis of Cr ³⁺ doped GdScO ₃ crystal. 2019 , 9, 4218	9
189	Strain Engineering of Epitaxial Oxide Heterostructures Beyond Substrate Limitations.	1
188	Influences of Zn and Mn ions co-dopants on the optical and ferroelectric properties of BaTiO ₃ thin films. 2012 , 31, 193-196	2
187	Molecular Dynamics Simulation of the Strain-polarization Coupling in Ba-TiO ₃ Ferroelectrics. 2011 , 25, 1247-1251	1

186	Structural and Magnetic Properties of LaFeO ₃ -BaTiO ₃ Solid Solutions. 2009 , 14, 117-119	5
185	Effect of Stress Engineering on the Electrical Properties of BaTiO ₃ Thin Film. 2011 , 50, 09NA03	3
184	Strain-Induced Electrical Properties of Lead Zirconate Titanate Thin Films on a Si wafer with Controlled Oxide Electrode Structure. 2012 , 51, 09LA13	2
183	Measurement of Barium Ion Displacement Near Surface in a Barium Titanate Nanoparticle by Scanning Transmission Electron Microscopy. 2018 , 48, 27-32	6
182	Piezoelectric nanogenerator based on flexible PDMSBiMgFeCeO ₆ composites for sound detection and biomechanical energy harvesting.	4
181	Enhancement of piezoelectricity in spin-coated Bi _{1/2} Na _{1/2} TiO ₃ -BaTiO ₃ epitaxial films by strain engineering.	2
180	High-entropy ceramics: Review of principles, production and applications. 2021 , 146, 100644	32
179	The equivalence of thermodynamic potentials for ferroelectric thin films. 2021 , 130, 144103	
178	Self-Powered High-Responsivity Photodetectors Enhanced by the Pyro-Phototronic Effect Based on a BaTiO/GaN Heterojunction. 2021 , 21, 8808-8816	11
177	Perovskites for Supercapacitors. 2021 , 131-185	0
176	Composition dependencies of crystal structure and electrical properties of epitaxial tetragonal (Bi, Na)TiO ₃ BaTiO ₃ films grown on (100)cSrRuO ₃ /(100)SrTiO ₃ substrates by pulsed laser depositions. 2021 , 130, 134102	1
175	Epitaxial ferroelectric interfacial devices. 2021 , 8, 041308	3
174	Optical sum-frequency generation and Ferroelectric-like Switching in Si-O Polar Structures. 2009 ,	
173	Synthesis, Processing, and Manufacturing of Components, Devices, and Systems. 2011 , 109-158	1
172	Strain Effect and Transport Properties of Fe ₂ VSi Thin Films. 2011 , 35, 260-263	
171	Magnetolectric properties of quantum paraelectric EuTiO ₃ materials on the strain effect. 2012 , 61, 097702	3
170	Unconventional Structure in BaTiO ₃ Thin Film Grown on (110)SrTiO ₃ Substrate. 2013 , 55, 290-295	
169	Integration of Multiferroic BiFeO ₃ Thin Films into Modern Microelectronics. 403-441	

168 Stress Effect on Thin Films. 27-70

167 Molecular dynamics study of epitaxial compressive strain influence on the radiation resistance of BaTiO₃ ferroelectrics. **2014**, 63, 246101

166 Post-Annealed Effects on Surface Topography of Eu_{0.5}Ba_{0.5}TiO₃ Epitaxial Thin Films. **2015**, 05, 165-171

165 Unusual enhancement of multiferroicity in YMn₂Ti_xO₅ due to ferroelectrically active TiO₆ oxygen octahedral units. **2015**, 117, 17D923

164 Ferroelectric Nanostructures. **2017**, 97-139

163 Interfacial Stress Occured with Formation of CoFe₂O₄ Nanopillars in BaTiO₃ Films. **2017**, 137, 135-140

162 Polarization switching behavior of one-axis-oriented lead zirconate titanate films fabricated on metal oxide nanosheet layer. **2017**, 56, 10PF10

161 Comparative study of multiferroic properties of PbTi_{0.5}Fe_{0.5}O₃ thin films grown on various substrates. **2017**, 43, 15939-15945

160 Metal Oxide Nano-coating on the Surface of Nano-particles by Chemical Solution Deposition. **2018**, 57, 471-478

159 -**2019**, 21-30

158 Single-scan interferometric second harmonic generation microscopy using a kHz phase-scanner. **2019**, 27, 38435-38450

157 Second harmonic generation in ferroelectric Ba₂EuFeNb₄O₁₅-based epitaxial thin films. **2020**, 10, 1323

156 Strain game revisited for complex oxide thin films: Substrate-film thermal expansion mismatch in PbTiO₃. **2020**, 4,

155 Multiferroic heterostructures for spintronics. **2021**, 6,

154 Research progress and prospects of photocatalytic devices with perovskite ferroelectric semiconductors. **2020**, 69, 127706

153 Phase field simulation of misfit strain manipulating domain structure and ferroelectric properties in PbZr_(1-x)Ti_xO₃ thin films. **2020**, 69, 127801

152 Strain Control of Domain Structures in Ferroelectric Thin Films: Applications of Phase-Field Method. **2020**, 1213-1230

151 Novel Ferroelectric Gate Field-Effect Transistors (FeFETs); Controlled Polarization-Type FeFETs. **2020**, 147-174

150	Fabrication and applications of flexible inorganic ferroelectric thin films. 2020 , 69, 217708	0
149	Unconventional crystal-field splitting in noncentrosymmetric BaTiO ₃ thin films. 2020 , 4,	0
148	Synthesis of Ba _{1-x} Sr _x TiO ₃ (x = 0.3) Ceramic Powders via Sol-Gel Method: Structural, Microstructure, Thermal Conductivity, and Compressive Strength Properties. 2100106	2
147	Development of digitally processed DC reactive sputtering and its application to the synthesis of (Er _{0.1} Y _{0.9}) ₂ SiO ₅ layered crystalline thin film. 2021 , 130, 185301	1
146	Interplay of domain structure and phase transitions: theory, experiment and functionality. 2021 , 34,	2
145	Band alignment engineering of a Ruddlesden-Popper perovskite-based heterostructure constructed using Cs ₂ SnI ₂ Cl ₂ and In ₂ Se ₃ : The effects of ferroelectric polarization switching and electric fields. 2021 , 119, 182903	4
144	Appendix B Material-Substrate Combinations Tables. 2007 , 373-384	
143	Self-assembled vertically aligned nanocomposite systems integrated on silicon substrate: Progress and future perspectives. 2022 , 40, 010802	2
142	Functionalities enhancement by an anisotropic strain competition. 2021 , 583, 264-277	
141	Abrupt orthorhombic relaxation in compressively strained ultrathin SrRuO ₃ films. 2021 , 5,	2
140	Tuning the Band Gaps of Oxide and Halide Perovskite Compounds via Biaxial Strain in All Directions. 2021 , 125, 25951-25958	0
139	Highly Flexible Freestanding BaTiO ₃ -CoFe ₂ O ₄ Heteroepitaxial Nanostructure Self-Assembled with Room-Temperature Multiferroicity. 2021 , e2104213	1
138	Stable polar oxynitrides through epitaxial strain. 2021 , 5,	0
137	Distortion control of (1-x)Ba(Hf,Ti)O ₃ -x(Ba,Ca)TiO ₃ piezoelectric ceramics to improved piezoelectric properties and related Curie temperature. 2021 , 162811	0
136	Atomic-Scale Tunable Flexoelectric Couplings in Oxide Multiferroics. 2021 , 21, 9601-9608	0
135	Abnormal Electromechanical Property of Nonlinearly Graded Lead-Free Ferroelectric Thin Films. 2021 , 2100370	1
134	Atomic-scale understanding of enhanced polarization of highly strained nanoscale columnar PbTiO ₃ . 2021 , 104,	0
133	In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. 2021 , 12, 6784	5

132	Polarization-Induced Internal Electric Field to Manipulate Piezo-Photocatalytic and Ferro-Photoelectrochemical Performance in Bismuth Ferrite Nanofibers.	
131	Boltzmann vs. Non-Boltzmann (non-Linear) Thermometry - Yb 3+-Er 3+ Activated Dual-Mode Thermometer and Phase Transition Sensor Via Second Harmonic Generation.	
130	Polarization-induced internal electric field to manipulate piezo-photocatalytic and ferro-photoelectrochemical performance in bismuth ferrite nanofibers. 2022 , 93, 106852	4
129	Atomistic Engineering of Phonons in Functional Oxide Heterostructures.. 2022 , e2103403	3
128	Signatures of enhanced out-of-plane polarization in asymmetric BaTiO superlattices integrated on silicon.. 2022 , 13, 265	1
127	Inorganic dielectric materials for energy storage applications: a review. 2022 , 55, 183002	4
126	Electrostatically Driven Polarization Flop and strain-induced Curvature in free-standing Ferroelectric Superlattices.. 2022 , e2106826	1
125	Strain and orientation engineering in ABOperovskite oxide thin films.. 2022 ,	3
124	Thermal, Microstructural, Magnetic, and Optical Studies for La _{0.7} M _{0.3} CoO ₃ (M = Ca, Pb) Cobaltites for Potential Magneto-optical Applications. 2022 , 35, 603-613	0
123	Magnetotransport of thin film Sr _{1-x} La _x CuO ₂ on (110) DyScO ₃ .	0
122	Achieving a Record-High Capacitive Energy Density on Si with Columnar Nanograined Ferroelectric Films.. 2022 ,	1
121	Properties of self-oxidized single crystalline perovskite N:BaTiO ₃ oxynitrides epitaxial thin films.	
120	Epitaxial strains dependent reorientation of oxygen octahedral tilting axis in manganite films.	0
119	Ion Implantation Caused Defects and Their Effects on LiTaO ₃ Crystal Exfoliation.	0
118	Synthesizing Superior Flexible Oxide Perovskite Ceramic Nanofibers by Precisely Controlling Crystal Nucleation and Growth.. 2022 , 18, e2106500	3
117	Modeling of Ferroelectric Oxide Perovskites: From First to Second Principles. 2022 , 13,	2
116	Interface Design and Engineering in Al Matrix Composite with Low Cte and High Strength Reinforced by Barium Strontium Titanate Particles.	
115	High energy storage, structure evolution and dielectric properties of complex perovskite solid solution (1-x) NaNbO _{3-x} Bi (Zn _{2/3} Nb _{1/3}) O ₃ . 1	0

114	Strain Engineering: A Pathway for Tunable Functionalities of Perovskite Metal Oxide Films.. 2022 , 12,	1
113	Controlling Resistance Switching Performances of Hf 0.5 Zr 0.5 O 2 Films by Substrate Stress and Potential in Neuromorphic Computing. 2100244	1
112	Controlling of lattice strains for crack-free and strong ferroelectric barium titanate films by post-thermal treatment.. 2022 , 12, 5363	
111	Van der Waals force-induced intralayer ferroelectric-to-antiferroelectric transition via interlayer sliding in bilayer group-IV monochalcogenides. 2022 , 8,	4
110	Strain Engineering of Energy Storage Performance in Relaxor Ferroelectric Thin Film Capacitors. 2100324	2
109	Strain Engineering: A Boosting Strategy for Photocatalysis.. 2022 , e2200868	5
108	Perovskite Oxide Ferroelectric Thin Films. 2101409	1
107	Thin-film Ferroelectrics.. 2022 , e2108841	3
106	Interface design and engineering in Al matrix composite with low CTE and high strength reinforced by barium strontium titanate particles. 2022 , 103512	0
105	Boltzmann vs. non-Boltzmann (non-linear) thermometry - Yb ³⁺ -Er ³⁺ activated dual-mode thermometer and phase transition sensor via second harmonic generation. 2022 , 906, 164329	1
104	Controllable electrical, magnetoelectric and optical properties of BiFeO ₃ via domain engineering. 2022 , 127, 100943	4
103	Interface engineering in ferroelectrics: From films to bulks. 2022 , 909, 164735	0
102	Account of Structural, Theoretical, and Photovoltaic Properties of ABO ₃ Oxide Perovskites Photoanode-Based Dye-Sensitized Solar Cells. 2022 , 6, 2100792	2
101	TopoTEM: A Python Package for Quantifying and Visualizing Scanning Transmission Electron Microscopy Data of Polar Topologies.. 2022 , 1-9	1
100	Ferroelectricity and Piezoelectric Response of (Sc,Y)N/(Al,Ga,In)N Monolayer Alternating Stacked Structures by First-Principles Calculations. 2200079	0
99	Scanning probe microscopy of epitaxial oxide thin films. 2022 , 331-367	
98	Interfaces. 2022 , 231-266	
97	Strain engineering during epitaxial growth of oxides. 2022 , 159-197	

96	Novel Functionality in Switchable Polar Materials. 2200146	
95	Experimental search for high-performance ferroelectric tunnel junctions guided by machine learning.	0
94	A theoretical study on tetragonal BaTiO ₃ modified by surface co-doping for photocatalytic overall water splitting. 2022 ,	0
93	Nanoscale Activation Energy Mapping and Leveraging for Accelerating Ferroelectric Domain Nucleation and Growth. 2101389	
92	Synthesis of a New Ferroelectric Relaxor Based on a Combination of Antiferroelectric and Paraelectric Systems.. 2022 ,	0
91	Influence of pressure on the kinetics of ferroelectric phase transition in BaTiO ₃ . 2022 , 599, 127436	0
90	Chemical Pressure Effect on Structural and Physical Properties of 15R-SrVO ₂ .2N _{0.6} with Anion-Vacancy Order. 2022 , 91,	
89	Ferroelectric thin films: performance modulation and application.	1
88	Enabling ultra-low-voltage switching in BaTiO ₃ .	4
87	Bringing some bulk into ferroelectric devices.	1
86	Highly heterogeneous epitaxy of flexoelectric BaTiO ₃ -membrane on Ge. 2022 , 13,	1
85	Response to Comment on "Improper molecular ferroelectrics with simultaneous ultrahigh pyroelectricity and figures of merit" 2022 , 8,	
84	The technique to symmetrize domain switching hysteresis loops in LiNbO ₃ domain-wall nanodevices with improved polarization retention. 2022 , 120, 243505	1
83	Multilevel polarization switching in ferroelectric thin films. 2022 , 13,	3
82	Ferroelectric BaTiO ₃ Based Multi-Effects Coupled Materials and Devices. 2200190	0
81	Atomic and Electronic Manipulation of Robust Ferroelectric Polymorphs. 2202633	1
80	Electrocaloric response modulated by misfit strain in different oriented epitaxial ferroelectric thin films. 2022 , 111808	0
79	Complex oxides for brain-inspired computing: A review. 2203352	3

- 78 Studies on the physical properties of $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ ($x = 0, 0.04, 0.08, 0.12, 0.16, 0.20$) synthesized using solid state ceramic route. **2022**,
- 77 Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. **2022**, 5, 1999-2014 0
- 76 Ferroelectricity induced by the absorption of water molecules on double helix SnIP.
- 75 Two-dimensional In_2Se_3 : A rising advanced material for ferroelectric data storage. 2
- 74 A Landau-Devonshire analysis of strain effects on ferroelectric $\text{Al}_{1-x}\text{Sc}_x\text{N}$. **2022**, 121, 042902 3
- 73 Intrinsic flexoelectricity of van der Waals epitaxial thin films. **2022**, 106, 2
- 72 Enhanced oxygen evolution reaction by stacking single-crystalline freestanding SrRuO_3 . **2022**, 317, 121781 3
- 71 Structural stability of orthorhombic DyScO_3 under extreme conditions of pressure and temperature. **2022**, 106, 1
- 70 Local Ionic Displacements and Polarization at the Paraelectric-Ferroelectric Heterointerface: Effect of Octahedral Distortion. 2200897
- 69 First-Principles Study of Ferroelectric and Optical Properties in Derivatives of Thiourea. **2022**, 126, 13920-13928
- 68 The negative dielectric permittivity of polycrystalline barium titanate nanofilms under high-strength kHz-AC fields. **2022**, 111939
- 67 Strain-induced ferroelectricity and piezoelectricity in centrosymmetric binary oxides. **2022**, 106, 1
- 66 BTO-Coupled CIGS Solar Cells with High Performances. **2022**, 15, 5883 1
- 65 Analysis and Modeling of Current Mismatch in Negative Capacitance Field-Effect Transistor. **2022**, 69, 5337-5344 0
- 64 Relationship between distortion of crystal structure and dielectric properties of complex perovskite oxide $\text{Ba}(\text{Co,Zn})_{1/3}\text{Nb}_{2/3}\text{O}_3$ thin films. **2022**, 42, 6518-6526 0
- 63 Electrical manipulation of magnetization in magnetic heterostructures with perpendicular anisotropy. **2022**, 562, 169753
- 62 Improved multiferroic in EuTiO_3 films by interphase strain engineering. **2022**, 107796 0
- 61 Reversibly Controlled Ternary Polar States and Ferroelectric Bias Promoted by Boosting Square-Tensile-Strain. 2205825 1

60	Effect of pressure on electrical and optical properties of metal doped TiO ₂ . 2022 , 133, 112875	0
59	Supercritical CO ₂ -induced anti-nanoconfinement effect to obtain novel 2D structures.	0
58	Perovskite Structured Materials: Synthesis, Structure, Physical Properties and Applications.	0
57	Enhanced polarization and abnormal flexural deformation in bent freestanding perovskite oxides. 2022 , 13,	3
56	Lattice distortion embedded core-shell nanoparticle through epitaxial growth barium titanate shell on the strontium titanate core with enhanced dielectric response. 2022 , 5, 2631-2641	2
55	Simultaneously with lower permittivity and higher tunability achieved in Ba _{0.5} Sr _{0.5} TiO ₃ -Mg ₂ SiO ₄ -MgO composite ceramics prepared by spark plasma sintering.	0
54	CsPbI ₃ lead and CsSnI ₃ lead-free perovskite materials for solar cell device.	0
53	Uniaxial strain induced anisotropic bandgap engineering in freestanding BiFeO ₃ films. 2022 , 10, 091110	0
52	Polarization Evolution in Morphology-Engineered Freestanding Single-Crystalline BaTiO ₃ Membranes. 2022 , 126, 16369-16376	1
51	Dynamic Control of Piezoelectricity Enhancement via Modulation of the Bulk Photovoltaic Effect in a BiFeO ₃ Thin Film. 2200785	0
50	Vapor-Induced Conversion of a Centrosymmetric Organic-Inorganic Hybrid Crystal into a Proton-Conducting Second-Harmonic-Generation-Active Material. 2022 , 61, 15638-15644	0
49	Electric field control of photoluminescence response in lanthanide doped ferroelectric materials: A brief review. 2022 , 598, 152-158	0
48	Unusual electric polarization behavior in elemental quasi-two-dimensional allotropes of selenium. 2022 , 6,	0
47	Atomically engineered cobaltite layers for robust ferromagnetism. 2022 , 8,	0
46	Strain related new sciences and devices in low-dimensional binary oxides. 2022 , 104, 107917	1
45	Anomalous Lattice Evolution-Mediated Electrical Properties in Transparent KNN-Based Lead-Free Ferroelectric Films.	0
44	Strain engineering of ferroelectric topologies prepared on conventional SrTiO ₃ substrates buffered with REScO ₃ layers. 2022 , 118530	0
43	Microstructure-Dependent Thermal Stability of Super-Tetragonal Nanocomposite Films through In Situ TEM/EELS Study.	0

42	Effects of Sn doping on piezoelectric power generation and energy density of flexible BaTiO ₃ thin films. 2023 , 295, 127091	0
41	Self-stabilization of the equilibrium state in ferroelectric thin films. 2023 , 613, 155891	0
40	Significant Suppression of Cracks in Freestanding Perovskite Oxide Flexible Sheets Using a Capping Oxide Layer.	1
39	Interface Engineering and Device Applications of 2D Ultrathin Film/Ferroelectric Copolymer P(VDF-TrFE).	0
38	Lead-Free MDABCO-NH ₄ I ₃ Perovskite Crystals Embedded in Electrospun Nanofibers. 2022 , 15, 8397	1
37	Preparation of Barium Titanate Nanocoated Silica Nanoparticles by Chemical Solution Deposition. 2022 , 69, 503-507	0
36	Characterization of electro-optic coefficients r ₁₃ , r ₂₃ and r ₃₃ in single crystalline BaTiO ₃ thin films. 2023 , 13, 152	0
35	Hidden variable in the electrocaloric effect of ferroics. 2022 , 6,	0
34	Pr ³⁺ -doped perovskite niobate ceramics towards improving performance of optical temperature sensor by second harmonic generation (SHG) combined with lanthanide luminescence. 2023 ,	0
33	Ab Initio Theoretical Study of DyScO ₃ at High Pressure. 2023 , 13, 165	0
32	Atomic Origins of Enhanced Ferroelectricity in Nanocolumnar PbTiO ₃ /PbO Composite Thin Films. 2203201	0
31	Enhanced optical and thermal conductivity properties of barium titanate ceramic via strontium doping for thermo-optical applications. 2023 , 55,	1
30	Artificial Synapse Based on Vertically Aligned Nanocomposite Ferroelectric Thin Films. 2023 , 1-1	1
29	Pressure-thermal hysteresis phenomena in BaTiO ₃ upon phase transition. 2023 , 361, 115072	0
28	Effect of Biaxial Misfit Strain on Properties of Ferroelectric Double Gate Negative Capacitance Transistors. 2023 , 0	0
27	Regulation of the electron concentration distribution in TiO ₂ /BaTiO ₃ photodetector. 2023 , 158, 107369	0
26	Interface-related phenomena in epitaxial complex oxide ferroics across different thin film platforms: opportunities and challenges. 2023 , 10, 1060-1086	0
25	The joint impact of crystal-cell thickness and biaxial ([110]) strain on the ferroelectricity of KNbO ₃ in bulk/thin-film form. 2023 , 159, 107398	0

- 24 Chemical ordering effects on martensitic transformations in Mg-Sc alloys. **2023**, 249, 118854 ○
- 23 Strain Engineering to Boost Piezocatalytic Activity of BaTiO₃. **2023**, 15, ○
- 22 Heteroepitaxial Control of Fermi Liquid, Hund Metal, and Mott Insulator Phases in Single-Atomic-Layer Ruthenates. 2208833 ○
- 21 Molecularly Thin BaTiO₃ Nanosheets with Stable Ferroelectric Response. **2023**, 9, ○
- 20 Ferroelectric field effect transistors for electronics and optoelectronics. **2023**, 10, 011310 ○
- 19 Material strategies to enhance the performance of piezoelectric energy harvesters based on lead-free materials. **2023**, 33, 053001 ○
- 18 Anomalous Optical Properties of KTN:Li Ferroelectric Supercrystals. **2023**, 13, 899 ○
- 17 Intersecting multiaxial domain walls in plastic ferroelectric crystal films. **2023**, 7, ○
- 16 Ferroelectric Thin Films for Oxide Electronics. **2023**, 5, 1314-1334 ○
- 15 Fatigue-free dielectric and piezoelectric response in single-crystal BaTiO₃ tuned by dislocation imprint. **2023**, 122, 112901 ○
- 14 Structural Engineering of H_{0.5}Z_{0.5}O₂-Based Ferroelectric Tunneling Junction for Fast-Speed and Low-Power Artificial Synapses. 2201247 ○
- 13 Stoichiometric Control and Optical Properties of BaTiO₃ Thin Films Grown by Hybrid MBE. **2023**, 10, ○
- 12 Manipulate the Magnetic and Electronic States in NiCo₂O₄ Films through Protonation. **2023**, 170660 ○
- 11 Photoinduced control of ferroelectricity in hybrid-improper ferroelectric superlattices. **2023**, 107, ○
- 10 Study of relaxation kinetics in PVDF interconnected nanodots using piezo force microscopy. **2023**, 34, ○
- 9 Controlling the Polarization in Ferroelectric PZT Films via the Epitaxial Growth Conditions. ○
- 8 Light-Controlled Magnetoelastic Effects in Ni/BaTiO₃ Heterostructures. **2023**, 15, 18391-18401 ○
- 7 Two-dimensional ferroelectricity in a single-element bismuth monolayer. ○

- 6 Advances in the large-scale production, fabrication, stability, and lifetime considerations of electronic materials for clean energy applications. **2023**, 27-60
- 5 Synergism of Freeze-Drying and CAI to Obtain Narrowly Dispersed BaTiO₃ Nanoparticles: A Step towards Commercialization.
- 4 Emerging ferroelectricity and piezoelectric energy harvesting properties in lead-free zinc titanate nanocrystals.
- 3 Topological phases in polar oxide nanostructures. **2023**, 95,
- 2 First principles calculation to investigate the effect of Mn substitution on Cu site in CeCu₃Mn_xV₄O₁₂ (x = 0, 1, 2 and 3) system. **2023**, 13, 12973-12981
- 1 Controllable tuning of ferroelectric switching via the lattice in crystallographically engineered molecular ferroelectrics. **2023**, 133,