Igor Bdikin

List of Publications by Year in descending order

215 papers	5,444 citations	87843 38 h-index	110317 64 g-index
217 all docs	217 docs citations	217 times ranked	6431 citing authors

#	Article	IF	Citations
1	Ferroelectric Polymers PVDF and P(VDFâ€“TrFE) Films and Their Composites With Either Graphene or Graphene Oxide: Molecular Modeling and Experimental Observations. , 2022, , 483-494.		0
2	Re-orientation of graphoepitaxial fluorite films towards small-index crystallographic planes. , 2022, , .		1
3	Anatase titania as magnesium host in Mg ion rechargeable battery with magnesium perchlorate/ethylmagnesium bromide electrolytes. Journal of Materials Science, 2022, 57, 8442-8454.	1.7	3
4	Active catalytic species generated in situ in zirconia incorporated hydrogen storage material magnesium hydride. Journal of Magnesium and Alloys, 2022, 10, 786-796.	5.5	18
5	Immobilised rGO/TiO2 Nanocomposite for Multi-Cycle Removal of Methylene Blue Dye from an Aqueous Medium. Applied Sciences (Switzerland), 2022, 12, 385.	1.3	13
6	Interaction of zirconia with magnesium hydride and its influence on the hydrogen storage behavior of magnesium hydride. International Journal of Hydrogen Energy, 2022, 47, 21760-21771.	3.8	8
7	Elucidating Evidence for the In Situ Reduction of Graphene Oxide by Magnesium Hydride and the Consequence of Reduction on Hydrogen Storage. Catalysts, 2022, 12, 735.	1.6	6
8	Investigation on key properties of solution grown l-Leucine hydrobromide single crystal: A semi-organic NLO material. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114927.	1.7	13
9	Self-Assembly of Amyloid-Beta and Its Piezoelectric Properties. American Journal of Molecular Biology, 2021, 11, 1-14.	0.1	0
10	Flexible Piezoelectric Chitosan and Barium Titanate Biocomposite Films for Sensor Applications. European Journal of Inorganic Chemistry, 2021, 2021, 792-803.	1.0	18
11	Nanoscale Piezoelectric Properties and Phase Separation in Pure and La-Doped BiFeO3 Films Prepared by Solâ€“Gel Method. Materials, 2021, 14, 1694.	1.3	11
12	Protein-olive oil-in-water nanoemulsions as encapsulation materials for curcumin acting as anticancer agent towards MDA-MB-231 cells. Scientific Reports, 2021, 11, 9099.	1.6	21
13	Graphene-Based TiO2 Nanocomposite for Photocatalytic Degradation of Dyes in Aqueous Solution under Solar-Like Radiation. Applied Sciences (Switzerland), 2021, 11, 3966.	1.3	37
14	Nanoindentation and structural studies of MgO-doped congruent LiNbO3 single crystals. Materials Chemistry and Physics, 2021, 264, 124425.	2.0	6
15	Electrochemical behaviour of magnesium hydride-added titania anode for Li-ion battery. Electrochimica Acta, 2021, 394, 139142.	2.6	5
16	Processing mediated enhancement of ferroelectric and electrocaloric properties in Ba(Ti0.8Zr0.2)O3â€“(Ba0.7Ca0.3)TiO3 lead-free piezoelectrics. Journal of the European Ceramic Society, 2021, 41, 6424-6440.	2.8	9
17	Biomimetic Graphene/Spongin Scaffolds for Improved Osteoblasts Bioactivity via Dynamic Mechanical Stimulation. Macromolecular Bioscience, 2021, 22, 2100311.	2.1	3
18	Tilting of the top layer of graphoepitaxial metal-oxide multilayer thin film heterostructures. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	1

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19	Mechanical investigations on piezo-/ferrolectric maleic acid-doped triglycine sulphate single crystal using nanoindentation technique. Arabian Journal of Chemistry, 2020, 13, 1874-1889.	2.3	32
20	Ferroelectric Polymers PVDF and P(VDFâ€“TrFE) Films and Their Composites With Either Graphene or Graphene Oxide: Molecular Modeling and Experimental Observations. , 2020, , .		1
21	Investigations on key aspects of solution growth l-Alanine strontium chloride trihydrate single crystal for non-linear optical and photonic applications. Solid State Communications, 2020, 319, 114010.	0.9	8
22	3D Reduced Graphene Oxide Scaffolds with a Combinatorial Fibrous-Porous Architecture for Neural Tissue Engineering. ACS Applied Materials & Interfaces, 2020, 12, 38962-38975.	4.0	44
23	Instantaneous fibrillation of egg white proteome with ionic liquid and macromolecular crowding. Communications Materials, 2020, 1, .	2.9	7
24	Electrospinning of bioactive polycaprolactone-gelatin nanofibres with increased pore size for cartilage tissue engineering applications. Journal of Biomaterials Applications, 2020, 35, 471-484.	1.2	45
25	Chemical Changes of Graphene Oxide Thin Films Induced by Thermal Treatment under Vacuum Conditions. Coatings, 2020, 10, 113.	1.2	13
26	Preparation, Stability and Local Piezoelectrical Properties of P(VDF-TrFE)/Graphene Oxide Composite Fibers. Journal of Carbon Research, 2019, 5, 48.	1.4	4
27	Thermal vapor sulfurization of molybdenum layers. Thin Solid Films, 2019, 691, 137588.	0.8	0
28	Nanoengineered nickel/reduced graphene oxide composites: Control of interfacial nanostructure for tunable electrophysical properties. Applied Surface Science, 2019, 498, 143781.	3.1	3
29	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics. Journal of Advanced Dielectrics, 2019, 09, 1950016.	1.5	6
30	Mechanical characteristics of gallium sulfide crystals measured using micro- and nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 757, 101-106.	2.6	14
31	Crystal Structure and Strong Piezoelectricity of New Amino Acid Based Hybrid Crystals: [H-Î²-(3-Pyridyl)-Ala-OH][ClO₄] and [H-Î²-(4-Pyridyl)-Ala-OH][ClO₄]. Crystal Growth and Design, 2019, 19, 2583-2593.	1.4	8
32	Effect of Solution Conditions on the Properties of Solâ€“Gel Derived Potassium Sodium Niobate Thin Films on Platinized Sapphire Substrates. Nanomaterials, 2019, 9, 1600.	1.9	12
33	Strong impact of LiNbO3 fillers on local electromechanical and electrochemical properties of P(VDF-TrFe) polymer disclosed via scanning probe microscopy. Applied Surface Science, 2019, 470, 1093-1100.	3.1	7
34	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. ACS Applied Materials & Interfaces, 2018, 10, 10543-10551.	4.0	34
35	X-ray, dielectric, piezoelectric and optical analyses of a new nonlinear optical 8-hydroxyquinolinium hydrogen squarate crystal. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 12-23.	0.5	26
36	Glycine glutaric acid cocrystals: Morphological, optical, dielectric and mechanical properties via nanoindentation. Vacuum, 2018, 154, 90-100.	1.6	20

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37	A comparative study of key properties of glycine glycinium picrate (GGP) and glycinium picrate (GP): A combined experimental and quantum chemical approach. Journal of Saudi Chemical Society, 2018, 22, 352-362.	2.4	33
38	Strain-Mediated Substrate Effect on the Dielectric and Ferroelectric Response of Potassium Sodium Niobate Thin Films. Coatings, 2018, 8, 449.	1.2	11
39	Selective two-photon absorption in carbon dots: a piece of the photoluminescence emission puzzle. Nanoscale, 2018, 10, 12505-12514.	2.8	40
40	A comparative study of structural and electrical properties in lead-free BCZT ceramics: Influence of the synthesis method. Acta Materialia, 2018, 155, 331-342.	3.8	85
41	Ferroelectric PVDF films and graphene-based composites. Journal of Physics: Conference Series, 2018, 1053, 012043.	0.3	2
42	Three-dimensional graphoepitaxial growth of oxide films by pulsed laser deposition. Physical Review Materials, 2018, 2, .	0.9	6
43	Charge injection in large area multilayer graphene by ambient Kelvin probe force microscopy. Applied Materials Today, 2017, 8, 18-25.	2.3	11
44	Growth, crystal structure, Hirshfeld surface, optical, piezoelectric, dielectric and mechanical properties of bis(<scp>L</scp>-asparaginium hydrogensquarate) single crystal. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 347-359.	0.5	30
45	Role of chemical interaction between MgH 2 and TiO 2 additive on the hydrogen storage behavior of MgH 2. Applied Surface Science, 2017, 420, 740-745.	3.1	49
46	3D multiscale controlled micropatterning of lead-free piezoelectric electroceramics via Epoxy Gel Casting and lift-off. Journal of the European Ceramic Society, 2017, 37, 3079-3087.	2.8	4
47	Molecular modeling of the piezoelectric properties of ferroelectric composites containing polyvinylidene fluoride (PVDF) and either graphene or graphene oxide. Journal of Molecular Modeling, 2017, 23, 128.	0.8	21
48	Unique dielectric features of a ceramic-semiconductor nanocomposite MgNb2O6+ 0.25Zn0.5Cd0.5S. Applied Surface Science, 2017, 424, 127-131.	3.1	5
49	Enhanced local piezoelectric response in the erbium-doped ZnO nanostructures prepared by wet chemical synthesis. Journal of Asian Ceramic Societies, 2017, 5, 1-6.	1.0	3
50	An insight into the synthesis, crystal structure, geometrical modelling of crystal morphology, Hirshfeld surface analysis and characterization ofN-(4-methylbenzyl)benzamide single crystals. Journal of Applied Crystallography, 2017, 50, 1498-1511.	1.9	24
51	Investigations on crystal perfection, mechanical and thermo-electric properties of l -ornithine monohydrochloride single crystal: A promising material for nonlinear optical applications. Materials Chemistry and Physics, 2017, 200, 376-383.	2.0	11
52	Dehydrogenation Properties of Magnesium Hydride Loaded with Fe, Feâˆ'C, and Feâˆ'Mg Additives. ChemPhysChem, 2017, 18, 287-291.	1.0	16
53	Piezoelectricity in ribonucleosides and deoxynucleosides microcrystals via piezoresponse force microscopy. International Journal of Nanotechnology, 2016, 13, 891.	0.1	0
54	Impedance and Modulus Spectroscopy Characterization of Tb modified Bi0.8A0.1Pb0.1Fe0.9Ti0.1O3 Ceramics. Materials Research, 2016, 19, 1-8.	0.6	134

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55	Two step mechanochemical synthesis of Nb doped MgO rock salt nanoparticles and its application for hydrogen storage in MgH2. International Journal of Hydrogen Energy, 2016, 41, 11716-11722.	3.8	15
56	Structural, optical, thermal, mechanical and dielectric studies of Sulfamic acid single crystals: An influence of dysprosium (Dy3+) doping. Journal of Molecular Structure, 2016, 1119, 365-372.	1.8	27
57	Imprint effect in PZT thin films at compositions around the morphotropic phase boundary. Ferroelectrics, 2016, 498, 18-26.	0.3	4
58	Glycine nanostructures and domains in beta-glycine: computational modeling and PFM observations. Ferroelectrics, 2016, 496, 28-45.	0.3	9
59	Dielectric relaxation and ac conduction in multiferroic Bi0.8Gd0.1Pb0.1Fe0.9Ti0.1O3 ceramics: impedance spectroscopy analysis. Phase Transitions, 2016, 89, 1213-1224.	0.6	7
60	Scale dependence of the strain rate sensitivity of Twinning-Induced Plasticity steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 98-103.	2.6	4
61	Crystal structure, phase stoichiometry and chemical environment of MgxNbyOx+y nanoparticles and their impact on hydrogen storage in MgH2. International Journal of Hydrogen Energy, 2016, 41, 11709-11715.	3.8	26
62	Formation of Mgâ€“Nbâ€“O rock salt structures in a series of mechanochemically activated MgH2Â+ÂnNb2O5 (nÂ=Â0.083â€“1.50) mixtures. International Journal of Hydrogen Energy, 2016, 41, 2677-2688.	3.8	31
63	Formation of Mg_xNb_yO_{x+y} through the Mechanochemical Reaction of MgH₂ and Nb₂O₅, and Its Effect on the Hydrogenâ€Storage Behavior of MgH₂. ChemPhysChem, 2016, 17, 178-183.	1.0	28
64	Local piezoresponse and polarization switching in nucleobase thymine microcrystals. Journal of Applied Physics, 2015, 118, .	1.1	11
65	Lead-Free Relaxor Ferroelectric Na_{0.47}K_{0.47}Li_{0.06}Nb_{0.94}Sb_{0.06}O₃ Crystals for Optoelectronic Applications. Crystal Growth and Design, 2015, 15, 1852-1860.	4.1	16
66	A Study of the Physical Properties of Strontium Titanate Ceramics in the Temperature Range of 8 â€“ 295 K by the Method of Piezoresponse Force Microscopy. Metal Science and Heat Treatment, 2015, 56, 564-569.	0.2	3
67	Effect of Ni doping on structural and optical properties of Zn1â^'Ni O nanopowder synthesized via low cost sono-chemical method. Materials Research Bulletin, 2015, 70, 430-435.	2.7	14
68	Bioferroelectricity in Nanostructured Glycine and Thymine: Molecular Modeling and Ferroelectric Properties at the Nanoscale. Ferroelectrics, 2015, 475, 107-126.	0.3	16
69	Synthesis and characterization of reduced graphene oxide/spiky nickel nanocomposite for nanoelectronic applications. Journal of Materials Chemistry C, 2015, 3, 11516-11523.	2.7	35
70	Tip-induced domain structures and polarization switching in ferroelectric amino acid glycine. Journal of Applied Physics, 2015, 118, .	1.1	22
71	Effect of Composition on the Physical Properties at Nanoscale of PZT Thin Films. Ferroelectrics, 2014, 465, 106-114.	0.3	3
72	Stiff Diamond/Buckypaper Carbon Hybrids. ACS Applied Materials & Interfaces, 2014, 6, 22649-22654.	4.0	12

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73	Study of electrical and magnetic properties of Ba, La and Pb doped Bi1â^'xâ^'yDyxCyFe1â^'yTiyO3 perovskite ceramics. Solid State Communications, 2014, 180, 56-63.	0.9	4
74	Nanoindentation induced piezoelectricity in SrTiO3 single crystals. Scripta Materialia, 2014, 74, 76-79.	2.6	29
75	Growth and Nonlinear Optical Properties of Î²-Glycine Crystals Grown on Pt Substrates. Crystal Growth and Design, 2014, 14, 2831-2837.	1.4	42
76	FMR study of carbon nanotubes filled with Fe3O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 44-49.	1.0	16
77	Flux growth and effect of cobalt doping on dielectric, conductivity and relaxation behaviour of 0.91Pb[Zn_{1/3}Nb_{2/3}]O₃â€“0.09PbTiO₃crystals. CrystEngComm, 2014, 16, 9135-9142.	1.3	5
78	Local bias induced ferroelectricity in manganites with competing charge and orbital order states. Physical Chemistry Chemical Physics, 2014, 16, 4977-4981.	1.3	14
79	Flux growth of 0.94[Na_{0.5}K_{0.5}NbO₃]â€“0.06LiNbO₃piezo-/ferroelectric crystals for long duration and high temperature applications. CrystEngComm, 2014, 16, 7004.	1.3	20
80	Tuning heterogeneous poly(dopamine) structures and mechanics: in silico covalent cross-linking and thin film nanoindentation. Soft Matter, 2014, 10, 457-464.	1.2	55
81	Growth, structural and mechanical analysis of a single crystal of<scp>l</scp>-prolinium tartrate: a promising material for nonlinear optical applications. CrystEngComm, 2014, 16, 9245-9254.	1.3	42
82	Influence of Mg doping on dielectric and optical properties of ZnO nano-plates prepared by wet chemical method. Solid State Communications, 2014, 195, 74-79.	0.9	42
83	Ferroelectric nanofibers with an embedded optically nonlinear benzothiazole derivative. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	7
84	Impedance analysis of 0.5Ba(Zr0.2Ti0.8)O3â€“0.5(Ba0.7Ca0.3)TiO3 ceramics consolidated from micro-granules. Ceramics International, 2014, 40, 10593-10600.	2.3	92
85	Breakdown into nanoscale of graphene oxide: Confined hot spot atomic reduction and fragmentation. Scientific Reports, 2014, 4, 6735.	1.6	105
86	Local piezoelectricity in SrTiO3-BiTiO3 ceramics. Lithuanian Journal of Physics, 2014, 54, .	0.1	3
87	A Novel Low Cost Liquefied Petroleum Gas (LPG) Sensor Based on Activated Carbon for Room Temperature Sensing Application. Sensor Letters, 2014, 12, 24-30.	0.4	1
88	Molecular modeling of the piezoelectric effect in the ferroelectric polymer poly(vinylidene fluoride) (PVDF). Journal of Molecular Modeling, 2013, 19, 3591-3602.	0.8	78
89	Modeling of switching and piezoelectric phenomena in polyvinylidenefluoride (PVDF). , 2013, , .		2
90	Nucleation kinetics, growth, mechanical, thermal and optical characterization of sulphamic acid single crystal. CrystEngComm, 2013, 15, 10034.	1.3	26

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91	Study of polar and electrical properties of Hydroxyapatite: Modeling and data analysis. , 2013, , .		0
92	Enhanced ferroelectric and magnetic properties of perovskite structured Bi1â^'â^'Gd La Fe1â^'Ti O3 magnetoelectric ceramics. Journal of Physics and Chemistry of Solids, 2013, 74, 905-912.	1.9	16
93	Ferroelectric characterization of aligned barium titanate nanofibres. Journal Physics D: Applied Physics, 2013, 46, 105304.	1.3	23
94	Substrate decoration for improvement of current-carrying capabilities of YBa2Cu3Ox thin films. Physica C: Superconductivity and Its Applications, 2013, 486, 1-8.	0.6	7
95	Filling carbon nanotubes with magnetic particles. Journal of Materials Chemistry C, 2013, 1, 2860.	2.7	25
96	Impedance spectroscopy and piezoresponse force microscopy analysis of lead-free (1Ââ^'Âx) K0.5Na0.5NbO3Ââ^'ÂxLiNbO3 ceramics. Current Applied Physics, 2013, 13, 430-440.	1.1	31
97	Modeling of glycine polymorphic and switching properties. , 2013, , .		0
98	Thickness dependence of structure and piezoelectric properties at nanoscale of polycrystalline lead zirconate titanate thin films. Journal of Applied Physics, 2013, 113, 187206.	1.1	26
99	Thickness dependence of structure and piezoelectric properties at nanoscale of polycrystalline PZT thin films. , 2012, , .		0
100	Complex dielectric function in lead-free NKN films. , 2012, , .		1
101	Local Nanoelectromechanical Properties of Multiferroics Gd-Doped BiFeO3â€"BaTiO3 Solid Solution. Journal of Nanoscience and Nanotechnology, 2012, 12, 6639-6644.	0.9	2
102	Effect of the Grain Size on the Magnetic Phase Separation in La0.8Sr0.2MnO3 by Magnetic Force Microscopy. Microscopy and Microanalysis, 2012, 18, 101-102.	0.2	0
103	BioFerroelectricity: Diphenylalanine Peptide Nanotubes Computational Modeling and Ferroelectric Properties at the Nanoscale. Ferroelectrics, 2012, 440, 3-24.	0.3	47
104	Theoretical Prediction and Direct Observation of Metastable Non-Polar Regions in Domain Structure of Sn₂P₂S₆Ferroelectrics with Triple-Well Potential. Ferroelectrics, 2012, 438, 55-67.	0.3	7
105	Local piezoelectric activity of single poly(L-lactic acid) (PLLA) microfibers. Applied Physics A: Materials Science and Processing, 2012, 109, 51-55.	1.1	71
106	Femtosecond infrared laser annealing of ferroelectric PZT films on a metal substrate. , 2012, , .		0
107	Production and PFM Characterization of Barium Titanate Nanofibers. Ferroelectrics, 2012, 429, 48-55.	0.3	10
108	Improved magnetic and piezoresponse behavior of cobalt substituted BiFeO3 thin film. Thin Solid Films, 2012, 520, 6493-6498.	0.8	28

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109	Domain growth kinetics in La0.89Sr0.11MnO3 single crystal studied by piezoresponse force microscopy. Journal of Applied Physics, 2012, 112, 052019.	1.1	12
110	Local piezoelectric response of single poly(vinylidene fluoride) electrospun fibers. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2605-2609.	0.8	45
111	Structural depth profile and nanoscale piezoelectric properties of randomly oriented Pb(Zr_{0.50}Ti_{0.50})O₃ thin films. Journal Physics D: Applied Physics, 2012, 45, 215304.	1.3	9
112	Femtosecond Infrared Laser Annealing of PZT Films on a Metal Substrate. Ferroelectrics, 2012, 433, 164-169.	0.3	8
113	Polarization switching and patterning in self-assembled peptide tubular structures. Journal of Applied Physics, 2012, 111, .	1.1	41
114	The self-polarization effect in Pb(Zr0.50Ti0.50)O3 thin films with no preferential orientation. Materials Research Bulletin, 2012, 47, 3548-3551.	2.7	17
115	Evidence of ferroelectricity and phase transition in pressed diphenylalanine peptide nanotubes. Applied Physics Letters, 2012, 100, .	1.5	60
116	Piezoelectricity and Ferroelectricity in Biomaterials: From Proteins to Self-assembled Peptide Nanotubes. Nanomedicine and Nanotoxicology, 2012, , 187-211.	0.1	43
117	Ferroelectric-Paraelectric Phase Transition in Triglycine Sulphate via Piezoresponse Force Microscopy. Ferroelectrics, 2012, 426, 215-222.	0.3	13
118	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. Scientific Reports, 2012, 2, 682.	1.6	138
119	Structural, morphological and piezoresponse studies of Pr and Sc co-substituted BiFeO₃ ceramics. Journal Physics D: Applied Physics, 2012, 45, 055302.	1.3	71
120	Nanoscale Ferroelectricity in Crystalline Î³â€Glycine. Advanced Functional Materials, 2012, 22, 2996-3003.	7.8	119
121	Superferromagnetism and coercivity in Co-Al2O3 granular films with perpendicular anisotropy. Journal of Applied Physics, 2012, 111, 123915.	1.1	30
122	Magnetic properties of randomly oriented BaM, SrM, Co2Y, Co2Z and Co2W hexagonal ferrite fibres. Journal of the European Ceramic Society, 2012, 32, 905-913.	2.8	57
123	Selective mode launching in multimode UV-patterned channel waveguide in organic-inorganic hybrids. , 2011, , .		1
124	Imprint Behavior of Piezoelectric PZT Thin Films Deposited onto Cu-Coated Polymer Substrates. Ferroelectrics, 2011, 419, 103-108.	0.3	0
125	Nanoscale electromechanical properties of CaCu3Ti4O12 ceramics. Journal of Applied Physics, 2011, 110, .	1.1	37
126	Quasi-one-dimensional domain walls in ferroelectric ceramics: Evidence from domain dynamics and wall roughness measurements. Journal of Applied Physics, 2011, 110, .	1.1	33

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127	Production of Polar Î²-Glycine Nanofibers with Enhanced Nonlinear Optical and Piezoelectric Properties. Crystal Growth and Design, 2011, 11, 4288-4291.	1.4	48
128	Surface Domain Structures and Mesoscopic Phase Transition in Relaxor Ferroelectrics. Advanced Functional Materials, 2011, 21, 1977-1987.	7.8	113
129	Ferroelectric domain structure of PbZr0.35Ti0.65O3 single crystals by piezoresponse force microscopy. Journal of Applied Physics, 2011, 110, .	1.1	33
130	Local domain engineering in relaxor 0.77PbMg1/3Nb2/3O3-0.23PbSc1/2Nb1/2O3 single crystals. Journal of Applied Physics, 2011, 110, 052002.	1.1	12
131	Development of lead-free materials for piezoelectric energy harvesting. Materials Research Society Symposia Proceedings, 2011, 1325, 105.	0.1	4
132	FERROELECTRIC AND MAGNETIC PROPERTIES OF PEROVSKITE STRUCTURED Bi1-x-yGdxBayFe1-yTiyO3 MAGNETOELECTRIC CERAMICS. Journal of Advanced Dielectrics, 2011, 01, 257-267.	1.5	3
133	Ferroelectric and ferromagnetic properties of Gd-doped BiFeO3â€“BaTiO3 solid solution. Materials Chemistry and Physics, 2010, 119, 539-545.	2.0	57
134	Local Electromechanical Properties of CaCu₃Ti₄O₁₂ Ceramics. Materials Research Society Symposia Proceedings, 2010, 1255, 319.	0.1	5
135	Piezoresponse force microscopy studies of the triglycine sulfate-based nanofibers. Journal of Applied Physics, 2010, 108, .	1.1	15
136	Mapping Disorder in Polycrystalline Relaxors: A Piezoresponse Force Microscopy Approach. Materials, 2010, 3, 4860-4870.	1.3	16
137	Local piezoelectric properties of ZnO thin films prepared by RF-plasma-assisted pulsed-laser deposition method. Nanotechnology, 2010, 21, 235703.	1.3	54
138	Intercrystalline distal-effect on the afterglow phenomenon in photoluminescent SrAl₂O₄:Ce(III), Ln nanotube growth. Nanotechnology, 2010, 21, 325707.	1.3	10
139	Strong Piezoelectricity in Bioinspired Peptide Nanotubes. ACS Nano, 2010, 4, 610-614.	7.3	370
140	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. Nanoscale, 2010, 2, 700.	2.8	38
141	Piezoelectric PZT Thin Films on Flexible Copper-Coated Polymer Films. Materials Science Forum, 2010, 636-637, 392-397.	0.3	3
142	Preferred deposition of phospholipids onto ferroelectric P(VDF-TrFE) films via polarization patterning. Journal Physics D: Applied Physics, 2010, 43, 335301.	1.3	8
143	Local electromechanical properties of ZnO thin films and micro crystals. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	1
144	Temperature-driven phase transformation in self-assembled diphenylalanine peptide nanotubes. Journal Physics D: Applied Physics, 2010, 43, 462001.	1.3	88

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145	Locally induced charged states in La0.89Sr0.11MnO3 single crystals. Applied Physics Letters, 2009, 94, 222901.	1.5	31
146	Synthesis of polymer-based triglycine sulfate nanofibres by electrospinning. Journal Physics D: Applied Physics, 2009, 42, 205403.	1.3	3
147	Electromechanical Imaging and Spectroscopy of Ferroelectric and Piezoelectric Materials: State of the Art and Prospects for the Future. Journal of the American Ceramic Society, 2009, 92, 1629-1647.	1.9	287
148	Synthesis and structural characterization of highly ã€ˆ100ã€‰-oriented {100}-faceted nanocrystalline diamond films by microwave plasma chemical vapor deposition. Journal of Crystal Growth, 2009, 311, 2258-2264.	0.7	10
149	Effect of Gd substitution on the crystal structure and multiferroic properties of BiFeO3. Acta Materialia, 2009, 57, 5137-5145.	3.8	144
150	Development of Novel Multiferroic Composites Based on BaTiO3 and Hexagonal Ferrites. Materials Research Society Symposia Proceedings, 2009, 1161, 1061.	0.1	3
151	Crystal structure and magnetic properties of Bi0.8(Gd1â^'xBax)0.2FeO3(x= 0, 0.5, 1) multiferroics. Journal Physics D: Applied Physics, 2009, 42, 045418.	1.3	40
152	Microstructure and ferroelectric properties of solâ€“gel graded PZT (40/52/60) and (60/52/40) thin films. Ceramics International, 2008, 34, 1027-1030.	2.3	8
153	Dynamics of ferroelectric nanodomains in BaTiO₃epitaxial thin films via piezoresponse force microscopy. Nanotechnology, 2008, 19, 375703.	1.3	79
154	Crystal structure and multiferroic properties of Gd-substituted BiFeO3. Applied Physics Letters, 2008, 93, .	1.5	172
155	Room temperature surface piezoelectricity in SrTiO3 ceramics via piezoresponse force microscopy. Applied Physics Letters, 2008, 93, .	1.5	73
156	Domain dynamics in piezoresponse force spectroscopy: Quantitative deconvolution and hysteresis loop fine structure. Applied Physics Letters, 2008, 92, 182909.	1.5	28
157	Reliable Preparation of High Quality Superconducting Thin MgB2Films for Application. Journal of Physics: Conference Series, 2007, 61, 606-611.	0.3	1
158	Anomalous polarization inversion in ferroelectrics via scanning force microscopy. Nanotechnology, 2007, 18, 095502.	1.3	90
159	Nanoscale polarization patterning of ferroelectric Langmuirâ€“Blodgett P(VDF-TrFE) films. Journal Physics D: Applied Physics, 2007, 40, 4571-4577.	1.3	44
160	Effect of Zr/Ti ratio on the microstructure and ferroelectric properties of lead zirconate titanate thin films. Materials Chemistry and Physics, 2007, 102, 159-164.	2.0	43
161	Nanoscale characterization of polycrystalline ferroelectric materials for piezoelectric applications. Journal of Electroceramics, 2007, 19, 83-96.	0.8	50
162	Grain size effect and local disorder in polycrystalline relaxors via scanning probe microscopy. Journal Physics D: Applied Physics, 2007, 40, 7109-7112.	1.3	35

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