

Yun Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2907872/yun-liu-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

6,887
citations

38
h-index

79
g-index

191
ext. papers

7,999
ext. citations

6.5
avg, IF

5.76
L-index

#	Paper	IF	Citations
183	An orthophosphate semiconductor with photooxidation properties under visible-light irradiation. <i>Nature Materials</i> , 2010 , 9, 559-64	27	1648
182	Electron-pinned defect-dipoles for high-performance colossal permittivity materials. <i>Nature Materials</i> , 2013 , 12, 821-6	27	541
181	Interface passivation using ultrathin polymer/fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. <i>Energy and Environmental Science</i> , 2017 , 10, 1792-1800	35.4	305
180	Antiferroelectrics for Energy Storage Applications: a Review. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800111	6.8	184
179	Large Electric Field-Induced Strain and Antiferroelectric Behavior in (1-x)(Na _{0.5} Bi _{0.5})TiO ₃ -xBaTiO ₃ Ceramics. <i>Chemistry of Materials</i> , 2011 , 23, 219-228	9.6	147
178	Colossal Dielectric Behavior of Ga+Nb Co-Doped Rutile TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25321-5	9.5	140
177	Electrospinning induced ferroelectricity in poly(vinylidene fluoride) fibers. <i>Nanoscale</i> , 2011 , 3, 3068-71	7.7	137
176	Colossal Dielectric Permittivity in (Nb+Al) Codoped Rutile TiO ₂ Ceramics: Compositional Gradient and Local Structure. <i>Chemistry of Materials</i> , 2015 , 27, 4934-4942	9.6	130
175	Composition-induced antiferroelectric phase and giant strain in lead-free (Na _y Bi _z)Ti _{1-x} O ₃ (1-x)BaTiO ₃ ceramics. <i>Physical Review B</i> , 2011 , 83,	3.3	122
174	Ferroelectric memristor based on Pt/BiFeO ₃ /Nb-doped SrTiO ₃ heterostructure. <i>Applied Physics Letters</i> , 2013 , 102, 102901	3.4	117
173	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oil-Polluted Water Cleanup. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400267	4.6	108
172	Influence of Calcining Temperature on Photoluminescence and Triboluminescence of Europium-Doped Strontium Aluminate Particles Prepared by Sol-Gel Process. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3991-3995	3.4	100
171	Structurally frustrated relaxor ferroelectric behavior in CaCu ₃ Ti ₄ O ₁₂ . <i>Physical Review B</i> , 2005 , 72,	3.3	100
170	Superhydrophobic and Superoleophilic Boron Nitride Nanotube-Coated Stainless Steel Meshes for Oil and Water Separation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300002	4.6	91
169	Colossal permittivity with ultralow dielectric loss in In + Ta co-doped rutile TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5436-5441	13	87
168	Colossal permittivity properties of Zn,Nb co-doped TiO ₂ with different phase structures. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11005-11010	7.1	77
167	Nanoscale investigation of ferroelectric properties in electrospun barium titanate/polyvinylidene fluoride composite fibers using piezoresponse force microscopy. <i>Composites Science and Technology</i> , 2011 , 71, 1435-1440	8.6	74

166	High Efficiency Perovskite-Silicon Tandem Solar Cells: Effect of Surface Coating versus Bulk Incorporation of 2D Perovskite. <i>Advanced Energy Materials</i> , 2020 , 10, 1903553	21.8	73
165	Influence of Eu, Dy co-doped strontium aluminate composition on mechanoluminescence intensity. <i>Journal of Luminescence</i> , 2002 , 97, 13-18	3.8	72
164	Nano-Imprinted Ferroelectric Polymer Nanodot Arrays for High Density Data Storage. <i>Advanced Functional Materials</i> , 2013 , 23, 3124-3129	15.6	71
163	Giant Magnetodielectric Effect in 0B Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ -Poly(vinylidene-fluoride) Nanocomposite Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13861-13866	3.8	70
162	New method for making porous SiO ₂ thin films. <i>Thin Solid Films</i> , 1999 , 353, 124-128	2.2	70
161	Microstructure development in electrospun carbon nanotube reinforced polyvinylidene fluoride fibers and its influence on tensile strength and dielectric permittivity. <i>Composites Science and Technology</i> , 2013 , 88, 1-8	8.6	58
160	Origin of mechanoluminescence from Mn-activated ZnAl ₂ O ₄ : Triboelectricity-induced electroluminescence. <i>Physical Review B</i> , 2004 , 69,	3.3	58
159	Selective separation of oil and water with mesh membranes by capillarity. <i>Advances in Colloid and Interface Science</i> , 2016 , 235, 46-55	14.3	54
158	The pyrochlore to defect fluorite transition in the Y ₂ (Zr _{1-x} Ti _x) ₂ O ₇ system and its underlying crystal chemistry. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4404-4412	3.3	48
157	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7761-6	3.6	47
156	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. <i>Optical Materials</i> , 2007 , 29, 1295-1298	3.3	43
155	Interface-Charge Induced Giant Electrocaloric Effect in Lead Free Ferroelectric Thin-Film Bilayers. <i>Nano Letters</i> , 2020 , 20, 1262-1271	11.5	43
154	Atomic-scale control of TiO ₆ octahedra through solution chemistry towards giant dielectric response. <i>Scientific Reports</i> , 2014 , 4, 6582	4.9	42
153	Structured diffuse scattering and polar nano-regions in the Ba(Ti _{1-x} Sn _x)O ₃ relaxor ferroelectric system. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 858-865	3.3	42
152	Noble-Metal-Free Multicomponent Nanointegration for Sustainable Energy Conversion. <i>Chemical Reviews</i> , 2021 , 121, 10271-10366	68.1	41
151	Detailed Phase Analysis and Crystal Structure Investigation of a Bi _{1-x} CaxFeO _{3-x/2} Perovskite-Related Solid Solution Phase and Selected Property Measurements Thereof. <i>Chemistry of Materials</i> , 2009 , 21, 4223-4232	9.6	40
150	The local crystal chemistry and dielectric properties of the cubic pyrochlore phase in the Bi ₂ O ₃ M ₂ +ONb ₂ O ₅ (M ²⁺ =Ni ²⁺ and Mg ²⁺) systems. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 549-557	3.3	40
149	Over 1.0mm-long boron nitride nanotubes. <i>Chemical Physics Letters</i> , 2008 , 463, 130-133	2.5	40

148	Self-assembly dynamics and accumulation mechanisms of ultra-fine nanoparticles. <i>Nanoscale</i> , 2015 , 7, 9859-67	7.7	38
147	Janus Conductive/Insulating Microporous Ion-Sieving Membranes for Stable Li-S Batteries. <i>ACS Nano</i> , 2020 , 14, 13852-13864	16.7	38
146	Large piezoelectric properties in KNN-based lead-free single crystals grown by a seed-free solid-state crystal growth method. <i>Applied Physics Letters</i> , 2016 , 108, 182904	3.4	38
145	Ca-Doping of BiFeO ₃ : The Role of Strain in Determining Coupling between Ferroelectric Displacements, Magnetic Moments, Octahedral Tilting, and Oxygen-Vacancy Ordering. <i>Chemistry of Materials</i> , 2013 , 25, 4436-4446	9.6	37
144	Electroluminescent ceramics excited by low electrical field. <i>Applied Physics Letters</i> , 2004 , 84, 5016-5018	3.4	37
143	One-dimensional multiferroic bismuth ferrite fibers obtained by electrospinning techniques. <i>Nanotechnology</i> , 2011 , 22, 235702	3.4	36
142	Colossal permittivity behavior and its origin in rutile (MgTa)TiO ₆ . <i>Scientific Reports</i> , 2017 , 7, 9950	4.9	35
141	The disordered structures and low temperature dielectric relaxation properties of two misplaced-displacive cubic pyrochlores found in the Bi ₂ O ₃ -M ₂ O ₅ (M=Mg, Ni) systems. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2558-2565	3.3	35
140	Nonlinear optical properties of lanthanum doped lead titanate thin film using Z-scan technique. <i>Applied Physics Letters</i> , 1996 , 69, 458-459	3.4	34
139	The Formation of Defect-Pairs for Highly Efficient Visible-Light Catalysts. <i>Advanced Materials</i> , 2017 , 29, 1605123	24	33
138	Displacive disorder and dielectric relaxation in the stoichiometric bismuth-containing pyrochlores, Bi ₂ M ₂ Nb ₂ O ₇ (M=In and Sc). <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2748-2755	3.3	33
137	Earth-abundant transition metal oxides with extraordinary reversible oxygen exchange capacity for efficient thermochemical synthesis of solar fuels. <i>Nano Energy</i> , 2018 , 50, 347-358	17.1	33
136	Crystal chemistry on a lattice: The case of BZN and BZN-related pyrochlores. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2141-2149	3.3	31
135	Preparation and luminescence of rare-earth-activated Y ₂ SiO ₅ thin films by metallorganic decomposition. <i>Journal of Luminescence</i> , 2000 , 87-89, 1297-1299	3.8	31
134	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. <i>Polymer</i> , 2014 , 55, 5616-5622	3.9	30
133	Colossal permittivity and dielectric relaxation of (Li, In) Co-doped ZnO ceramics. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 200-206	5.7	29
132	Properties of pbtio ₃ , La-modified pbtio ₃ and Pb(Zr,Ti)O ₃ thin films and their application to infrared detectors. <i>Integrated Ferroelectrics</i> , 1997 , 15, 271-279	0.8	29
131	Cluster chemistry in the solid state: Structured diffuse scattering, oxide/fluoride ordering and polar behaviour in transition metal oxyfluorides. <i>Polyhedron</i> , 2007 , 26, 290-299	2.7	29

130	A combined diffraction (XRD, electron and neutron) and electrical study of Na ₃ MoO ₃ F ₃ . <i>Journal of Solid State Chemistry</i> , 2003 , 174, 450-458	3.3	26
129	Anomalous Photovoltaic Effect in Centrosymmetric Ferroelastic BiVO ₄ . <i>Advanced Materials</i> , 2018 , 30, e1801619	24	26
128	Reversible single crystal-to-single crystal double [2+2] cycloaddition induces multifunctional photo-mechano-electrochemical properties in framework materials. <i>Nature Communications</i> , 2020 , 11, 2808	17.4	25
127	The crystal chemistry of Fe-bearing sphalerites: An infrared spectroscopic study. <i>American Mineralogist</i> , 2008 , 93, 591-597	2.9	25
126	On-chip investigation of cell-drug interactions. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1556-74	18.5	24
125	Design Synthesis of Nitrogen-Doped TiO ₂ @Carbon Nanosheets toward Selective Nitroaromatics Reduction under Mild Conditions. <i>ACS Catalysis</i> , 2017 , 7, 6991-6998	13.1	24
124	The temperature-dependent piezoelectric and electromechanical properties of cobalt-modified sodium bismuth titanate. <i>Ceramics International</i> , 2016 , 42, 4268-4273	5.1	23
123	Fully-inverted piezoresponse hysteresis loops mediated by charge injection in 0.29Pb(In _{1/2} Nb _{1/2})O ₃ ·0.44Pb(Mg _{1/3} Nb _{2/3})O ₃ ·0.27PbTiO ₃ single crystals. <i>Applied Physics Letters</i> , 2011 , 98, 092908	3.4	23
122	Electric field tunable thermal stability of energy storage properties of PLZST antiferroelectric ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2382-2386	3.8	22
121	A TEM, XRD, and crystal chemical investigation of oxygen/vacancy ordering in (Ba _{1-x} Lax) ₂ In ₂ O _{5+x} , 0<x<0.6. <i>Journal of Solid State Chemistry</i> , 2003 , 170, 247-254	3.3	22
120	Response of intergrown microstructure to an electric field and its consequences in the lead-free piezoelectric bismuth sodium titanate. <i>Journal of Solid State Chemistry</i> , 2012 , 187, 309-315	3.3	21
119	K(0.46)Na(0.54)NbO ₃ ferroelectric ceramics: chemical synthesis, electro-mechanical characteristics, local crystal chemistry and elastic anomalies. <i>Dalton Transactions</i> , 2011 , 40, 5066-72	4.3	21
118	A correlated electron diffraction, in situ neutron diffraction and dielectric properties investigation of poled (1-x)Bi _{0.5} Na _{0.5} TiO ₃ -xBaTiO ₃ ceramics. <i>Journal of Applied Physics</i> , 2011 , 110, 084114	2.5	21
117	Piezoresponse force microscopy studies on the domain structures and local switching behavior of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2012 , 112, 052006	2.5	21
116	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent.. <i>Nature</i> , 2022 , 601, 573-578	5.78	21
115	Pressure driven depolarization behavior of Bi _{0.5} Na _{0.5} TiO ₃ based lead-free ceramics. <i>Applied Physics Letters</i> , 2017 , 110, 212901	3.4	20
114	Large Piezoelectricity and Ferroelectricity in Mn-Doped (Bi _{0.5} Na _{0.5})TiO ₃ -BaTiO ₃ Thin Film Prepared by Pulsed Laser Deposition. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2347-2353	3.8	20
113	Electric-field-induced AFE-FE transitions and associated strain/preferred orientation in antiferroelectric PLZST. <i>Scientific Reports</i> , 2016 , 6, 23659	4.9	19

112	Dipolar-glass-like relaxor ferroelectric behaviour in the 0.5BaTiO ₃ -0.5Bi(Mg _{1/2} Ti _{1/2})O ₃ electroceramic. <i>Applied Physics Letters</i> , 2013 , 103, 042910	3.4	19
111	Ferroelastic aspects of relaxor ferroelectric behaviour in Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ perovskite. <i>Journal of Applied Physics</i> , 2013 , 113, 124102 ²⁻⁵	2.5	19
110	Microwave dielectric properties of low-firing BiNbO ₄ ceramics with V ₂ O ₅ substitution. <i>Journal of Electroceramics</i> , 2008 , 21, 469-472	1.5	19
109	Tunable Optoelectronic Properties of WS ₂ by Local Strain Engineering and Folding. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901381	6.4	18
108	Structured diffuse scattering and the fundamental 1-d dipolar unit in PLZT (Pb _{1-x} La _x) _{1-z} Zr _{1-x} Ti _x O ₃ (7.5/65/35 and 7.0/60/40) transparent ferroelectric ceramics. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 348-355	3.3	18
107	Photoluminescence and triboluminescence of PZT materials at room temperature. <i>Ferroelectrics</i> , 2001 , 264, 331-336	0.6	18
106	Piezoelectric Responses of Mechanically Exfoliated Two-Dimensional SnS Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51662-51668	9.5	18
105	Photoactivity and Stability Co-Enhancement: When Localized Plasmons Meet Oxygen Vacancies in MgO. <i>Small</i> , 2018 , 14, e1803233	11	18
104	Properties of PLT thin films by thermal decomposition of metallo-organic compounds. <i>Ferroelectrics</i> , 1994 , 152, 201-206	0.6	17
103	Collective nonlinear electric polarization via defect-driven local symmetry breaking. <i>Materials Horizons</i> , 2019 , 6, 1717-1725	14.4	16
102	Lead-free (Ag,K)NbO materials for high-performance explosive energy conversion. <i>Science Advances</i> , 2020 , 6, eaba0367	14.3	16
101	Above-Band Gap Photoinduced Stabilization of Engineered Ferroelectric Domains. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12781-12789	9.5	16
100	Chessboard/Diamond Nanostructures and the A-site Deficient, Li _{1/2} B _x Nd _{1/2+x} TiO ₃ , Defect Perovskite Solid Solution. <i>Chemistry of Materials</i> , 2013 , 25, 190-201	9.6	16
99	A two-step approach towards solar-driven water splitting. <i>Electrochemistry Communications</i> , 2011 , 13, 28-30	5.1	16
98	An electron diffraction, XRD and lattice dynamical investigation of the average structure and rigid unit mode (RUM) modes of distortion of microporous AlPO ₄₋₅ . <i>Solid State Sciences</i> , 2003 , 5, 427-434	3.4	15
97	A combined diffraction and dielectric properties investigation of Ba ₃ MnNb ₂ O ₉ complex perovskites. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3389-3395	3.3	15
96	Introduction of TiO in CuI for Its Improved Performance as a p-Type Transparent Conductor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24254-24263	9.5	14
95	Susceptible Ferroelectric/Antiferroelectric Phase Transition near the Surface of Nb-Doped Lead Zirconate Stannate Titanate from Surface Processing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14313-7	9.5	14

94	Rigid unit modes (RUMs) of distortion, local crystal chemistry and the inherent displacive flexibility of microporous AlPO ₄ -11. <i>Journal of Solid State Chemistry</i> , 2003 , 172, 431-437	3.3	14
93	Large-scale stationary hydrogen storage via liquid organic hydrogen carriers. <i>Science</i> , 2021 , 24, 102966	6.1	14
92	Preparation and potential application of boron nitride nanocups. <i>Materials Letters</i> , 2012 , 80, 148-151	3.3	13
91	Preparation and characterization of preferred oriented PZT films on amorphous substrates. <i>Journal of Materials Science</i> , 1999 , 34, 4129-4132	4.3	13
90	Bimetallic Ions Codoped Nanocrystals: Doping Mechanism, Defect Formation, and Associated Structural Transition. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3249-3255	6.4	12
89	Switching spectroscopic measurement of surface potentials on ferroelectric surfaces via an open-loop Kelvin probe force microscopy method. <i>Applied Physics Letters</i> , 2012 , 101, 242906	3.4	12
88	Cathodoluminescence of boron nitride nanotubes doped by ytterbium. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S353-S355	5.7	12
87	Relaxor dielectric properties of a (Ca _{1.5} Ti _{0.5})(NbTi) _{0.7} B1 displaced-displacive cubic pyrochlore synthesised via metallorganic decomposition. <i>Solid State Communications</i> , 2008 , 145, 72-76	1.6	12
86	Development of porous silica thick films by a new base-catalyzed sol-gel route. <i>Materials Letters</i> , 2001 , 49, 102-107	3.3	12
85	Preparation of PLT thin films by thermal decomposition of metallo-organic compounds. <i>Ferroelectrics</i> , 1994 , 152, 195-200	0.6	12
84	A New n = 4 Layered Ruddlesden-Popper Phase K _{2.5} Bi _{2.5} Ti ₄ O ₁₃ Showing Stoichiometric Hydration. <i>Inorganic Chemistry</i> , 2016 , 55, 1403-11	5.1	11
83	A combined temperature-dependent electron and single-crystal X-ray diffraction study of the fresnoite compound Rb ₂ V ₄ +V ₂ 5+O ₈ . <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3316-3323	3.3	11
82	Approaching Piezoelectric Response of Pb-Piezoelectrics in Hydrothermally Synthesized Bi(NaK)TiO Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20816-20825	9.5	11
81	The effect of grain boundary on the visible light absorption of BaTi _{1-x} [Ni _{1/2} Nb _{1/2}] _x O _{3-δ} ferroelectric ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7405-7413	3.8	10
80	Reinvestigation of the photostrictive effect in lanthanum-modified lead zirconate titanate ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4074-4082	3.8	9
79	Critical role of the coupling between the octahedral rotation and A-site ionic displacements in PbZrO ₃ -based antiferroelectric materials investigated by in situ neutron diffraction. <i>Physical Review B</i> , 2017 , 96,	3.3	9
78	Rare-earth doped boron nitride nanotubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 146, 189-192	3.1	9
77	The upper Manganese doping limit and its effects on physical properties of lead-free Bi _{0.5} Na _{0.5} TiO ₃ ceramics. <i>Ceramics International</i> , 2018 , 44, 12767-12773	5.1	8

76	Observation of short-lived local polar states induced by applied tip biases in BaTiO ₃ -based relaxor ferroelectric ceramics. <i>Applied Physics Letters</i> , 2013 , 103, 022904	3.4	8
75	Efficient and stable wide bandgap perovskite solar cells through surface passivation with long alkyl chain organic cations. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18454-18465	13	8
74	Trans-Regime Structural Transition of (In ³⁺ + Nb ⁵⁺) Co-Doped Anatase TiO ₂ Nanocrystals under High Pressure. <i>Crystal Growth and Design</i> , 2017 , 17, 2529-2535	3.5	7
73	Evidence of phase coexistence in hydrothermally synthesized K _{0.5} Na _{0.5} NbO ₃ nanofibers. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8731-8739	13	7
72	Resistive switching behavior and improved multiferroic properties of Bi _{0.9} Er _{0.1} Fe _{0.98} Co _{0.02} O ₃ /Co _{1-x} Mn _x Fe ₂ O ₄ bilayered thin films. <i>Ceramics International</i> , 2018 , 44, 12600-12607	5.1	7
71	Photovoltaic Effect of a Ferroelectric-Luminescent Heterostructure under Infrared Light Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29786-29794	9.5	7
70	In-situ neutron diffraction study of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals under uniaxial mechanical stress. <i>Journal of Applied Physics</i> , 2012 , 111, 084110	2.5	7
69	Phase analysis and microwave dielectric properties of BaO _{1-x} Nd _{2x/3} BTiO ₂ composite ceramics using variable size TiO ₂ reagents. <i>Ceramics International</i> , 2012 , 38, S153-S157	5.1	7
68	Structural transitions in [001]/[111]-oriented 0.26Pb(In _{1/2} Nb _{1/2})O ₃ -0.46Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.28PbTiO ₃ single crystals probed via neutron diffraction and electrical characterization. <i>Journal of Applied Physics</i> , 2013 , 113, 154104	2.5	7
67	Design of a novel disposable piezoelectric co-polymer diaphragm based biosensor unit. <i>Materials Science and Engineering C</i> , 2011 , 31, 95-98	8.3	7
66	Electric field dependence of ferroelectric stability in BiFeO ₃ thin films co-doped with Er and Mn. <i>Ceramics International</i> , 2020 , 46, 18690-18697	5.1	7
65	Enhancement of multiferroic properties in Bi _{0.92} Ho _{0.08} Fe _{0.97} Mn _{0.03} O ₃ /Zn _{0.5} Ni _{0.5} Fe ₂ O ₄ bilayered thin films by tunable schottky barrier and interface barrier. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 420-431	5.7	6
64	Ferroelectric and octahedral tilt twin disorder and the lead-free piezoelectric, sodium potassium niobate system. <i>Journal of Solid State Chemistry</i> , 2012 , 195, 55-62	3.3	6
63	LOCAL MICROSTRUCTURE EVOLUTION OF BISMUTH SODIUM TITANATE-BASED LEAD-FREE PIEZOELECTRIC SYSTEMS ACROSS THE MORPHOTROPIC PHASE BOUNDARY REGION. <i>Journal of Advanced Dielectrics</i> , 2012 , 02, 1230012	1.3	6
62	The Effect of Ta Doping on the Phase Transitions and the Piezoelectric and Ferroelectric Properties of K _{0.35} Na _{0.65} NbO ₃ . <i>Ferroelectrics</i> , 2012 , 429, 95-102	0.6	6
61	Soft phonon modes, structured diffuse scattering and the crystal chemistry of Fe-bearing sphalerites. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 655-660	3.3	6
60	A coupled electron diffraction and rigid unit mode (RUM) study of the crystal chemistry of some zeotypic AlPO ₄ compounds. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 2647-2657	3.3	6
59	Stress imaging with mechanoluminescence 2000 ,		6

58	Giant thermally-enhanced electrostriction and polar surface phase in La ₂ Mo ₂ O ₉ oxygen ion conductors. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
57	Dielectric relaxation and resistive switching of Bi _{0.96} Sr _{0.04} Fe _{0.98} Co _{0.02} O ₃ /CoFe ₂ O ₄ thin films with different thicknesses of the Bi _{0.96} Sr _{0.04} Fe _{0.98} Co _{0.02} O ₃ layer. <i>Ceramics International</i> , 2019 , 45, 3522-3530	5.1	6
56	Defect engineering for creating and enhancing bulk photovoltaic effect in centrosymmetric materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13182-13191	13	6
55	Effect of seeds and sintering additives on (K,Na,Li)NbO ₃ lead-free single crystals grown by a solid-state crystal growth method. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 365-369	1	5
54	Novel insight into the structure and properties of lead-free dielectric Sr ₃ TiNb ₄ O ₁₅ . <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8890-8896	7.1	5
53	Domain-selective photochemical reaction on oriented ferroelectric Pb(In _{1/2} Nb _{1/2})O ₃ Pb(Mg _{1/3} Nb _{2/3})O ₃ PbTiO ₃ single crystals. <i>Applied Surface Science</i> , 2013 , 265, 157-161	6.7	5
52	Preparation of Sb ₂ S ₃ film on functional organic self-assembled monolayers by chemical bath deposition. <i>Journal of Materials Science</i> , 2011 , 46, 700-706	4.3	5
51	Lead magnesium niobate-lead titanate piezoelectric immunosensors. <i>Sensors and Actuators A: Physical</i> , 2010 , 163, 82-87	3.9	5
50	Structural disorder in BZN-based pyrochlores. <i>Journal of Electroceramics</i> , 2008 , 21, 401-404	1.5	5
49	Novel approach to dynamic imaging of stress distribution with piezoluminescence. <i>Ferroelectrics</i> , 2001 , 263, 3-8	0.6	5
48	Properties of PLT thin film pyroelectric detectors III. Influences of buffer layer. <i>Infrared Physics and Technology</i> , 1995 , 36, 865-868	2.7	5
47	Natural liquid organic hydrogen carrier with low dehydrogenation energy: A first principles study. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 32089-32097	6.7	5
46	Study of the B-site ion behaviour in the multiferroic perovskite bismuth iron chromium oxide. <i>Journal of Applied Physics</i> , 2018 , 123, 154104	2.5	4
45	Ferroelectric Domain Engineered Photochemical Deposition for Area-Selectable Broadband Enhancement of Quantum Dot Photoluminescence. <i>Advanced Optical Materials</i> , 2013 , 1, 720-723	8.1	4
44	Energy and temperature dependence of rigid unit modes in AlPO ₆ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21547-54	3.6	4
43	Multifunction study of PZT thin films on amorphous and polycrystalline substrates. <i>Ferroelectrics</i> , 2001 , 263, 155-160	0.6	4
42	Structure-Driven, Ferroelectric Wake-Up Effect for Electrical Fatigue Relief. <i>Chemistry of Materials</i> , 2020 , 32, 6456-6463	9.6	4
41	Structure, dielectric and ferroelectric properties of lead free (K,Na)(Nb)O ₃ -xBiErO ₃ piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 7142-7151	2.1	3

40	Dipolar glass and magneto-electric coupling within a stacked organic system. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6090-6095	7.1	3
39	Soft phonon modes and diffuse scattering in $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ relaxor ferroelectrics. <i>Journal of Materials</i> , 2018 , 4, 345-352	6.7	3
38	A Novel Mineralizer-Facilitated, Composition-Controllable Route to the Synthesis of Small Cubes of Bismuth Sodium Potassium Titanate. <i>Integrated Ferroelectrics</i> , 2013 , 144, 169-175	0.8	3
37	Electrical characteristics of $\text{BaTiO}_3/\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ multilayered thin films synthesized via metalloorganic decomposition. <i>Solid State Ionics</i> , 2009 , 180, 1118-1120	3.3	3
36	Cubic perovskite-related phases in the ternary $\text{SrO-CuO-Nb}_2\text{O}_5$ system. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3140-3148	3.3	3
35	Flexible phases, modulated structures and the transmission electron microscope. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219,	1	3
34	Symmetry-mode analysis for intuitive observation of structure-property relationships in the lead-free antiferroelectric $(1-x)\text{AgNbO-LiTaO}$. <i>IUCrJ</i> , 2019 , 6, 740-750	4.7	3
33	High performance bulk photovoltaics in narrow-bandgap centrosymmetric ultrathin films. <i>Materials Horizons</i> , 2020 , 7, 898-904	14.4	3
32	Heterogeneous photocatalytic decomposition of per- and poly-fluoroalkyl substances: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 523-547	11.1	3
31	Structure, dielectric and ferroelectric properties of lead-free $(\text{Ba,Ca})(\text{Ti,Zr})\text{O}_3\text{-xBiErO}_3$ piezoelectric ceramics. <i>Ceramics International</i> , 2018 , 44, 6872-6877	5.1	2
30	Visualization of stress distribution in solid by mechanoluminescence 2001 ,		2
29	Hole-Pinned Defect Clusters for a Large Dielectric Constant up to GHz in Zinc and Niobium Codoped Rutile SnO . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54124-54132	9.5	2
28	Surface Characterisation of a Ferroelectric Single Crystal by Kelvin Probe Force Microscopy. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2013 , 03, 190-194	0.2	2
27	Chemical Synthesis and High-Pressure Reaction of Nb^{5+} Monodoped Rutile TiO_2 Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12808-12815	3.8	2
26	Magnetic ordering and spin dynamics in the $S=5/2$ staggered triangular lattice antiferromagnet $\text{Ba}_2\text{MnTeO}_6$. <i>Physical Review B</i> , 2020 , 102,	3.3	2
25	Highly Efficient Visible Light Catalysts Driven by $\text{Ti}^{3+}\text{-VO-}2\text{Ti}^{4+}\text{-N}_3\text{I}$ Defect Clusters. <i>ChemNanoMat</i> , 2019 , 5, 169-174	3.5	2
24	Diode-like rectification characteristics of BiFeO_3 -based $\text{Zn}_{1-x}\text{Ni}_x\text{Fe}_2\text{O}_4$ bilayered films for application of ferroelectric field effect transistors. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156818	5.7	2
23	A General Strategy to Achieve Colossal Permittivity and Low Dielectric Loss Through Constructing Insulator/Semiconductor/Insulator Multilayer Structures. <i>Journal of Low Temperature Physics</i> , 2018 , 192, 346-358	1.3	2

22	Spin-wave propagation in FeO nanorods: the effect of confinement and disorder. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 184003	1.8	1
21	Synthesis, structure and dielectric properties of the Sr ₃ Ti _{1-x} Zr _x Nb ₄ O ₁₅ , (0 ≤ x ≤ 1), series of tungsten bronze type compounds. <i>CrystEngComm</i> , 2020 , 22, 4994-5001	3.3	1
20	Phase Relations in Ba _{6-3x} Ln _{8+2x} Ti ₁₈ O ₅₄ (Ln = Nd & Sm) Electroceramics. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-7	1	1
19	Temperature Dependence of Electrical Properties and Crystal Structure of 0.29Pb(In _{1/2} Nb _{1/2})O ₃ ·0.44Pb(Mg _{1/3} Nb _{2/3})O ₃ ·0.27PbTiO ₃ Single Crystals. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-5	1	1
18	Stacking fault disorder and its diffraction consequences in Ba ₃ MNb ₂ O ₉ (M=Co and Mn) 1:2 triple perovskites. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 564-566	2.8	1
17	Multilayer pyroelectric thin film with a gradient thermal insulating layer. <i>Ferroelectrics</i> , 2001 , 263, 137-142	1.26	1
16	Preparation and Characteristics of ZnO Thin Films Deposited on Glass Substrates. <i>Key Engineering Materials</i> , 2001 , 214-215, 193-198	0.4	1
15	Pyroelectric properties of PLT thin films. <i>Ferroelectrics, Letters Section</i> , 1995 , 19, 107-112	0.5	1
14	Dual-Ion Flux Management for Stable High Areal Capacity Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 2103-2111	21.8	1
13	Is hydrogen diffusion in amorphous metals non-Arrhenian?. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 9627-9634	6.7	1
12	BiOBr Micro-Nanosheets: Controllable Synthesis and Piezoelectric and Photoelectric Properties. <i>Crystal Growth and Design</i> , 2021 , 21, 7179-7185	3.5	1
11	Understanding the role of electrons in the magnetism of a colossal permittivity dielectric material. <i>Materials Horizons</i> , 2020 , 7, 188-192	14.4	1
10	Mechanism for enhanced ferroelectricity in multi-doped BiFeO ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 1265-1277	2.1	0
9	Role of A-Site Molecular Ions in the Polar Functionality of Metal-Organic Framework Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 9666-9676	9.6	0
8	A Facile Strategy for the Functionalization of Boron Nitride Nanotubes with Pd Nanoparticles. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-5	3.2	
7	Structural Disorder in the Key Lead-Free Piezoelectric Materials, and. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-5	1	
6	Effect of Electric Field and Temperature on Average Structure and Domain Wall Motion in 0.93Bi _{0.5} Na _{0.5} TiO ₃ -0.07BaTiO ₃ Ceramic. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-4	1	
5	Effect of Mineralizer on the Hydrothermal Synthesis of Bi _{0.5} Na _{0.5} TiO ₃ Lead-Free Piezoelectric Crystals. <i>Advanced Materials Research</i> , 2011 , 298, 209-214	0.5	

- 4 A TEM study of Ni ordering in the Ni₆Se₅Te_x, 0. *Journal of Solid State Chemistry*, **2004**, 177, 972-978 3.3
- 3 Local Strain, Structured Diffuse Scattering and Oxygen/Fluorine Ordering in Transition Metal Oxyfluorides. *Ferroelectrics*, **2004**, 305, 123-126 0.6
- 2 Microstructures and Electrical Characteristics of PZT Thin Films Deposited on Stainless Steel Using a LaNiO₃ Buffer Layer. *Key Engineering Materials*, **2001**, 214-215, 117-122 0.4
- 1 Study on resistance switching characteristics and regulation mechanisms of Bi_{0.9}Er_{0.1}Fe_{0.99}Mn_{0.01}O₃/Zn_{1-x}Cu_xO thin films. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 18699-18710 2.1