

# S Pamir Alpay

## List of Publications by Year in descending order

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5,790  
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161  
docs citations

161  
times ranked

5225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous Iron Sulfide for Highly Efficient Electrocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 13604-13607.	6.6	288
2	Phase diagrams and dielectric response of epitaxial barium strontium titanate films: A theoretical analysis. <i>Journal of Applied Physics</i> , 2002, 91, 9288-9296.	1.1	242
3	Dielectric properties in heteroepitaxial Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> thin films: Effect of internal stresses and dislocation-type defects. <i>Applied Physics Letters</i> , 2000, 77, 1695-1697.	1.5	237
4	Magnitude of the intrinsic electrocaloric effect in ferroelectric perovskite thin films at high electric fields. <i>Applied Physics Letters</i> , 2007, 90, 252909.	1.5	194
5	Influence of mechanical boundary conditions on the electrocaloric properties of ferroelectric thin films. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	185
6	Thermodynamics of polydomain heterostructures. III. Domain stability map. <i>Journal of Applied Physics</i> , 1998, 83, 4714-4723.	1.1	165
7	Can interface dislocations degrade ferroelectric properties?. <i>Applied Physics Letters</i> , 2004, 85, 2044-2046.	1.5	165
8	Next-generation electrocaloric and pyroelectric materials for solid-state electrothermal energy interconversion. <i>MRS Bulletin</i> , 2014, 39, 1099-1111.	1.7	155
9	Thickness dependence of structural and electrical properties in epitaxial lead zirconate titanate films. <i>Journal of Applied Physics</i> , 1999, 86, 595-602.	1.1	144
10	Challenges and opportunities for multi-functional oxide thin films for voltage tunable radio frequency/microwave components. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	137
11	Optimization of the tunability of barium strontium titanate films via epitaxial stresses. <i>Journal of Applied Physics</i> , 2003, 93, 504-511.	1.1	135
12	Misfit dislocations in nanoscale ferroelectric heterostructures. <i>Applied Physics Letters</i> , 2005, 86, 192910.	1.5	130
13	Dependence of dielectric properties on internal stresses in epitaxial barium strontium titanate thin films. <i>Applied Physics Letters</i> , 2001, 78, 2354-2356.	1.5	121
14	Role of substrate on the dielectric and piezoelectric behavior of epitaxial lead magnesium niobate-lead titanate relaxor thin films. <i>Applied Physics Letters</i> , 2000, 77, 438-440.	1.5	103
15	Mesoporous Manganese Oxide Catalyzed Aerobic Oxidative Coupling of Anilines To Aromatic Azo Compounds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2171-2175.	7.2	102
16	Reduced Graphene Oxide Supported Nickel–Manganese–Cobalt Spinel Ternary Oxide Nanocomposites and Their Chemically Converted Sulfide Nanocomposites as Efficient Electrocatalysts for Alkaline Water Splitting. <i>ACS Catalysis</i> , 2017, 7, 819-832.	5.5	101
17	Strain relaxation during in situ growth of SrTiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2003, 83, 4592-4594.	1.5	98
18	Effect of mechanical constraint on the dielectric and piezoelectric behavior of epitaxial Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> (90%)–PbTiO <sub>3</sub> (10%) relaxor thin films. <i>Applied Physics Letters</i> , 1999, 75, 4183-4185.	1.5	96

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19	Effect of the electrode layer on the polydomain structure of epitaxial PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> thin films. Journal of Applied Physics, 1999, 85, 3271-3277.	1.1	86
20	Three-domain architecture of stress-free epitaxial ferroelectric films. Journal of Applied Physics, 2001, 89, 553-556.	1.1	85
21	Dielectric properties of MgO-doped compositionally graded multilayer barium strontium titanate films. Applied Physics Letters, 2008, 92, 072906.	1.5	81
22	Structural characteristics of ferroelectric phase transformations in single-domain epitaxial films. Journal of Applied Physics, 2004, 95, 8118-8123.	1.1	79
23	Phase coexistence near a morphotropic phase boundary in Sm-doped BiFeO <sub>3</sub> films. Applied Physics Letters, 2010, 97, .	1.5	77
24	Band gap tuning in GaN through equibiaxial in-plane strains. Applied Physics Letters, 2010, 96, .	1.5	76
25	Synthesis, characterization, and photocatalytic properties of ZnO/(La,Sr)CoO <sub>3</sub> composite nanorod arrays. Journal of Materials Chemistry, 2009, 19, 970.	6.7	75
26	Microwave dielectric properties of graded barium strontium titanate films. Applied Physics Letters, 2008, 92, 182906.	1.5	68
27	Polarization coupling in ferroelectric multilayers. Physical Review B, 2009, 79, .	1.1	67
28	Dielectric response and tunability of a dielectric-paraelectric composite. Applied Physics Letters, 2008, 93, 102908.	1.5	66
29	Film thickness versus misfit strain phase diagrams for epitaxial $\text{PbTiO}_3$ ferroelectric films. Physical Review B, 2008, 78, .	1.1	62
30	Insight into point defects and impurities in titanium from first principles. Npj Computational Materials, 2018, 4, .	3.5	62
31	Resistivity of V <sub>2</sub> O <sub>3</sub> thin films deposited on a-plane (110) and c-plane (001) sapphire by pulsed laser deposition. Applied Physics Letters, 2008, 92, .	1.5	55
32	Strain engineered barium strontium titanate for tunable thin film resonators. Applied Physics Letters, 2014, 104, .	1.5	54
33	Nucleation of stress-induced martensites in a Ti/Mo-based alloy. Journal of Materials Science, 2005, 40, 2833-2836.	1.7	53
34	Temperature dependent structural, elastic, and polar properties of ferroelectric polyvinylidene fluoride (PVDF) and trifluoroethylene (TrFE) copolymers. Journal of Materials Chemistry C, 2015, 3, 8389-8396.	2.7	51
35	Asymmetric hysteresis loops and smearing of the dielectric anomaly at the transition temperature due to space charges in ferroelectric thin films. Journal of Applied Physics, 2010, 108, .	1.1	49
36	Topological phase transformations and intrinsic size effects in ferroelectric nanoparticles. Nanoscale, 2017, 9, 1616-1624.	2.8	49

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37	The role of thermally-induced internal stresses on the tunability of textured barium strontium titanate films. <i>Applied Physics Letters</i> , 2004, 85, 985-987.	1.5	48
38	Mesoporous Manganese Oxide Catalyzed Aerobic Oxidative Coupling of Anilines To Aromatic Azo Compounds. <i>Angewandte Chemie</i> , 2016, 128, 2211-2215.	1.6	47
39	Pyroelectric properties of barium strontium titanate films: Effect of thermal stresses. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	45
40	Stress-induced polarization-graded ferroelectrics. <i>Applied Physics Letters</i> , 2002, 81, 1068-1070.	1.5	44
41	Imprint in ferroelectric materials due to space charges: A theoretical analysis. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	44
42	Electronic and Magnetic Properties of Lanthanum and Strontium Doped Bismuth Ferrite: A First-Principles Study. <i>Scientific Reports</i> , 2019, 9, 194.	1.6	42
43	Dielectric tunability of graded barium strontium titanate multilayers: Effect of thermal strains. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	41
44	Internal magnetostatic potentials of magnetization-graded ferromagnetic materials. <i>Applied Physics Letters</i> , 2007, 90, 062502.	1.5	40
45	Enhanced electrocaloric and pyroelectric response from ferroelectric multilayers. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	40
46	Large piezoelectric strains from polarization graded ferroelectrics. <i>Applied Physics Letters</i> , 2006, 89, 142913.	1.5	39
47	Graphene Supported Single Atom Transition Metal Catalysts for Methane Activation. <i>ChemCatChem</i> , 2018, 10, 3229-3235.	1.8	39
48	Electrothermal properties of perovskite ferroelectric films. <i>Journal of Materials Science</i> , 2009, 44, 5263-5273.	1.7	38
49	Threading dislocation generation in epitaxial (Ba,Sr) TiO <sub>3</sub> films grown on (001) LaAlO <sub>3</sub> by pulsed laser deposition. <i>Applied Physics Letters</i> , 2004, 84, 1742-1744.	1.5	35
50	Misfit strain phase diagrams of epitaxial PMN $\epsilon$ -PT films. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	35
51	Defect microstructures in epitaxial PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> films grown on (001) SrTiO <sub>3</sub> by pulsed laser deposition. <i>Journal of Materials Science</i> , 2006, 41, 697-707.	1.7	34
52	Pyroelectric response of lead zirconate titanate thin films on silicon: Effect of thermal stresses. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	34
53	Mesoporous cobalt/manganese oxide: a highly selective bifunctional catalyst for amine $\epsilon$ -imine transformations. <i>Green Chemistry</i> , 2018, 20, 3180-3185.	4.6	34
54	Stress induced monoclinic phase in epitaxial BaTiO <sub>3</sub> on MgO. <i>Journal of Applied Physics</i> , 2006, 99, 104103.	1.1	32

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55	Contribution of space charges to the polarization of ferroelectric superlattices and its effect on dielectric properties. <i>Physical Review B</i> , 2010, 82, .	1.1	31
56	Atomistic Insights into the Hydrogen Oxidation Reaction of Palladium-Ceria Bifunctional Catalysts for Anion-Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2021, 11, 2561-2571.	5.5	30
57	Growth of $V_{2}O_{3}$ thin films on <i>a</i> -plane (110) and <i>c</i> -plane (001) sapphire via pulsed-laser deposition. <i>Journal of Materials Research</i> , 2007, 22, 2825-2831.	1.2	29
58	Perovskite ferroelectrics and relaxor-ferroelectric solid solutions with large intrinsic electrocaloric response over broad temperature ranges. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4763-4769.	2.7	29
59	Theory of Giant Electromechanical Response from Ferroelectric Bilayers with Polydomain Structures due to Interlayer and Interdomain Coupling. <i>Physical Review Letters</i> , 2010, 105, 197601.	2.9	28
60	Enhanced dielectric properties from barium strontium titanate films with strontium titanate buffer layers. <i>Journal of Applied Physics</i> , 2013, 114, 164107.	1.1	28
61	Acoustic Detection of Phase Transitions at the Nanoscale. <i>Advanced Functional Materials</i> , 2016, 26, 478-486.	7.8	28
62	Are ferroelectric multilayers capacitors in series?. <i>Journal of Materials Science</i> , 2016, 51, 499-505.	1.7	28
63	Novel Al-X alloys with improved hardness. <i>Materials and Design</i> , 2020, 192, 108699.	3.3	28
64	Compositionally graded ferroelectric multilayers for frequency agile tunable devices. <i>Journal of Materials Science</i> , 2009, 44, 5364-5374.	1.7	26
65	Strain engineering of piezoelectric properties of strontium titanate thin films. <i>Journal of Materials Science</i> , 2014, 49, 5978-5985.	1.7	26
66	Domain engineering in compositionally graded ferroelectric films for enhanced dielectric response and tunability. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	25
67	Strain induced variations in band offsets and built-in electric fields in InGaN/GaN multiple quantum wells. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	24
68	Effect of strain on tunability in Ba <sub>0.60</sub> Sr <sub>0.40</sub> TiO <sub>3</sub> thin films on Pt/Si substrates. <i>Journal of Applied Physics</i> , 2006, 99, 014108.	1.1	23
69	Effect of operating temperature and film thickness on the pyroelectric response of ferroelectric materials. <i>Applied Physics Letters</i> , 2004, 84, 4959-4961.	1.5	22
70	Theoretical analysis of the crystal structure, band-gap energy, polarization, and piezoelectric properties of ZnO-BeO solid solutions. <i>Physical Review B</i> , 2011, 84, .	1.1	22
71	Phase diagrams, dielectric response, and piezoelectric properties of epitaxial ultrathin (001) lead zirconate titanate films under anisotropic misfit strains. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	21
72	Strong dependence of dielectric properties on electrical boundary conditions and interfaces in ferroelectric superlattices. <i>Applied Physics Letters</i> , 2014, 104, 022906.	1.5	21

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73	STRONG DEGRADATION OF PHYSICAL PROPERTIES AND FORMATION OF A DEAD LAYER IN FERROELECTRIC FILMS DUE TO INTERFACIAL DISLOCATIONS. <i>Integrated Ferroelectrics</i> , 2005, 71, 67-80.	0.3	20
74	Combined intrinsic elastocaloric and electrocaloric properties of ferroelectrics. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	20
75	Surface phase diagrams of titanium in Oxygen, Nitrogen and Hydrogen environments: A first principles analysis. <i>Surface Science</i> , 2018, 677, 18-25.	0.8	20
76	Bulk-like dielectric properties from metallo-organic solution-“deposited SrTiO <sub>3</sub> films on Pt-coated Si substrates. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	19
77	Electromechanical control of polarization vortex ordering in an interacting ferroelectric-dielectric composite dimer. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	19
78	Hysteresis Offset and Dielectric Response of Compositionally Graded Ferroelectric Materials. <i>Integrated Ferroelectrics</i> , 2003, 58, 1281-1291.	0.3	18
79	Tailoring dielectric properties of ferroelectric-dielectric multilayers. <i>Applied Physics Letters</i> , 2014, 104, 022901.	1.5	18
80	A new method for achieving enhanced dielectric response over a wide temperature range. <i>Scientific Reports</i> , 2015, 5, 15144.	1.6	18
81	Accounting for the various contributions to pyroelectricity in lead zirconate titanate thin films. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	18
82	Electrocaloric properties of epitaxial strontium titanate films. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	17
83	Soft phonon mode dynamics in Aurivillius-type structures. <i>Physical Review B</i> , 2017, 96, .	1.1	17
84	Metastable vortex-like polarization textures in ferroelectric nanoparticles of different shapes and sizes. <i>Journal of Applied Physics</i> , 2018, 124, 064104.	1.1	17
85	Role of heteroepitaxial misfit strains on the band offsets of Zn <sub>1-x</sub> BexO/ZnO quantum wells: A first-principles analysis. <i>Journal of Applied Physics</i> , 2012, 111, 113714.	1.1	16
86	Polarization rotation in Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> by isovalent doping at the fluorite sublattice. <i>Physical Review B</i> , 2019, 99, .	1.1	16
87	Ferroelastic domains in bilayered ferroelectric thin films. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	14
88	Amplitudon and phason modes of electrocaloric energy interconversion. <i>Npj Computational Materials</i> , 2016, 2, .	3.5	14
89	Base metal alloys with self-healing native conductive oxides for electrical contact materials. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	13
90	Atomistic origins of Guinier-Preston zone formation and morphology in Al-Cu and Al-Ag alloys from first principles. <i>Scripta Materialia</i> , 2019, 162, 235-240.	2.6	13

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91	Piezoelectric and dielectric tunabilities of ultra-thin ferroelectric heterostructures. Journal of Materials Research, 2006, 21, 1600-1606.	1.2	12
92	Flexocaloric response of epitaxial ferroelectric films. Journal of Applied Physics, 2018, 123, .	1.1	12
93	Combining inverse and conventional pyroelectricity in antiferroelectric thin films for energy conversion. Journal of Materials Chemistry C, 2018, 6, 9828-9834.	2.7	12
94	A Portable Power Concept Based on Combustion and Pyroelectric Energy Conversion. Cell Reports Physical Science, 2020, 1, 100075.	2.8	12
95	DIELECTRIC RESPONSE OF VARIABLE THICKNESS $Ba_{0.6}Sr_{0.4}TiO_3$ FILMS FOR PROPERTY-SPECIFIC DEVICE APPLICATIONS. Integrated Ferroelectrics, 2008, 100, 36-47.	0.3	11
96	First-principles modeling of binary layered topological insulators: Structural optimization and exchange-correlation functionals. Physical Review B, 2020, 101, .	1.1	11
97	Magnetically Doped Molybdenum Disulfide Layers for Enhanced Carbon Dioxide Capture. ACS Applied Materials & Interfaces, 2022, 14, 27799-27813.	4.0	11
98	Recent developments in ferroelectric nanostructures and multilayers. Journal of Materials Science, 2009, 44, 5021-5024.	1.7	10
99	Aspects of the Electrocaloric Behavior of Ferroelectric Thin Films: A Review of the Predictions of the Landau-Ginzburg Theory. Integrated Ferroelectrics, 2011, 125, 168-175.	0.3	10
100	Electrical and tribological properties of a Ni-18%Ru alloy for contact applications. Journal of Materials Science, 2011, 46, 6563-6570.	1.7	10
101	Effect of elastic domains on electromechanical response of epitaxial ferroelectric films with a three-domain architecture. Journal of Advanced Ceramics, 2013, 2, 1-10.	8.9	10
102	Pyroelectric and dielectric properties of ferroelectric films with interposed dielectric buffer layers. Applied Physics Letters, 2014, 105, .	1.5	10
103	Microstructure effects in braze joints formed between Ag/W electrical contacts and Sn-coated Cu using Cu-Ag-P filler metal. Journal of Materials Science, 2015, 50, 324-333.	1.7	10
104	Solidification microstructures in $Ag_3Sn-Cu_3Sn$ pseudo-binary alloys. Journal of Materials Science, 2016, 51, 6474-6487.	1.7	10
105	Optical response of nickel-based superalloy Inconel-718 for applications in additive manufacturing. Journal of Applied Physics, 2020, 127, .	1.1	10
106	Electronic and optical properties of zinc based hybrid organic-inorganic compounds. Materials Research Express, 2020, 7, 035701.	0.8	10
107	Low-voltage ferroelectric-paraelectric superlattices as gate materials for field-effect transistors. Journal of Materials Science, 2016, 51, 487-498.	1.7	9
108	Cation ordering in epitaxial lead zirconate titanate films. Applied Physics Letters, 2008, 93, 262903.	1.5	8

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109	Microstructural stability, defect structures and deformation mechanisms in a Ag <sub>3</sub> Sn/Cu <sub>3</sub> Sn alloy. <i>Journal of Materials Science</i> , 2017, 52, 2944-2956.	1.7	8
110	Electrocaloric and pyroelectric properties of barium zirconate titanate. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	8
111	Polarization, piezoelectric properties, and elastic coefficients of In <sub>x</sub> Ga <sub>1-x</sub> N solid solutions from first principles. <i>Journal of Materials Science</i> , 2012, 47, 7587-7593.	1.7	7
112	Dielectric properties and resistive switching characteristics of lead zirconate titanate/hafnia heterostructures. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	7
113	First principles analysis of impurities in silicon carbide grain boundaries. <i>Acta Materialia</i> , 2021, 221, 117421.	3.8	7
114	Surface Degradation of Ag/W Circuit Breaker Contacts During Standardized UL Testing. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3251-3262.	1.2	6
115	Ferroelectric films on metal substrates: The role of thermal expansion mismatch on dielectric, piezoelectric, and pyroelectric properties. <i>Journal of Applied Physics</i> , 2019, 126, 134103.	1.1	6
116	Equilibrium Domain Structures of Epitaxial Perovskite Ferroelectric Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 474, 407.	0.1	5
117	Effect of Asymmetrical Interface Charges on the Hysteresis and Domain Configurations of Ferroelectric Thin Films. <i>Integrated Ferroelectrics</i> , 2011, 126, 142-154.	0.3	5
118	Switchable and tunable film bulk acoustic resonator fabricated using barium strontium titanate active layer and Ta <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> acoustic reflector. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	5
119	Surface localized magnetism in transition metal doped alumina. <i>Scientific Reports</i> , 2021, 11, 6410.	1.6	5
120	Surface charge mediated polar response in ferroelectric nanoparticles. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5
121	Influence of the Precursor Solution Molarity on the Dielectric Response of Chemical Solution Deposited Strontium Titanate Thin Films on Si. <i>Integrated Ferroelectrics</i> , 2011, 126, 7-16.	0.3	4
122	Influence of Octahedral Cation Distribution in Montmorillonite on Interlayer Hydrogen Counter-Ion Retention Strength via First-Principles Calculations. <i>Clays and Clay Minerals</i> , 2019, 67, 439-448.	0.6	4
123	Surface structure and energetics of low index facets of bismuth ferrite. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16400-16406.	1.3	4
124	Thermomechanical finite element simulation and correlation analysis for orthogonal cutting of normalized AISI 9310 steels. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 3337-3356.	1.5	4
125	Atomic configurations for materials research: A case study of some simple binary compounds. <i>AIP Advances</i> , 2021, 11, .	0.6	4
126	Strain-induced surface modalities in pnictogen chalcogenide topological insulators. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	4



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127	Effect of uniaxial stress fields on the domain selection of epitaxial ferroelectric films. <i>Ferroelectrics</i> , 1999, 221, 245-250.	0.3	3
128	POLARIZATION VARIATIONS DUE TO DISLOCATION CONFIGURATIONS IN HETEROEPITAXIAL FERROELECTRIC LAYERS. <i>Integrated Ferroelectrics</i> , 2006, 83, 67-80.	0.3	3
129	Polydomain Structure of Epitaxial $\text{PbTiO}_3$ films on MgO. <i>Materials Research Society Symposia Proceedings</i> , 1997, 493, 111.	0.1	2
130	Cellular Domain Architecture of Stress-free Epitaxial Ferroelectric Films. <i>Materials Research Society Symposia Proceedings</i> , 2000, 655, 431.	0.1	2
131	PYROELECTRIC PROPERTIES OF EPITAXIAL (001) BARIUM STRONTIUM TITANATE AS A FUNCTION OF SPACE CHARGE DENSITY. <i>Integrated Ferroelectrics</i> , 2010, 111, 80-87.	0.3	2
132	Extended Aging of Ag/W Circuit Breaker Contacts: Influence on Surface Structure, Electrical Properties, and UL Testing Performance. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 91-101.	1.2	2
133	Towards magnetic alumina: uncovering the roles of transition metal doping and electron hybridization in spin delocalization. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 245801.	0.7	2
134	Misfit Strain Driven Phase Transformations in Epitaxial Barium Strontium Titanate Films. <i>Materials Research Society Symposia Proceedings</i> , 2002, 718, 1.	0.1	1
135	ENHANCED DIELECTRIC RESPONSE AND TEMPERATURE INSENSITIVITY OF COMPOSITIONALLY STRATIFIED $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ THIN FILMS. <i>Integrated Ferroelectrics</i> , 2008, 100, 48-60.	0.3	1
136	Discontinuous precipitation of $\text{L}^2$ -Ru phase in $\text{Ni}_{48}\text{Ru}_{18}$ alloys. <i>Journal of Materials Science</i> , 2012, 47, 5701-5705.	1.7	1
137	Atomic layer adhesion of ferroelectric nanoparticles: a new approach to dielectric composites. <i>Journal of Materials Science</i> , 2020, 55, 16063-16073.	1.7	1
138	Ab Initio Study of Hydrostable Metal-Organic Frameworks for Postsynthetic Modification and Tuning toward Practical Applications. <i>ACS Omega</i> , 2022, 7, 7791-7805.	1.6	1
139	Matrix controlled structural phase transformations in embedded metallic nanoparticles. <i>Scripta Materialia</i> , 2022, 213, 114632.	2.6	1
140	Point defect induced incommensurate dipole moments in the $\text{KCa}_{10}\text{O}_{10}$ Dion-Jacobson layered perovskite. <i>Physical Review B</i> , 2021, 104, .		
141	The Stress State and Domain Structure of Epitaxial $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Films on (001) $\text{SrTiO}_3$ with and without $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ Electrode Layer. <i>Materials Research Society Symposia Proceedings</i> , 1998, 541, 357.	0.1	0
142	Epitaxial PMN-PT Relaxor Thin Films: Dependence of Dielectric and Piezoelectric Properties on Film Thickness. <i>Materials Research Society Symposia Proceedings</i> , 1999, 596, 505.	0.1	0
143	Hysteresis Offset in Stress Induced Polarization-Graded Ferroelectrics. <i>Materials Research Society Symposia Proceedings</i> , 2002, 748, 1.	0.1	0
144	Tuning the Tunability in Epitaxial Barium Strontium Titanate Film via Internal Stresses. <i>Materials Research Society Symposia Proceedings</i> , 2002, 748, 1.	0.1	0

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145	Thermodynamic Analysis of the Hysteresis Offsets from Polarization Graded Ferroelectric Materials. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
146	A Transmission Electron Microscopy Study of Dislocation Substructures in PLD-grown Epitaxial Films of (Ba,Sr)TiO <sub>3</sub> on (001) LaAlO <sub>3</sub> . Materials Research Society Symposia Proceedings, 2003, 784, 271.	0.1	0
147	Pyroelectric Properties of Ferroelectric Thin Films: Effect of Internal Stresses. Materials Research Society Symposia Proceedings, 2003, 784, 1091.	0.1	0
148	PHASE TRANSFORMATION CHARACTERISTICS OF FERROELECTRIC-PARAELECTRIC BILAYERS. Integrated Ferroelectrics, 2006, 83, 165-175.	0.3	0
149	Modeling of graded and multilayer ferroelectrics: Dielectric and piezoelectric response. , 2008, , .		0
150	Electrocaloric response of the ferroelectrics. , 2008, , .		0
151	PHASE TRANSFORMATION CHARACTERISTICS OF BARIUM STRONTIUM TITANATE FILMS ON ANISOTROPIC SUBSTRATES WITH (001)//(001) EPITAXY. Integrated Ferroelectrics, 2008, 101, 29-36.	0.3	0
152	LOW-TEMPERATURE MONOCLINIC PHASE IN EPITAXIAL (001) BARIUM TITANATE ON (001) CUBIC SUBSTRATES. Integrated Ferroelectrics, 2008, 101, 4-11.	0.3	0
153	An enabling material design to promote highly tunable, low loss, performance consistent BST thin films for tunable device applications. , 2008, , .		0
154	THE OPTICAL DIELECTRIC FUNCTION IN MONOLITHIC Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> FILMS. Integrated Ferroelectrics, 2010, 111, 27-36.	0.3	0
155	DESIGN AND SIMULATION OF TUNABLE KA BAND FILTERS WITH GRADED BARIUM STRONTIUM TITANATE (BST) VARACTORS. Integrated Ferroelectrics, 2010, 111, 50-58.	0.3	0
156	Mahjoub, Alpay, and Nagarajan Reply:. Physical Review Letters, 2011, 107, .	2.9	0
157	Acoustic Detection: Acoustic Detection of Phase Transitions at the Nanoscale (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlo 7.8		0