Xifa Long

List of Publications by Year in descending order

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81 papers	2,112 citations	279487 23 h-index	253896 43 g-index
82 all docs	82 docs citations	82 times ranked	1189 citing authors

#	Article	IF	Citations
1	Impact of Thickness and Poling Condition on Dielectric and Piezoelectric Properties of Pb(In_{0.5}Nb_{0.5})O₃â€“PbTiO₃ Ferroelectric Crystals. Physica Status Solidi (B): Basic Research, 2022, 259, 2100287.	0.7	4
2	Enhanced mechanical quality factor of BiScO₃â€“PbTiO₃piezoelectric ceramics using glass composition. RSC Advances, 2022, 12, 8095-8101.	1.7	3
3	Phosphogermanate Crystal: A New Ultravioletâ€“Infrared Nonlinear Optical Crystal with Excellent Optical Performances. ACS Applied Materials & Interfaces, 2022, 14, 10588-10593.	4.0	7
4	Balance of Deep-Ultraviolet Transparency and Large Second Harmonic Generation Response in a Silicate Crystal. Crystal Growth and Design, 2022, 22, 3457-3461.	1.4	5
5	Performance enhancement of Pb(In1/2Nb1/2)O3-PbTiO3 ferroelectric single crystals using pulse poling. Scripta Materialia, 2022, 215, 114694.	2.6	6
6	An Optimized KBe₂BO₃F₂â€Like Structure: The Unity of Deepâ€Ultraviolet Transparency, Nonlinear Optical Property, and Ferroelectricity. Advanced Optical Materials, 2022, 10, .	3.6	12
7	Alkali metal sulfate: A new non-Ï€-conjugated deep-ultraviolet quasi-phase matching crystal. Scripta Materialia, 2022, 217, 114764.	2.6	9
8	Symmetry of antiferroelectric crystals crystallized in polar point groups. IUCrJ, 2022, 9, 516-522.	1.0	0
9	Giant Optical Anisotropy in the UVâ€Transparent 2D Nonlinear Optical Material Sc(IO₃)₂(NO₃). Angewandte Chemie - International Edition, 2021, 60, 3464-3468.	7.2	124
10	Giant Optical Anisotropy in the UVâ€Transparent 2D Nonlinear Optical Material Sc(IO₃)₂(NO₃). Angewandte Chemie, 2021, 133, 3506-3510.	1.6	46
11	Effects of alternating current poling on the dielectric and piezoelectric properties of Pb(In_{0.5}Nb_{0.5})O₃â€“PbTiO₃ crystals with a high Curie temperature. RSC Advances, 2021, 11, 12826-12832.	1.7	14
12	Large Second-Harmonic Response and Giant Birefringence of CeF₂(SO₄) Induced by Highly Polarizable Polyhedra. Journal of the American Chemical Society, 2021, 143, 4138-4142.	6.6	147
13	Ultrahigh pyroelectric effect and energy harvesting density of Pb(Lu1/2Nb1/2)O3â€“PbTiO3 crystals induced by FE-AFE phase transition. Journal of Rare Earths, 2021, 39, 1567-1573.	2.5	0
14	Ï€-Conjugated Trigonal Planar [C(NH₂)₃]⁺ Cationic Group: A Superior Functional Unit for Ultraviolet Nonlinear Optical Materials. ACS Omega, 2021, 6, 9263-9268.	1.6	22
15	Borosilicate Crystal LaBSiO₅: A New Promising Ultraviolet Quasiphase Matching Material. Advanced Optical Materials, 2021, 9, 2100080.	3.6	16
16	Enhanced piezoelectric and dielectric properties of Pb(Yb1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3 crystals by combining alternating and direct current poling. Journal of Applied Physics, 2021, 129, .	1.1	12
17	UV Solarâ€Blindâ€Region Phaseâ€Matchable Optical Nonlinearity and Anisotropy in a Ï€â€Conjugated Cationâ€Containing Phosphate. Angewandte Chemie, 2021, 133, 14932-14936.	1.6	19
18	Innentitelbild: UV Solarâ€Blindâ€Region Phaseâ€Matchable Optical Nonlinearity and Anisotropy in a Ï€â€Conjugated Cationâ€Containing Phosphate (Angew. Chem. 27/2021). Angewandte Chemie, 2021, 133, 14842-14842.	1.6	0

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19	UV Solarâ€Blindâ€Region Phaseâ€Matchable Optical Nonlinearity and Anisotropy in a Ï€â€Conjugated Cationâ€Containing Phosphate. Angewandte Chemie - International Edition, 2021, 60, 14806-14810.	7.2	99
20	Improvement of temperature-stability and piezoelectric performance of Pb(In0.5Nb0.5)O3â€“PbTiO3 crystals via Nd doping. Ceramics International, 2021, 47, 19575-19581.	2.3	7
21	Optimizing the Piezoelectric and Dielectric Properties of Pb(In_{1/2}Nb_{1/2})Oâ,ƒ-PbTiOâ,ƒ Ferroelectric Crystals via Alternating Current Poling Waveform. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2775-2780.	1.7	9
22	Non-Ï€-Conjugated Deep-Ultraviolet Nonlinear Optical Crystal K₂Zn₃(SO₄)(HSO₄)₂F₄. Journal of Physical Chemistry Letters, 2021, 12, 8280-8284.	2.1	18
23	Giant Second-Harmonic Generation Response and Large Band Gap in the Partially Fluorinated Mid-Infrared Oxide RbTeMo₂O₈F. Journal of the American Chemical Society, 2021, 143, 12455-12459.	6.6	91
24	Electro-optic modulation in a non-centrosymmetric antiferroelectric crystal. Journal of Materials Chemistry C, 2021, 9, 9431-9435.	2.7	2
25	Broad bandwidth emission and in situ electric field modulation of photoluminescence in Nd-doped ferroelectric crystals. Chemical Communications, 2021, 57, 488-491.	2.2	5
26	Na_{1.5}Rb_{0.5}PO₃FÂ·H₂O: synthesis, properties, and stepwise reconstruction of the hydrogen bond network. Inorganic Chemistry Frontiers, 2021, 8, 4544-4552.	3.0	6
27	A new rare-earth borate birefringent crystal with quasi-two-dimensional [BO₃] layers. Journal of Materials Chemistry C, 2021, 9, 15886-15890.	2.7	11
28	From CeF₂(SO₄)Â·H₂O to Ce(IO₃)₂(SO₄): Defluorinated Homovalent Substitution for Strong Second-Harmonic-Generation Effect and Sufficient Birefringence. Chemistry of Materials, 2021, 33, 9317-9325.	3.2	23
29	Ca₂B₅O₉Cl and Sr₂B₅O₉Cl: Nonlinear Optical Crystals with Deep-Ultraviolet Transparency Windows. ACS Applied Materials & Interfaces, 2020, 12, 4632-4637.	4.0	32
30	(NH₄)Bi₂(IO₃)₂F₅: An Unusual Ammoniumâ€Containing Metal Iodate Fluoride Showing Strong Second Harmonic Generation Response and Thermochromic Behavior. Angewandte Chemie - International Edition, 2020, 59, 5268-5272.	7.2	73
31	Effects of defect dipoles on tunable dielectric response in relaxor ferroelectric ceramics. Journal of the American Ceramic Society, 2020, 103, 6445-6452.	1.9	6
32	Zn₃B₇O₁₃Cl: A New Deep-Ultraviolet Transparency Nonlinear Optical Crystal with Boracite Structure. ACS Applied Materials & Interfaces, 2020, 12, 42942-42948.	4.0	14
33	Enhanced Energy Storage Density of Lead Lutetium Niobate Crystals by Electric Field-Induced Secondary Phase Transition via Na/La Codoping. ACS Applied Materials & Interfaces, 2020, 12, 28239-28245.	4.0	8
34	A(H₃C₃N₃O₃)(NO₃) (A = K, Rb): Alkali-Metal Nitrate Isocyanurates with Strong Optical Anisotropy. Inorganic Chemistry, 2020, 59, 10361-10367.	1.9	30
35	A microcrystal method for the measurement of birefringence. CrystEngComm, 2020, 22, 1956-1961.	1.3	64
36	Tunable pyroelectricity, depolarization temperature and energy harvesting density in Pb(Lu0.5Nb0.5)O3-xPbTiO3 ceramics. Acta Materialia, 2020, 186, 523-532.	3.8	14

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37	Electrical properties of Sb₂O₃-modified BiScO₃â€“PbTiO₃-based piezoelectric ceramics. RSC Advances, 2020, 10, 13460-13469.	1.7	10
38	Lead-free polar borate crystal K3Nb3B2O12: a novel antiferroelectric structure type. Journal of Materials Chemistry C, 2020, 8, 6654-6658.	2.7	5
39	Orientation Dependence of Photoluminescence Tuned by in Situ Electric Field in Ferroelectric Single Crystals. Crystal Growth and Design, 2020, 20, 4120-4126.	1.4	2
40	In Situ Electric Field Tuning Photoluminescence Response in Tetragonal-Phase Ferroelectric Single Crystals. ACS Applied Electronic Materials, 2020, 2, 1729-1734.	2.0	3
41	Orientationâ€dependent electrical property and domain configuration of Mnâ€doped Pb(In_{0.5}Nb_{0.5})O₃â€“PbTiO₃ single crystal. Journal of the American Ceramic Society, 2019, 102, 79-84.	1.9	4
42	Spontaneous Polarization and Local Disorder Induced Broad Bandwidth Emission in Nd-Doped Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ Ferroelectric Crystals. Crystal Growth and Design, 2019, 19, 4902-4907.	1.4	6
43	Dielectric and piezoelectric properties of Pb[(Mg_{1/3}Nb_{2/3})_{0.52}(Yb_{1/2}Nb_{1/2})_{0.15}Ti_{0.33} single-crystal rectangular plate and beam mode transducers poled by alternate current poling. Japanese Journal of Applied Physics, 2019, 58, SLLD06.	0.8	39
44	Lead titanate-induced abnormal ferroelectric/antiferroelectric phase transitions in Pb(Lu0.5Nb0.5)O3 solid solutions. Materials and Design, 2019, 183, 108168.	3.3	4
45	High energy storage density and ultrafast discharge in lead lutetium niobate based ceramics. Journal of Materials Chemistry A, 2019, 7, 8414-8422.	5.2	51
46	Investigation of switching behavior of acceptor-doped ferroelectric ceramics. Acta Materialia, 2019, 170, 100-108.	3.8	28
47	Effect of Pb(Mn1/3Sb2/3)O3 addition on the electrical properties of BiScO3-PbTiO3 piezoelectric ceramics. Journal of Alloys and Compounds, 2019, 790, 397-404.	2.8	20
48	Improved thermal stability of ferro/piezo-electric properties of Mn-doped Pb(In1/2Nb1/2)O3-PbTiO3 ceramics. Journal of the European Ceramic Society, 2018, 38, 3162-3169.	2.8	9
49	Evolution of electrical properties and domain configuration of Mn modified Pb(In1/2Nb1/2)O3-PbTiO3single crystals. Journal of Applied Physics, 2018, 123, 134101.	1.1	1
50	In Situ Di-, Piezo-, Ferroelectric Properties and Domain Configurations of Pb(Sc_{1/2}Nb_{1/2})O₃â€“Pb(Mg_{1/3}Nb_{2/3})O₃â€“PbTiO<sub> Ferroelectric Crystals. Crystal Growth and Design, 2018, 18, 145-151.	1.4	19
51	Fatigue endurance enhancement of Sn-doped Pb(Lu_{1/2}Nb_{1/2})O₃â€“PbTiO₃ ceramics. RSC Advances, 2018, 8, 11633-11642.	1.7	9
52	Field-induced phase transitions and enhanced double negative electrocaloric effects in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. Applied Physics Letters, 2018, 112, .	1.5	45
53	Super-Lattice Structure and Phase Evolution of Pb(Lu0.5Nb0.5)O3-PbTiO3 Single Crystal with Low PbTiO3. Crystals, 2018, 8, 50.	1.0	3
54	Modulation of electrocaloric effect and nanodomain structure in Mn-doped Pb(In0.5Nb0.5)O3-PbTiO3 ceramics. Ceramics International, 2018, 44, 20417-20426.	2.3	11

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55	NH₄Be₂BO₃F₂ and Î³â€Be₂BO₃F: Overcoming the Layering Habit in KBe₂BO₃F₂ for the Nextâ€Generation Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 8968-8972.	7.2	200
56	Mg₃B₇O₁₃Cl: A New Quasiâ€Phase Matching Crystal in the Deepâ€Ultraviolet Region. Advanced Functional Materials, 2018, 28, 1804089.	7.8	40
57	Domain and antiferroelectric properties of Pb(Lu1/2Nb1/2)O3Âsingle crystals and their superlattice structure. RSC Advances, 2017, 7, 3704-3712.	1.7	13
58	Improved electrical properties of BaTiO3 modified BiScO3-PbTiO3 ceramics with high Curie temperature. Ceramics International, 2017, 43, 11463-11468.	2.3	18
59	Effect of Mn-doping on the structure and electric properties of 0.64Pb(In0.5Nb0.5)O3-0.36PbTiO3 ceramics. Materials and Design, 2017, 117, 232-238.	3.3	21
60	Self-polarized high piezoelectricity and its memory effect in ferroelectric single crystals. Acta Materialia, 2017, 125, 498-505.	3.8	37
61	Influence of Mn dopants on the electrical properties of Pb(In_{0.5}Nb_{0.5})O₃â€“PbTiO₃ ferroelectric single crystals. RSC Advances, 2017, 7, 32607-32612.	1.7	17
62	Structural and Electrical Characteristics of (1â^'x)Pb(Lu_{1/2}Nb_{1/2})O₃â€“xPbTiO₃ Ceramics with Low PbTiO₃. Journal of the American Ceramic Society, 2016, 99, 3325-3329.	1.9	2
63	Scandium modified lead magnesium niobate-lead titanate single crystals for high temperature and high power applications. Materials Letters, 2016, 184, 162-165.	1.3	6
64	KPb₂(PO₃)₅: a novel nonlinear optical lead polyphosphate with a short deep-UV cutoff edge. Journal of Materials Chemistry C, 2016, 4, 10630-10637.	2.7	88
65	Structure and properties of (Na La Pb1â^'2)(Lu1/2Nb1/2)O3 antiferroelectric ceramics. Materials and Design, 2016, 92, 330-334.	3.3	17
66	Antiferroelectric single crystal of La 0.011 Pb 0.984 (Lu 1/2 Nb 1/2)O 3 with high energy storage density. Ceramics International, 2016, 42, 10472-10475.	2.3	5
67	High piezoelectric response of a new ternary ferroelectric pb(Ho1/2Nb1/2)O3-pb(Mg1/3Nb2/3)O3-PbTiO3 single crystal. Materials Letters, 2015, 143, 88-90.	1.3	18
68	La-modified Pb(Lu1/2Nb1/2)O3 antiferroelectric ceramics with high energy storage density. Journal of the European Ceramic Society, 2015, 35, 4173-4180.	2.8	34
69	New Antiferroelectric Solid Solution of Pb(Mg1/2 W1/2)O3 -Pb(Zn1/2 W1/2)O3 as Dielectric Ceramics. Journal of the American Ceramic Society, 2014, 97, 1700-1703.	1.9	4
70	Piezo-/dielectric properties of perovskite-structure high-temperature relaxor ferroelectrics: The Pb(Lu1/2Nb1/2)O3â€“Pb(Zn1/3Nb2/3)O3â€“PbTiO3 ternary ceramics. Materials Research Bulletin, 2014, 51, 251-257.	2.7	8
71	Non-relaxor responses of highly ordered Pb(Sc1/2Nb1/2)O3 crystals. CrystEngComm, 2014, 16, 6588-6592.	1.3	6
72	Synthesis, structure and electric properties of Pb(Yb1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3ternary ceramics. Journal Physics D: Applied Physics, 2012, 45, 105305.	1.3	15

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73	Growth and piezo-/ferroelectric properties of PIN-PMN-PT single crystals. Journal of Applied Physics, 2012, 111, 034105.	1.1	33
74	Characterization of Pb(In1/2Nb1/2)O3â€“PbTiO3 ferroelectric crystals grown by top-seeded solution growth method. Journal of Alloys and Compounds, 2012, 539, 17-20.	2.8	21
75	Growth of Pb(Fe1/2Nb1/2)O3â€“Pb(Yb1/2Nb1/2)O3â€“PbTiO3 piezo-/ferroelectric crystals for high power and high temperature applications. CrystEngComm, 2012, 14, 4407.	1.3	15
76	Preparation and Characterization of New Pb(Yb_{1/2}Nb_{1/2})O₃-Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ Ternary Piezo-/Ferroelectric Crystals. Chemistry of Materials, 2010, 22, 5588-5592.	8.2	63
77	Optically isotropic and monoclinic ferroelectric phases in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Pb</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mro Physical Review B, 2010, 81, .	1.1	84
78	Growth and Di-/Piezoelectric Properties of Al-Doped PMN-30PT Single Crystals. Crystal Growth and Design, 2009, 9, 657-659.	1.4	21
79	New Dielectric and Ferroelectric Solid Solution of (1â^'x)Ba(Mg1/3Nb2/3)O3â^'xPbTiO3with Morphotropic Phase Boundary. Chemistry of Materials, 2007, 19, 1285-1289.	3.2	33
80	Top-seeded solution growth and characterization of rhombohedral PMNâ€“30PT piezoelectric single crystals. Acta Materialia, 2007, 55, 6507-6512.	3.8	55
81	From Ce(IO₃)₄ to CeF₂(IO₃)₂: fluorinated homovalent substitution simultaneously enhances SHG response and bandgap for mid-infrared nonlinear optics. Journal of Materials Chemistry C, 0, , .	2.7	11