

Igor Bdikin

List of Publications by Year in descending order

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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	Strong Piezoelectricity in Bioinspired Peptide Nanotubes. ACS Nano, 2010, 4, 610-614.	7.3	370
2	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
3	Crystal structure and multiferroic properties of Gd-substituted BiFeO ₃ . Applied Physics Letters, 2008, 93, .	1.5	172
4	Effect of Gd substitution on the crystal structure and multiferroic properties of BiFeO ₃ . Acta Materialia, 2009, 57, 5137-5145.	3.8	144
5	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. Scientific Reports, 2012, 2, 682.	1.6	138
6	Impedance and Modulus Spectroscopy Characterization of Tb modified Bi _{0.8} A _{0.1} Pb _{0.1} Fe _{0.9} Ti _{0.1} O ₃ Ceramics. Materials Research, 2016, 19, 1-8.	0.6	134
7	Nanoscale Ferroelectricity in Crystalline β -Glycine. Advanced Functional Materials, 2012, 22, 2996-3003.	7.8	119
8	Surface Domain Structures and Mesoscopic Phase Transition in Relaxor Ferroelectrics. Advanced Functional Materials, 2011, 21, 1977-1987.	7.8	113
9	Breakdown into nanoscale of graphene oxide: Confined hot spot atomic reduction and fragmentation. Scientific Reports, 2014, 4, 6735.	1.6	105
10	Nanoscale domains and local piezoelectric hysteresis in Pb(Zn _{1/3} Nb _{2/3})O ₃ -4.5%PbTiO ₃ single crystals. Applied Physics Letters, 2003, 83, 4232-4234.	1.5	92
11	Impedance analysis of 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ â€“0.5(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics consolidated from micro-granules. Ceramics International, 2014, 40, 10593-10600.	2.3	92
12	Anomalous polarization inversion in ferroelectrics via scanning force microscopy. Nanotechnology, 2007, 18, 095502.	1.3	90
13	Temperature-driven phase transformation in self-assembled diphenylalanine peptide nanotubes. Journal Physics D: Applied Physics, 2010, 43, 462001.	1.3	88
14	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
15	Dynamics of ferroelectric nanodomains in BaTiO ₃ epitaxial thin films via piezoresponse force microscopy. Nanotechnology, 2008, 19, 375703.	1.3	79
16	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
17	Room temperature surface piezoelectricity in SrTiO ₃ ceramics via piezoresponse force microscopy. Applied Physics Letters, 2008, 93, .	1.5	73
18	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

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19	Structural, morphological and piezoresponse studies of Pr and Sc co-substituted BiFeO ₃ ceramics. Journal Physics D: Applied Physics, 2012, 45, 055302.	1.3	71
20	Evidence of ferroelectricity and phase transition in pressed diphenylalanine peptide nanotubes. Applied Physics Letters, 2012, 100, .	1.5	60
21	Ferroelectric and ferromagnetic properties of Gd-doped BiFeO ₃ –BaTiO ₃ solid solution. Materials Chemistry and Physics, 2010, 119, 539-545.	2.0	57
22	Magnetic properties of randomly oriented BaM, SrM, Co ₂ Y, Co ₂ Z and Co ₂ W hexagonal ferrite fibres. Journal of the European Ceramic Society, 2012, 32, 905-913.	2.8	57
23	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
24	Local piezoelectric properties of ZnO thin films prepared by RF-plasma-assisted pulsed-laser deposition method. Nanotechnology, 2010, 21, 235703.	1.3	54
25	Nanoscale characterization of polycrystalline ferroelectric materials for piezoelectric applications. Journal of Electroceramics, 2007, 19, 83-96.	0.8	50
26	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
27	Production of Polar β -Glycine Nanofibers with Enhanced Nonlinear Optical and Piezoelectric Properties. Crystal Growth and Design, 2011, 11, 4288-4291.	1.4	48
28	BioFerroelectricity: Diphenylalanine Peptide Nanotubes Computational Modeling and Ferroelectric Properties at the Nanoscale. Ferroelectrics, 2012, 440, 3-24.	0.3	47
29	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
30	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
31	Nanoscale polarization patterning of ferroelectric Langmuir–Blodgett P(VDF-TrFE) films. Journal Physics D: Applied Physics, 2007, 40, 4571-4577.	1.3	44
32	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
33	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
34	Piezoelectricity and Ferroelectricity in Biomaterials: From Proteins to Self-assembled Peptide Nanotubes. Nanomedicine and Nanotoxicology, 2012, , 187-211.	0.1	43
35	Growth and Nonlinear Optical Properties of β -Glycine Crystals Grown on Pt Substrates. Crystal Growth and Design, 2014, 14, 2831-2837.	1.4	42
36	Growth, structural and mechanical analysis of a single crystal of <i>l</i> -prolinium tartrate: a promising material for nonlinear optical applications. CrystEngComm, 2014, 16, 9245-9254.	1.3	42

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37	Influence of Mg doping on dielectric and optical properties of ZnO nano-plates prepared by wet chemical method. <i>Solid State Communications</i> , 2014, 195, 74-79.	0.9	42
38	Polarization switching and patterning in self-assembled peptide tubular structures. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	41
39	Crystal structure and magnetic properties of $\text{Bi}_{0.8}(\text{Gd}_{1-x}\text{Ba}_x)_0.2\text{FeO}_3$ ($x=0, 0.5, 1$) multiferroics. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 045418.	1.3	40
40	Selective two-photon absorption in carbon dots: a piece of the photoluminescence emission puzzle. <i>Nanoscale</i> , 2018, 10, 12505-12514.	2.8	40
41	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. <i>Nanoscale</i> , 2010, 2, 700.	2.8	38
42	Nanoscale electromechanical properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	37
43	Graphene-Based TiO_2 Nanocomposite for Photocatalytic Degradation of Dyes in Aqueous Solution under Solar-Like Radiation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3966.	1.3	37
44	Synthesis and characterization of reduced graphene oxide/spiky nickel nanocomposite for nanoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11516-11523.	2.7	35
45	Grain size effect and local disorder in polycrystalline relaxors via scanning probe microscopy. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7109-7112.	1.3	35
46	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10543-10551.	4.0	34
47	Thermally stable hydrogen compounds obtained under high pressure on the basis of carbon nanotubes and nanofibers. <i>JETP Letters</i> , 2004, 79, 226-230.	0.4	33
48	Quasi-one-dimensional domain walls in ferroelectric ceramics: Evidence from domain dynamics and wall roughness measurements. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	33
49	Ferroelectric domain structure of $\text{PbZr}_{0.35}\text{Ti}_{0.65}\text{O}_3$ single crystals by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	33
50	A comparative study of key properties of glycine glycinium picrate (GGP) and glycinium picrate (GP): A combined experimental and quantum chemical approach. <i>Journal of Saudi Chemical Society</i> , 2018, 22, 352-362.	2.4	33
51	Magnetic domains and twin structure of the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ single crystal. <i>Applied Physics Letters</i> , 2000, 77, 2376-2378.	1.5	32
52	Mechanical investigations on piezo-/ferroelectric maleic acid-doped triglycine sulphate single crystal using nanoindentation technique. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1874-1889.	2.3	32
53	Locally induced charged states in $\text{La}_{0.89}\text{Sr}_{0.11}\text{MnO}_3$ single crystals. <i>Applied Physics Letters</i> , 2009, 94, 222901.	1.5	31
54	Impedance spectroscopy and piezoresponse force microscopy analysis of lead-free $(1-x)\text{K}_0.5\text{Na}_0.5\text{NbO}_3-x\text{LiNbO}_3$ ceramics. <i>Current Applied Physics</i> , 2013, 13, 430-440.	1.1	31

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55	Formation of Mg ^x Nb ^y O _{x+y} rock salt structures in a series of mechanochemically activated MgH ₂ +Nb ₂ O ₅ (n=0.083-1.50) mixtures. International Journal of Hydrogen Energy, 2016, 41, 2677-2688.	3.8	31
56	Superferromagnetism and coercivity in Co-Al ₂ O ₃ granular films with perpendicular anisotropy. Journal of Applied Physics, 2012, 111, 123915.	1.1	30
57	Growth, crystal structure, Hirshfeld surface, optical, piezoelectric, dielectric and mechanical properties of bis(L-asparaginium hydrogensquarate) single crystal. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 347-359.	0.5	30
58	Nanoindentation induced piezoelectricity in SrTiO ₃ single crystals. Scripta Materialia, 2014, 74, 76-79.	2.6	29
59	Twinning of LaGaO ₃ single crystals. Journal of Applied Crystallography, 1993, 26, 71-76.	1.9	28
60	Superconducting MgB ₂ films obtained by magnetron sputtering. JETP Letters, 2001, 73, 557-561.	0.4	28
61	Domain dynamics in piezoresponse force spectroscopy: Quantitative deconvolution and hysteresis loop fine structure. Applied Physics Letters, 2008, 92, 182909.	1.5	28
62	Improved magnetic and piezoresponse behavior of cobalt substituted BiFeO ₃ thin film. Thin Solid Films, 2012, 520, 6493-6498.	0.8	28
63	Formation of Mg _x Nb _y O _{x+y} through the Mechanochemical Reaction of MgH ₂ and Nb ₂ O ₅ , and Its Effect on the Hydrogen Storage Behavior of MgH ₂ . ChemPhysChem, 2016, 17, 178-183.	1.0	28
64	Structural, optical, thermal, mechanical and dielectric studies of Sulfamic acid single crystals: An influence of dysprosium (Dy ³⁺) doping. Journal of Molecular Structure, 2016, 1119, 365-372.	1.8	27
65	High-Pressure Phase Transition of Hexagonal Alkali Pnictides. Inorganic Materials, 2003, 39, 266-270.	0.2	26
66	Nucleation kinetics, growth, mechanical, thermal and optical characterization of sulphamic acid single crystal. CrystEngComm, 2013, 15, 10034.	1.3	26
67	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
68	Crystal structure, phase stoichiometry and chemical environment of Mg _x Nb _y O _{x+y} nanoparticles and their impact on hydrogen storage in MgH ₂ . International Journal of Hydrogen Energy, 2016, 41, 11709-11715.	3.8	26
69	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
70	Structural transitions in Cu ₂ O at pressures up to 11 GPa. Journal of Physics Condensed Matter, 2003, 15, 7227-7235.	0.7	25
71	Filling carbon nanotubes with magnetic particles. Journal of Materials Chemistry C, 2013, 1, 2860.	2.7	25
72	An insight into the synthesis, crystal structure, geometrical modelling of crystal morphology, Hirshfeld surface analysis and characterization of N-(4-methylbenzyl)benzamide single crystals. Journal of Applied Crystallography, 2017, 50, 1498-1511.	1.9	24

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73	Ferroelectric characterization of aligned barium titanate nanofibres. Journal Physics D: Applied Physics, 2013, 46, 105304.	1.3	23
74	Tip-induced domain structures and polarization switching in ferroelectric amino acid glycine. Journal of Applied Physics, 2015, 118, .	1.1	22
75	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
76	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
77	Flux growth of $0.94\text{[Na}_{0.5}\text{K}_{0.5}\text{NbO}_3]_{1-x}\text{LiNbO}_3$ piezo-/ferroelectric crystals for long duration and high temperature applications. CrystEngComm, 2014, 16, 7004.	1.3	20
78	Glycine glutaric acid cocrystals: Morphological, optical, dielectric and mechanical properties via nanoindentation. Vacuum, 2018, 154, 90-100.	1.6	20
79	Structural changes in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ single crystals between 20°C and 875°C . Physica C: Superconductivity and Its Applications, 1992, 196, 191-199.	0.6	19
80	Superconductivity and structure of $\text{YBa}_2\text{Cu}_3\text{O}_6$ single crystals treated in halogen vapours. Physica C: Superconductivity and Its Applications, 1990, 165, 107-110.	0.6	18
81	Determination of the polaron shift in titanium diselenide-based intercalation compounds. Physics of the Solid State, 2000, 42, 1610-1612.	0.2	18
82	Growth and domain structure of $\text{YBa}_2\text{Cu}_3\text{O}_x$ thin films and $\text{YBa}_2\text{Cu}_3\text{O}_x/\text{CeO}_2$ heterostructures on tilted NdGaO_3 substrates. Physica C: Superconductivity and Its Applications, 2002, 377, 26-35.	0.6	18
83	Nanoscale Characterization of Ferroelectric Materials for Piezoelectric Applications. Ferroelectrics, 2006, 341, 3-19.	0.3	18
84	Flexible Piezoelectric Chitosan and Barium Titanate Biocomposite Films for Sensor Applications. European Journal of Inorganic Chemistry, 2021, 2021, 792-803.	1.0	18
85	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
86	The self-polarization effect in $\text{Pb}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3$ thin films with no preferential orientation. Materials Research Bulletin, 2012, 47, 3548-3551.	2.7	17
87	Crystalline and amorphous states in Zn-Sb and Cd-Sb alloys at high pressure. Physics of the Solid State, 1997, 39, 1341-1344.	0.2	16
88	Mapping Disorder in Polycrystalline Relaxors: A Piezoresponse Force Microscopy Approach. Materials, 2010, 3, 4860-4870.	1.3	16
89	Enhanced ferroelectric and magnetic properties of perovskite structured $\text{Bi}_{1-x}\text{Gd}_x\text{La}_{1-x}\text{Ti}_3\text{O}_3$ magnetoelectric ceramics. Journal of Physics and Chemistry of Solids, 2013, 74, 905-912.	1.9	16
90	FMR study of carbon nanotubes filled with Fe_3O_4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 44-49.	1.0	16

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91	Lead-Free Relaxor Ferroelectric $\text{Na}_{0.47}\text{K}_{0.47}\text{Li}_{0.06}\text{Nb}_{0.94}\text{Sb}_{0.06}\text{O}_3$ Crystals for Optoelectronic Applications. <i>Crystal Growth and Design</i> , 2015, 15, 1852-1860.		16
92	Bioferroelectricity in Nanostructured Glycine and Thymine: Molecular Modeling and Ferroelectric Properties at the Nanoscale. <i>Ferroelectrics</i> , 2015, 475, 107-126.	0.3	16
93	Dehydrogenation Properties of Magnesium Hydride Loaded with Fe, Fe^{13}C , and Fe^{13}Mg Additives. <i>ChemPhysChem</i> , 2017, 18, 287-291.	1.0	16
94	Phase separation in $(\text{Bi,Pb})_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ single crystals at an annealing at high oxygen pressure. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 371, 45-51.	0.6	15
95	Piezoresponse force microscopy studies of the triglycine sulfate-based nanofibers. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	15
96	Two step mechanochemical synthesis of Nb doped MgO rock salt nanoparticles and its application for hydrogen storage in MgH_2 . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11716-11722.	3.8	15
97	Amorphization of cuprite, Cu_2O , due to chemical decomposition under high pressure. <i>JETP Letters</i> , 2004, 80, 704-706.	0.4	14
98	Local bias induced ferroelectricity in manganites with competing charge and orbital order states. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4977-4981.	1.3	14
99	Effect of Ni doping on structural and optical properties of $\text{Zn}_{1-x}\text{Ni}_x\text{O}$ nanopowder synthesized via low cost sono-chemical method. <i>Materials Research Bulletin</i> , 2015, 70, 430-435.	2.7	14
100	Mechanical characteristics of gallium sulfide crystals measured using micro- and nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 757, 101-106.	2.6	14
101	Ferroelectric-Paraelectric Phase Transition in Triglycine Sulphate via Piezoresponse Force Microscopy. <i>Ferroelectrics</i> , 2012, 426, 215-222.	0.3	13
102	Investigation on key properties of solution grown L-Leucine hydrobromide single crystal: A semi-organic NLO material. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 264, 114927.	1.7	13
103	Chemical Changes of Graphene Oxide Thin Films Induced by Thermal Treatment under Vacuum Conditions. <i>Coatings</i> , 2020, 10, 113.	1.2	13
104	Immobilised rGO/TiO ₂ Nanocomposite for Multi-Cycle Removal of Methylene Blue Dye from an Aqueous Medium. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 385.	1.3	13
105	Local domain engineering in relaxor $0.77\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3-0.23\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3$ single crystals. <i>Journal of Applied Physics</i> , 2011, 110, 052002.	1.1	12
106	Domain growth kinetics in $\text{La}_{0.89}\text{Sr}_{0.11}\text{MnO}_3$ single crystal studied by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2012, 112, 052019.	1.1	12
107	Stiff Diamond/Buckypaper Carbon Hybrids. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22649-22654.	4.0	12
108	Effect of Solution Conditions on the Properties of Sol-Gel Derived Potassium Sodium Niobate Thin Films on Platinized Sapphire Substrates. <i>Nanomaterials</i> , 2019, 9, 1600.	1.9	12

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109	Growth and characterization of bulk Nd _{2-x} Ce _x CuO ₄ single crystals. Physica C: Superconductivity and Its Applications, 2000, 329, 51-57.	0.6	11
110	Nonstoichiometry and critical temperature of MgB ₂ . JETP Letters, 2001, 74, 274-278.	0.4	11
111	The characteristics of orthorhombicity of YBa ₂ Cu ₃ O _{7-δ} in superconducting state. Physica C: Superconductivity and Its Applications, 2002, 377, 49-55.	0.6	11
112	Raman scattering in sol-gel derived PbTiO ₃ films modified with Ca. Materials Chemistry and Physics, 2004, 85, 176-179.	2.0	11
113	Electron concentration and phase stability in binary alloys in pb and hg-sn under high pressure. High Pressure Research, 2004, 24, 551-563.	0.4	11
114	Local piezoresponse and polarization switching in nucleobase thymine microcrystals. Journal of Applied Physics, 2015, 118, .	1.1	11
115	Charge injection in large area multilayer graphene by ambient Kelvin probe force microscopy. Applied Materials Today, 2017, 8, 18-25.	2.3	11
116	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
117	Strain-Mediated Substrate Effect on the Dielectric and Ferroelectric Response of Potassium Sodium Niobate Thin Films. Coatings, 2018, 8, 449.	1.2	11
118	Nanoscale Piezoelectric Properties and Phase Separation in Pure and La-Doped BiFeO ₃ Films Prepared by Sol-Gel Method. Materials, 2021, 14, 1694.	1.3	11
119	The primary crystallization field and growth of Bi-2212 crystals in platinum and gold crucibles. Journal of Crystal Growth, 2001, 231, 194-202.	0.7	10
120	Synthesis and structural characterization of highly ~100%-oriented {100}-faceted nanocrystalline diamond films by microwave plasma chemical vapor deposition. Journal of Crystal Growth, 2009, 311, 2258-2264.	0.7	10
121	Intercrystalline distal-effect on the afterglow phenomenon in photoluminescent SrAl ₂ O ₄ :Ce(III), Ln nanotube growth. Nanotechnology, 2010, 21, 325707.	1.3	10
122	Production and PFM Characterization of Barium Titanate Nanofibers. Ferroelectrics, 2012, 429, 48-55.	0.3	10
123	The use of the X-ray anomalous transmission effect in the structure investigation of high-temperature superconductors. Physica C: Superconductivity and Its Applications, 1992, 201, 69-74.	0.6	9
124	Optical phonon spectra of PbF ₂ single crystals. Physics of the Solid State, 2000, 42, 41-50.	0.2	9
125	Phase transition in a tetragonal In ₉₀ Pb ₁₀ alloy under high pressure: a switch from c/a > 1 to c/a < 1. Journal of Physics Condensed Matter, 2003, 15, 1635-1641.	0.7	9
126	Structural depth profile and nanoscale piezoelectric properties of randomly oriented Pb(Zr _{0.50} Ti _{0.50})O ₃ thin films. Journal Physics D: Applied Physics, 2012, 45, 215304.	1.3	9

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127	Glycine nanostructures and domains in beta-glycine: computational modeling and PFM observations. <i>Ferroelectrics</i> , 2016, 496, 28-45.	0.3	9
128	Processing mediated enhancement of ferroelectric and electrocaloric properties in Ba(Ti _{0.8} Zr _{0.2})O ₃ -(Ba _{0.7} Ca _{0.3})TiO ₃ lead-free piezoelectrics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6424-6440.	2.8	9
129	BCC high-pressure phase in the SnBi alloy. <i>Solid State Communications</i> , 1996, 99, 907-909.	0.9	8
130	Study of growth/intergrowth behavior and structural analyses of Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ + δ single crystals. <i>Journal of Crystal Growth</i> , 2006, 296, 69-74.	0.7	8
131	Microstructure and ferroelectric properties of sol-gel graded PZT (40/52/60) and (60/52/40) thin films. <i>Ceramics International</i> , 2008, 34, 1027-1030.	2.3	8
132	Preferred deposition of phospholipids onto ferroelectric P(VDF-TrFE) films via polarization patterning. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 335301.	1.3	8
133	Femtosecond Infrared Laser Annealing of PZT Films on a Metal Substrate. <i>Ferroelectrics</i> , 2012, 433, 164-169.	0.3	8
134	Crystal Structure and Strong Piezoelectricity of New Amino Acid Based Hybrid Crystals: [H- β -(3-Pyridyl)-Ala-OH][ClO ₄] and [H- β -(4-Pyridyl)-Ala-OH][ClO ₄]. <i>Crystal Growth and Design</i> , 2019, 19, 2583-2593.	1.4	8
135	Investigations on key aspects of solution growth L-Alanine strontium chloride trihydrate single crystal for non-linear optical and photonic applications. <i>Solid State Communications</i> , 2020, 319, 114010.	0.9	8
136	Interaction of zirconia with magnesium hydride and its influence on the hydrogen storage behavior of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21760-21771.	3.8	8
137	Out-of-substrate plane orientation control of thin YBa ₂ Cu ₃ O _x films on NdGaO ₃ tilted-axes substrates. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 434, 105-114.	0.6	7
138	Ferroelectric domains and twinning in high-quality SrBi ₂ Ta ₂ O ₉ single crystals. <i>Applied Physics Letters</i> , 2006, 88, 062903.	1.5	7
139	Theoretical Prediction and Direct Observation of Metastable Non-Polar Regions in Domain Structure of Sn ₂ P ₂ S ₆ Ferroelectrics with Triple-Well Potential. <i>Ferroelectrics</i> , 2012, 438, 55-67.	0.3	7
140	Substrate decoration for improvement of current-carrying capabilities of YBa ₂ Cu ₃ O _x thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 486, 1-8.	0.6	7
141	Ferroelectric nanofibers with an embedded optically nonlinear benzothiazole derivative. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	7
142	Dielectric relaxation and ac conduction in multiferroic Bi _{0.8} Gd _{0.1} Pb _{0.1} Fe _{0.9} Ti _{0.1} O ₃ ceramics: impedance spectroscopy analysis. <i>Phase Transitions</i> , 2016, 89, 1213-1224.	0.6	7
143	Strong impact of LiNbO ₃ fillers on local electromechanical and electrochemical properties of P(VDF-TrFe) polymer disclosed via scanning probe microscopy. <i>Applied Surface Science</i> , 2019, 470, 1093-1100.	3.1	7
144	Instantaneous fibrillation of egg white proteome with ionic liquid and macromolecular crowding. <i>Communications Materials</i> , 2020, 1, .	2.9	7

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145	The growth and conductivity of CaCuO ₂ epitaxial thin films. Physica C: Superconductivity and Its Applications, 2004, 408-410, 616-617.	0.6	6
146	<title>Tilted-axes YBCO thin films: from vicinal range to step bunching</title>. , 2004, , .		6
147	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics. Journal of Advanced Dielectrics, 2019, 09, 1950016.	1.5	6
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