Yun Liu

List of Publications by Year
in descending order

228 papers	17,082 citations	57681 46 h-index	16791 127 g-index
233 all docs	233 docs citations	233 times ranked	23484 citing authors

#	Article	IF	Citations
1	Dualâ€Ion Flux Management for Stable High Areal Capacity Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	10.2	14
2	Is hydrogen diffusion in amorphous metals non-Arrhenian?. International Journal of Hydrogen Energy, 2022, 47, 9627-9634.	3.8	6
3	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent. Nature, 2022, 601, 573-578.	13.7	137
4	Electrochemical surface reconstructed Pt_{x(x=2,3)}Si/PtSi/p-Si photocathodes for achieving high efficiency in photoelectrochemical H₂ generation. Journal of Materials Chemistry A, 2022, 10, 4952-4959.	5.2	6
5	Volume imaging by tracking sparse topological features in electron micrograph tilt series. Ultramicroscopy, 2022, 236, 113475.	0.8	1
6	InOOH-mediated intergrown heterojunctions for enhanced photocatalytic Performance: Assembly and interfacial charge carrier transferring. Chemical Engineering Journal, 2022, 442, 136355.	6.6	7
7	Simultaneously achieving large energy density and high efficiency in NaNbO₃â€“(Sr,Bi)TiO₃â€“Bi(Mg,Zr)O₃ relaxor ferroelectric ceramics for dielectric capacitor applications. Journal of Materials Chemistry A, 2022, 10, 13907-13916.	5.2	23
8	Ferroelectric Ceramics for Pyroelectric Detection Applications: A Review. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 242-252.	1.7	10
9	Defect engineering for creating and enhancing bulk photovoltaic effect in centrosymmetric materials. Journal of Materials Chemistry A, 2021, 9, 13182-13191.	5.2	12
10	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. Science, 2021, 371, 390-395.	6.0	270
11	Efficient and stable wide bandgap perovskite solar cells through surface passivation with long alkyl chain organic cations. Journal of Materials Chemistry A, 2021, 9, 18454-18465.	5.2	32
12	Noble-Metal-Free Multicomponent Nanointegration for Sustainable Energy Conversion. Chemical Reviews, 2021, 121, 10271-10366.	23.0	156
13	NiSi₂/p-Si Schottky Junction Photocathode with a High-Quality Epitaxial Interface for Efficient Hydrogen Evolution. ACS Applied Energy Materials, 2021, 4, 11574-11579.	2.5	4
14	Large-scale stationary hydrogen storage via liquid organic hydrogen carriers. IScience, 2021, 24, 102966.	1.9	93
15	Large electrocaloric and pyroelectric energy harvesting effect over a broad temperature range via modulating the relaxor behavior in non-relaxor ferroelectrics. Journal of Materials Chemistry A, 2021, 9, 22015-22024.	5.2	6
16	Microwave Dielectric Materials with Defect-Dipole Clusters Induced Colossal Permittivity and Ultra-low Loss. ACS Applied Electronic Materials, 2021, 3, 5015-5022.	2.0	8
17	Hole-Pinned Defect Clusters for a Large Dielectric Constant up to GHz in Zinc and Niobium Codoped Rutile SnO₂. ACS Applied Materials & Interfaces, 2021, 13, 54124-54132.	4.0	9
18	BiOBr Microâ€“Nanosheets: Controllable Synthesis and Piezoelectric and Photoelectric Properties. Crystal Growth and Design, 2021, 21, 7179-7185.	1.4	6

#	Article	IF	Citations
19	Role of A-Site Molecular Ions in the Polar Functionality of Metalâ€“Organic Framework Perovskites. Chemistry of Materials, 2021, 33, 9666-9676.	3.2	3
20	Heterogeneous photocatalytic decomposition of per- and poly-fluoroalkyl substances: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 523-547.	6.6	13
21	Understanding the role of electrons in the magnetism of a colossal permittivity dielectric material. Materials Horizons, 2020, 7, 188-192.	6.4	1
22	Interface-Charge Induced Giant Electrocaloric Effect in Lead Free Ferroelectric Thin-Film Bilayers. Nano Letters, 2020, 20, 1262-1271.	4.5	95
23	High performance bulk photovoltaics in narrow-bandgap centrosymmetric ultrathin films. Materials Horizons, 2020, 7, 898-904.	6.4	6
24	Porous-CdS/Cu2O/graphitic-C3N4 dual p-n junctions as highly efficient photo/catalysts for degrading ciprofloxacin and generating hydrogen using solar energy. Chemical Engineering Journal, 2020, 385, 123710.	6.6	84
25	Structural refinement and impedance spectroscopy of lead-free (K,Na) (Nb)O3-xBiErO3 piezoelectric ceramics. Physica B: Condensed Matter, 2020, 581, 411949.	1.3	2
26	In Situ Formation of Mixedâ€Dimensional Surface Passivation Layers in Perovskite Solar Cells with Dualâ€Isomer Alkylammonium Cations. Small, 2020, 16, e2005022.	5.2	34
27	Structure-Driven, Ferroelectric Wake-Up Effect for Electrical Fatigue Relief. Chemistry of Materials, 2020, 32, 6456-6463.	3.2	12
28	Natural liquid organic hydrogen carrier with low dehydrogenation energy: A first principles study. International Journal of Hydrogen Energy, 2020, 45, 32089-32097.	3.8	11
29	Piezoelectric Responses of Mechanically Exfoliated Two-Dimensional SnS₂ Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 51662-51668.	4.0	45
30	Janus Conductive/Insulating Microporous Ion-Sieving Membranes for Stable Liâ€“S Batteries. ACS Nano, 2020, 14, 13852-13864.	7.3	74
31	Magnetic ordering and spin dynamics in the S=52 staggered triangular lattice antiferromagnet Ba2MnTeO6. Physical Review B, 2020, 102, .	1.1	5
32	Lead-free (Ag,K)NbO ₃ materials for high-performance explosive energy conversion. Science Advances, 2020, 6, eaba0367.	4.7	38
33	Synthesis, structure and dielectric properties of the Sr₃Ti_{1â^'x}Zr_xNb₄O₁₅, (0 â‰¤ x â‰¤ 1), series of tungsten bronze type compounds. CrystEngComm, 2020, 22, 4994-5001.	1.3	3
34	Reversible single crystal-to-single crystal double [2+2] cycloaddition induces multifunctional photo-mechano-electrochemical properties in framework materials. Nature Communications, 2020, 11, 2808.	5.8	46
35	Tunable Optoelectronic Properties of WS₂ by Local Strain Engineering and Folding. Advanced Electronic Materials, 2020, 6, 1901381.	2.6	38
36	Evidence of phase coexistence in hydrothermally synthesized K_{0.5}Na_{0.5}NbO₃ nanofibers. Journal of Materials Chemistry A, 2020, 8, 8731-8739.	5.2	11

#	Article	IF	Citations
37	Reinvestigation of the photostrictive effect in lanthanumâ€modified lead zirconate titanate ferroelectrics. Journal of the American Ceramic Society, 2020, 103, 4074-4082.	1.9	17
38	High Efficiency Perovskiteâ€Silicon Tandem Solar Cells: Effect of Surface Coating versus Bulk Incorporation of 2D Perovskite. Advanced Energy Materials, 2020, 10, 1903553.	10.2	110
39	Chemical Synthesis and High-Pressure Reaction of Nb⁵⁺ Monodoped Rutile TiO₂ Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 12808-12815.	1.5	6
40	Defect structure and property consequence when small Li+ ions meet BaTiO3. Physical Review Materials, 2020, 4, .	0.9	1
41	Introduction of TiO₂ in CuI for Its Improved Performance as a p-Type Transparent Conductor. ACS Applied Materials & Interfaces, 2019, 11, 24254-24263.	4.0	33
42	The effect of grain boundary on the visible light absorption of BaTi_{1â€x}[Ni_{1/2}Nb_{1/2}]_xO_{3â€Î´} ferroelectric ceramics. Journal of the American Ceramic Society, 2019, 102, 7405-7413.	1.9	16
43	Collective nonlinear electric polarization via defect-driven local symmetry breaking. Materials Horizons, 2019, 6, 1717-1725.	6.4	25
44	Colossal permittivity of (Li, Nb) co-doped TiO2 ceramics. Ceramics International, 2019, 45, 11920-11926.	2.3	41
45	Spin-wave propagation in Î±-Fe₂O₃ nanorods: the effect of confinement and disorder. Journal of Physics Condensed Matter, 2019, 31, 184003.	0.7	2
46	Dielectric relaxation and resistive switching of Bi0.96Sr0.04Fe0.98Co0.02O3/CoFe2O4 thin films with different thicknesses of the Bi0.96Sr0.04Fe0.98Co0.02O3 layer. Ceramics International, 2019, 45, 3522-3530.	2.3	8
47	Highly Efficient Visible Light Catalysts Driven by Ti³⁺â€V_Oâ€2Ti⁴⁺â€N^{3â^’} Defect Clusters. ChemNanoMat, 2019, 5, 169-174.	1.9	3
48	Symmetry-mode analysis for intuitive observation of structureâ€“property relationships in the lead-free antiferroelectric (1â^’x)AgNbO₃â€“xLiTaO₃. IUCrJ, 2019, 6, 740-750.	1.0	11
49	Study of the B-site ion behaviour in the multiferroic perovskite bismuth iron chromium oxide. Journal of Applied Physics, 2018, 123, 154104.	1.1	5
50	High performance Bi0.5Na0.5TiO3-BiAlO3-K0.5Na0.5NbO3 lead-free pyroelectric ceramics for thermal detectors. Applied Physics Letters, 2018, 112, 142903.	1.5	28
51	Structure, dielectric and ferroelectric properties of lead-free (Ba,Ca)(Ti,Zr)O3-xBiErO3 piezoelectric ceramics. Ceramics International, 2018, 44, 6872-6877.	2.3	6
52	Structure, dielectric and ferroelectric properties of lead free (K,Na)(Nb)O3-xBiErO3 piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 7142-7151.	1.1	4
53	Above-Band Gap Photoinduced Stabilization of Engineered Ferroelectric Domains. ACS Applied Materials & Interfaces, 2018, 10, 12781-12789.	4.0	26
54	Magnetic structure and spin correlations in magnetoelectric honeycomb <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	1.1	19

#	Article	IF	Citations
55	Anomalous Photovoltaic Effect in Centrosymmetric Ferroelastic BiVO₄. Advanced Materials, 2018, 30, e1801619.	11.1	45
56	Approaching Piezoelectric Response of Pb-Piezoelectrics in Hydrothermally Synthesized Bi_{0.5}(Na_{1â€“x}K_x)_{0.5}TiO₃ Nanotubes. ACS Applied Materials & Interfaces, 2018, 10, 20816-20825.	4.0	12
57	Earth-abundant transition metal oxides with extraordinary reversible oxygen exchange capacity for efficient thermochemical synthesis of solar fuels. Nano Energy, 2018, 50, 347-358.	8.2	40
58	Resistive switching and ferroelectric properties in BiFeO3 superlattice films. Materials Letters, 2018, 228, 13-16.	1.3	6
59	A General Strategy to Achieve Colossal Permittivity and Low Dielectric Loss Through Constructing Insulator/Semiconductor/Insulator Multilayer Structures. Journal of Low Temperature Physics, 2018, 192, 346-358.	0.6	3
60	The upper Manganese doping limit and its effects on physical properties of lead-free Bi0.5Na0.5TiO3 ceramics. Ceramics International, 2018, 44, 12767-12773.	2.3	10
61	Antiferroelectrics for Energy Storage Applications: a Review. Advanced Materials Technologies, 2018, 3, 1800111.	3.0	334
62	Photovoltaic Effect of a Ferroelectric-Luminescent Heterostructure under Infrared Light Illumination. ACS Applied Materials & Interfaces, 2018, 10, 29786-29794.	4.0	8
63	Soft phonon modes and diffuse scattering in Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 relaxor ferroelectrics. Journal of Materiomics, 2018, 4, 345-352.	2.8	5
64	Novel insight into the structure and properties of lead-free dielectric Sr₃TiNb₄O₁₅. Journal of Materials Chemistry C, 2018, 6, 8890-8896.	2.7	5
65	Giant thermally-enhanced electrostriction and polar surface phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> nanocrystals	0.9	12
66	The Formation of Defectâ€Pairs for Highly Efficient Visibleâ€Light Catalysts. Advanced Materials, 2017, 29, 1605123.	11.1	43
67	Colossal permittivity with ultralow dielectric loss in In + Ta co-doped rutile TiO₂. Journal of Materials Chemistry A, 2017, 5, 5436-5441.	5.2	123
68	Electric field tunable thermal stability of energy storage properties of PLZST antiferroelectric ceramics. Journal of the American Ceramic Society, 2017, 100, 2382-2386.	1.9	30
69	Pressure driven depolarization behavior of Bi0.5Na0.5TiO3 based lead-free ceramics. Applied Physics Letters, 2017, 110, .	1.5	25
70	Trans-Regime Structural Transition of (In³⁺ + Nb⁵⁺) Co-Doped Anatase TiO₂ Nanocrystals under High Pressure. Crystal Growth and Design, 2017, 17, 2529-2535.	1.4	11
71	Colossal permittivity and dielectric relaxation of (Li, In) Co-doped ZnO ceramics. Journal of Alloys and Compounds, 2017, 698, 200-206.	2.8	35
72	Colossal permittivity behavior and its origin in rutile (Mg1/3Ta2/3)xTi1-xO2. Scientific Reports, 2017, 7, 9950.	1.6	60

#	Article	IF	Citations
73	Design Synthesis of Nitrogen-Doped TiO₂@Carbon Nanosheets toward Selective Nitroaromatics Reduction under Mild Conditions. ACS Catalysis, 2017, 7, 6991-6998.	5.5	31
74	Bimetallic Ions Codoped Nanocrystals: Doping Mechanism, Defect Formation, and Associated Structural Transition. Journal of Physical Chemistry Letters, 2017, 8, 3249-3255.	2.1	18
75	Time-Disordered Crystal Structure of AlPO₄-5. Journal of Physical Chemistry C, 2017, 121, 18762-18770.	1.5	4
76	Interface passivation using ultrathin polymerâ€“fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. Energy and Environmental Science, 2017, 10, 1792-1800.	15.6	381
77	Understanding the Unusual Response to High Pressure in KBe2BO3F2. Scientific Reports, 2017, 7, 4027.	1.6	2
78	Giant linear strain gradient with extremely low elastic energy in a perovskite nanostructure array. Nature Communications, 2017, 8, 15994.	5.8	82
79	Direct role of the coupling between octahedral rotation and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math>-site ionic displacements in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PbZr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>-based antiferroelectric materials investigated byin situneutron diffraction. Physical Review B, 2017, 9	1.1	20
80	Large piezoelectric properties in KNN-based lead-free single crystals grown by a seed-free solid-state crystal growth method. Applied Physics Letters, 2016, 108, .	1.5	54
81	Fullerene modification of Ag₃PO₄ for the visible-light-driven degradation of acid red 18. RSC Advances, 2016, 6, 85962-85969.	1.7	15
82	Electric-field-induced AFE-FE transitions and associated strain/preferred orientation in antiferroelectric PLZST. Scientific Reports, 2016, 6, 23659.	1.6	24
83	Dipolar glass and magneto-electric coupling within a Ï€-stacked organic system. Journal of Materials Chemistry C, 2016, 4, 6090-6095.	2.7	4
84	Susceptible Ferroelectric/Antiferroelectric Phase Transition near the Surface of Nb-Doped Lead Zirconate Stannate Titanate from Surface Processing. ACS Applied Materials & Interfaces, 2016, 8, 14313-14317.	4.0	17
85	Selective separation of oil and water with mesh membranes by capillarity. Advances in Colloid and Interface Science, 2016, 235, 46-55.	7.0	64
86	Large Piezoelectricity and Ferroelectricity in Mnâ€Ðoped (Bi_{0.5}Na_{0.5})TiO₃â€BaTiO₃ Thin Film Prepared by Pulsed Laser Deposition. Journal of the American Ceramic Society, 2016, 99, 2347-2353.	1.9	27
87	A New n = 4 Layered Ruddlesdenâ€“Popper Phase K_{2.5}Bi_{2.5}Ti₄O₁₃ Showing Stoichiometric Hydration. Inorganic Chemistry, 2016, 55, 1403-1411.	1.9	14
88	Ag₃PO₄ immobilized on hydroxy-metal pillared montmorillonite for the visible light driven degradation of acid red 18. Catalysis Science and Technology, 2016, 6, 4116-4123.	2.1	35
89	Growth mechanism and enhanced electrical properties of K 0.5 Na 0.5 NbO 3 -based lead-free piezoelectric single crystals grown by a solid-state crystal growth method. Journal of the European Ceramic Society, 2016, 36, 541-550.	2.8	36
90	A Facile Strategy for the Functionalization of Boron Nitride Nanotubes with Pd Nanoparticles. Journal of Nanomaterials, 2015, 2015, 1-5.	1.5	0

#	Article	IF	Citations
91	Self-assembly dynamics and accumulation mechanisms of ultra-fine nanoparticles. Nanoscale, 2015, 7, 9859-9867.	2.8	45
92	Energy and temperature dependence of rigid unit modes in AlPO₄-5. Physical Chemistry Chemical Physics, 2015, 17, 21547-21554.	1.3	4
93	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 7761-7766.	1.3	61
94	Colossal Dielectric Permittivity in (Nb+Al) Codoped Rutile TiO₂ Ceramics: Compositional Gradient and Local Structure. Chemistry of Materials, 2015, 27, 4934-4942.	3.2	189
95	Large electric-field-induced strain in centrosymmetric crystals of a dipolar ruthenium alkynyl complex. Physical Chemistry Chemical Physics, 2015, 17, 10781-10785.	1.3	4
96	Synthesis and chemical modifications of in-situ grown anatase TiO2 microspheres with isotropically exposed {0 0 1} facets for superhydrophobic and self-cleaning properties. Applied Surface Science, 2015, 357, 2022-2027.	3.1	8
97	Colossal Dielectric Behavior of Ga+Nb Co-Doped Rutile TiO₂. ACS Applied Materials & Interfaces, 2015, 7, 25321-25325.	4.0	196
98	Colossal permittivity properties of Zn,Nb co-doped TiO₂with different phase structures. Journal of Materials Chemistry C, 2015, 3, 11005-11010.	2.7	98
99	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oilâ€Polluted Water Cleanup. Advanced Materials Interfaces, 2015, 2, 1400267.	1.9	125
100	Superhydrophobic and Superoleophilic Boron Nitride Nanotubeâ€Coated Stainless Steel Meshes for Oil and Water Separation. Advanced Materials Interfaces, 2014, 1, 1300002.	1.9	107
101	Patterned photochemical deposition on domain engineered ferroelectric single crystals. , 2014, , .		0
102	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. Polymer, 2014, 55, 5616-5622.	1.8	36
103	Interface engineering of highly efficient perovskite solar cells. Science, 2014, 345, 542-546.	6.0	5,936
104	Atomic-scale control of TiO6 octahedra through solution chemistry towards giant dielectric response. Scientific Reports, 2014, 4, 6582.	1.6	62
105	Observation of short-lived local polar states induced by applied tip biases in BaTiO₃-based relaxor ferroelectric ceramics. Applied Physics Letters, 2013, 103, 022904.	1.5	8
106	Nanoâ€Imprinted Ferroelectric Polymer Nanodot Arrays for High Density Data Storage. Advanced Functional Materials, 2013, 23, 3124-3129.	7.8	82
107	Ferroelectric Domain Engineered Photochemical Deposition for Areaâ€Selectable Broadband Enhancement of Quantum Dot Photoluminescence. Advanced Optical Materials, 2013, 1, 720-723.	3.6	4
108	On-chip investigation of cellâ€“drug interactions. Advanced Drug Delivery Reviews, 2013, 65, 1556-1574.	6.6	33

#	Article	IF	Citations
109	Microstructure development in electrospun carbon nanotube reinforced polyvinylidene fluoride fibers and its influence on tensile strength and dielectric permittivity. Composites Science and Technology, 2013, 88, 1-8.	3.8	70
110	Ca-Doping of BiFeO₃: The Role of Strain in Determining Coupling between Ferroelectric Displacements, Magnetic Moments, Octahedral Tilting, and Oxygen-Vacancy Ordering. Chemistry of Materials, 2013, 25, 4436-4446.	3.2	41
111	Ferroelectric memristor based on Pt/BiFeO3/Nb-doped SrTiO3 heterostructure. Applied Physics Letters, 2013, 102, .	1.5	143
112	Chessboard/Diamond Nanostructures and the A-site Deficient, Li_{1/2â€“3x} Nd_{1/2+x}TiO₃, Defect Perovskite Solid Solution. Chemistry of Materials, 2013, 25, 190-201.	3.2	18
113	Diisopropylammonium Bromide Is a High-Temperature Molecular Ferroelectric Crystal. Science, 2013, 339, 425-428.	6.0	703
114	Humidity sensing properties of single Au-decorated boron nitride nanotubes. Electrochemistry Communications, 2013, 30, 29-33.	2.3	40
115	Electron-pinned defect-dipoles for high-performance colossal permittivity materials. Nature Materials, 2013, 12, 821-826.	13.3	784
116	Domain-selective photochemical reaction on oriented ferroelectric Pb(In1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3 single crystals. Applied Surface Science, 2013, 265, 157-161.	3.1	7
117	Dipolar-glass-like relaxor ferroelectric behaviour in the 0.5BaTiO3-0.5Bi(Mg1/2Ti1/2)O3 electroceramic. Applied Physics Letters, 2013, 103, .	1.5	24
118	A Novel Mineralizer-Facilitated, Composition-Controllable Route to the Synthesis of Small Cubes of Bismuth Sodium Potassium Titanate. Integrated Ferroelectrics, 2013, 144, 169-175.	0.3	3
119	Ferroelastic aspects of relaxor ferroelectric behaviour in Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 perovskite. Journal of Applied Physics, 2013, 113, 124102.	1.1	19
120	Structural transitions in [001]/[111]-oriented 0.26Pb(In1/2Nb1/2)O3-0.46Pb(Mg1/3Nb2/3)O3-0.28PbTiO3 single crystals probed via neutron diffraction and electrical characterization. Journal of Applied Physics, 2013, 113, 154104.	1.1	8
121	Phase Relations inBa6â^'3xLn8+2xTi18O54(Ln = Nd & Sm) Electroceramics. Advances in Condensed Matter Physics, 2013, 2013, 1-7.	0.4	1
122	Structural Disorder in the Key Lead-Free Piezoelectric Materials, and. Advances in Condensed Matter Physics, 2013, 2013, 1-5.	0.4	0
123	Effect of Electric Field and Temperature on Average Structure and Domain Wall Motion in 0.93Bi0.5Na0.5TiO3-0.07BaTiO3Ceramic. Advances in Condensed Matter Physics, 2013, 2013, 1-4.	0.4	0
124	Piezoresponse force microscopy studies on the domain structures and local switching behavior of Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 single crystals. Journal of Applied Physics, 2012, 112, 052006.	1.1	26
125	The Effect of Ta Doping on the Phase Transitions and the Piezoelectric and Ferroelectric Properties of K0.35Na0.65NbO3. Ferroelectrics, 2012, 429, 95-102.	0.3	7
126	Ferroelectric and octahedral tilt twin disorder and the lead-free piezoelectric, sodium potassium niobate system. Journal of Solid State Chemistry, 2012, 195, 55-62.	1.4	10

#	Article	IF	Citations
127	Temperature-dependent electrical, elastic and magnetic properties of solâ€“gel synthesized Bi0.9Ln0.1FeO3(Ln = Nd, Sm). Journal of Physics Condensed Matter, 2012, 24, 125901.	0.7	14
128	Sillenâ€“Aurivillius Intergrowth Phases as Templates for Naturally Layered Multiferroics. Chemistry of Materials, 2012, 24, 3932-3942.	3.2	28
129	Switching spectroscopic measurement of surface potentials on ferroelectric surfaces via an open-loop Kelvin probe force microscopy method. Applied Physics Letters, 2012, 101, .	1.5	14
130	LOCAL MICROSTRUCTURE EVOLUTION OF BISMUTH SODIUM TITANATE-BASED LEAD-FREE PIEZOELECTRIC SYSTEMS ACROSS THE MORPHOTROPIC PHASE BOUNDARY REGION. Journal of Advanced Dielectrics, 2012, 02, 1230012.	1.5	6
131	In-situ neutron diffraction study of Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 single crystals under uniaxial mechanical stress. Journal of Applied Physics, 2012, 111, 084110.	1.1	7
132	Phase analysis and microwave dielectric properties of BaOâ€“Nd2O3â€“5TiO2 composite ceramics using variable size TiO2 reagents. Ceramics International, 2012, 38, S153-S157.	2.3	7
133	Response of intergrown microstructure to an electric field and its consequences in the lead-free piezoelectric bismuth sodium titanate. Journal of Solid State Chemistry, 2012, 187, 309-315.	1.4	24
134	Preparation and potential application of boron nitride nanocups. Materials Letters, 2012, 80, 148-151.	1.3	14
135	One-dimensional multiferroic bismuth ferrite fibers obtained by electrospinning techniques. Nanotechnology, 2011, 22, 235702.	1.3	41
136	K0.46Na0.54NbO3 ferroelectric ceramics: chemical synthesis, electro-mechanical characteristics, local crystal chemistry and elastic anomalies. Dalton Transactions, 2011, 40, 5066.	1.6	21
137	Composition-Induced Antiferroelectric Phase and Giant Strain in lead-free <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (mathvariant="normal">Na<	1.1	135
138	Large Electric Field-Induced Strain and Antiferroelectric Behavior in (1-x)(Na_{0.5}Bi_{0.5})TiO₃-xBaTiO₃ Ceramics. Chemistry of Materials, 2011, 23, 219-228.	3.2	178
139	Raman spectra, photoluminescence and dielectric relaxation in Bi1.5ZnNb1.5O7 pyrochlore. Current Applied Physics, 2011, 11, S171-S174.	1.1	16
140	Electrospinning induced ferroelectricity in poly(vinylidene fluoride) fibers. Nanoscale, 2011, 3, 3068.	2.8	163
141	Nanoscale investigation of ferroelectric properties in electrospun barium titanate/polyvinylidene fluoride composite fibers using piezoresponse force microscopy. Composites Science and Technology, 2011, 71, 1435-1440.	3.8	91
142	A two-step approach towards solar-driven water splitting. Electrochemistry Communications, 2011, 13, 28-30.	2.3	18
143	Design of a novel disposable piezoelectric co-polymer diaphragm based biosensor unit. Materials Science and Engineering C, 2011, 31, 95-98.	3.8	7
144	A correlated electron diffraction, in situ neutron diffraction and dielectric properties investigation of poled (1-x)Bi0.5Na0.5TiO3-xBaTiO3 ceramics. Journal of Applied Physics, 2011, 110, .	1.1	21

#	Article	IF	Citations
145	Fully-inverted piezoresponse hysteresis loops mediated by charge injection in 0.29Pb(In1/2Nb1/2)O3â€“0.44Pb(Mg1/3Nb2/3)O3â€“0.27PbTiO3 single crystals. Applied Physics Letters, 2011, 98, .	1.5	28
146	A careful phase analysis and TEM investigation of the incommensurately modulated, (Bi1â^'xMII)FeIIIO3â^'x/2(M= Ca and Sr), solid solution phases. Journal of Physics: Conference Series, 2010, 226, 012015.	0.3	4
147	Elastic anomalies due to structural phase transitions in mechanoluminescent SrAl2O4:Eu. Journal of Applied Physics, 2010, 107, .	1.1	23
148	Lead magnesium niobate-lead titanate piezoelectric immunosensors. Sensors and Actuators A: Physical, 2010, 163, 82-87.	2.0	5
149	An orthophosphate semiconductor with photooxidation properties under visible-lightÂirradiation. Nature Materials, 2010, 9, 559-564.	13.3	1,807
150	Morphology, structure, optical, and electrical properties of AgSbO3. Journal of Applied Physics, 2010, 108, 024911.	1.1	5
151	Giant Magnetodielectric Effect in 0â^'3 Ni_{0.5}Zn_{0.5}Fe₂O₄-Poly(vinylidene-fluoride) Nanocomposite Films. Journal of Physical Chemistry C, 2010, 114, 13861-13866.	1.5	77
152	Cathodoluminescence of boron nitride nanotubes doped by ytterbium. Journal of Alloys and Compounds, 2010, 504, S353-S355.	2.8	13
153	Structural Disorder, Polarisation and the Normal to Relaxor Ferroelectric Transition in BaTiO₃Based Perovskites. Ferroelectrics, 2010, 402, 3-9.	0.3	8
154	Distortion modes and related ferroic properties of the stuffed tridymite-type compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrAl</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaAl</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:. Physical Review B, 2009, 79, .	1.1	33
155	Displacive disorder and dielectric relaxation in the stoichiometric bismuth-containing pyrochlores, Bi2MIIINbO7 (M=In and Sc). Journal of Solid State Chemistry, 2009, 182, 2748-2755.	1.4	34
156	Electrical characteristics of BaTiO3/ Bi0.5K0.5TiO3 multilayered thin films synthesized via metalloorganic decomposition. Solid State Ionics, 2009, 180, 1118-1120.	1.3	3
157	Structured diffuse scattering and the fundamental 1-d dipolar unit in PLZT (Pb1â^'yLay)1â^'Î±(Zr1â^'xTix)1â^'Î²O3 (7.5/65/35 and 7.0/60/40) transparent ferroelectric ceramics. Journal of Solid State Chemistry, 2009, 182, 348-355.	1.4	19
158	Detailed Phase Analysis and Crystal Structure Investigation of a Bi1â^'xCaxFeO3â^'x/2 Perovskite-Related Solid Solution Phase and Selected Property Measurements Thereof. Chemistry of Materials, 2009, 21, 4223-4232.	3.2	42
159	Structural disorder in BZN-based pyrochlores. Journal of Electroceramics, 2008, 21, 401-404.	0.8	5
160	Rare-earth doped boron nitride nanotubes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 189-192.	1.7	10
161	On the microstructure and symmetry of apparently hexagonal BaAl2O4. Journal of Solid State Chemistry, 2008, 181, 1816-1823.	1.4	32
162	Over 1.0mm-long boron nitride nanotubes. Chemical Physics Letters, 2008, 463, 130-133.	1.2	51

#	Article	IF	Citations
163	Relaxor dielectric properties of a (Ca1.5Ti0.5)(NbTi)O7 â€˜misplaced-displaciveâ€™ cubic pyrochlore synthesised via metallorganic decomposition. Solid State Communications, 2008, 145, 72-76.	0.9	12
164	Coexistence of ferroelectricity and magnetism in transition-metal-doped n = 3 Aurivillius phases. Journal of Physics Condensed Matter, 2008, 20, 025215.	0.7	12
165	The crystal chemistry of Fe-bearing sphalerites: An infrared spectroscopic study. American Mineralogist, 2008, 93, 591-597.	0.9	31
166	Structurally frustrated polar nanoregions in BaTaO2N and the relationship between its high dielectric permittivity and that of BaTiO3. Applied Physics Letters, 2008, 92, .	1.5	42
167	Ferroelectric and non-linear dielectric characteristics of Bi0.5Na0.5TiO3 thin films deposited via a metallorganic decomposition process. Journal of Applied Physics, 2008, 104, .	1.1	46
168	Structurally frustrated polar nanoregions in BaTiO3-based relaxor ferroelectric systems. Applied Physics Letters, 2007, 91, 152907.	1.5	57
169	Euâ€•doped Boron Nitride Nanotubes as a Nanometerâ€Sized Visibleâ€Light Source. Advanced Materials, 2007, 19, 1845-1848.	11.1	74
170	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. Optical Materials, 2007, 29, 1295-1298.	1.7	50
171	The local crystal chemistry and dielectric properties of the cubic pyrochlore phase in the Bi2O3M2+ONb2O5 (M2+=Ni2+ and Mg2+) systems. Journal of Solid State Chemistry, 2007, 180, 549-557.	1.4	46
172	Structured diffuse scattering and polar nano-regions in the Ba(Ti1â^'xSnx)O3 relaxor ferroelectric system. Journal of Solid State Chemistry, 2007, 180, 858-865.	1.4	44
173	Cluster chemistry in the solid state: Structured diffuse scattering, oxide/fluoride ordering and polar behaviour in transition metal oxyfluorides. Polyhedron, 2007, 26, 290-299.	1.0	32
174	The disordered structures and low temperature dielectric relaxation properties of two misplaced-displacive cubic pyrochlores found in the Bi2O3â€“MIIOâ€“Nb2O5 (M=Mg, Ni) systems. Journal of Solid State Chemistry, 2007, 180, 2558-2565.	1.4	43
175	A structure and phase analysis investigation of the â€œ1:1â€•ordered A2InNbO6 perovskites (A=Ca2+, Sr2+,) Tj ETQq1 1 0.784314 rgBT	1.4	31
176	Crystal chemistry on a lattice: The case of BZN and BZN-related pyrochlores. Journal of Solid State Chemistry, 2006, 179, 2141-2149.	1.4	32
177	A temperature-dependent structural investigation of electrical transitions in A3conb2o9 perovskites (A=Ca2+, Sr2+, Ba2+). Physica B: Condensed Matter, 2006, 385-386, 558-560.	1.3	1
178	Stacking fault disorder and its diffraction consequences in Ba3MNb2O9 (M=Co and Mn) 1:2 triple perovskites. Physica B: Condensed Matter, 2006, 385-386, 564-566.	1.3	2
179	Local crystal chemistry, structured diffuse scattering and the dielectric properties of (Bi1â^'xYx)2(MIIINbV)O7 (M=Fe3+, In3+) Bi-pyrochlores. Journal of Solid State Chemistry, 2006, 179, 2495-2505.	1.4	28
180	â€˜Softâ€™ phonon modes, structured diffuse scattering and the crystal chemistry of Fe-bearing sphalerites. Journal of Solid State Chemistry, 2005, 178, 655-660.	1.4	7

#	Article	IF	Citations
181	A coupled electron diffraction and rigid unit mode (RUM) study of the crystal chemistry of some zeotypic AlPO4 compounds. Journal of Solid State Chemistry, 2005, 178, 2647-2657.	1.4	6
182	Composition-induced structural phase transitions in the (Ba1â^'xLax)2In2O5+x (0â©½xâ©½0.6) system. Journal of Solid State Chemistry, 2005, 178, 882-891.	1.4	21
183	A combined diffraction and dielectric properties investigation of Ba3MnNb2O9 complex perovskites. Journal of Solid State Chemistry, 2005, 178, 3389-3395.	1.4	18
184	Structurally frustrated relaxor ferroelectric behavior inCaCu3Ti4O12. Physical Review B, 2005, 72, .	1.1	107
185	Room temperature sensing of ozone by transparent p-type semiconductor CuAlO2. Applied Physics Letters, 2004, 85, 1728-1729.	1.5	103
186	Local crystal chemistry, induced strain and short range order in the cubic pyrochlore (Bi1.5â^'Î±Zn0.5â^'Î²)(Zn0.5â^'Î³Nb1.5â^'Î´)O(7â^'1.5Î±â^'Î²â^'Î³â^'2.5Î´) (BZN). Journal of Solid State Chemistry, 2004, 177, 231-244.	1.4	195
187	An electron diffraction and bond valence sum study of the space group symmetries and structures of the photocatalytic 1:2 B site ordered A3CoNb2O9 perovskites (A=Ca2+, Sr2+, Ba2+). Journal of Solid State Chemistry, 2004, 177, 2295-2304.	1.4	23
188	Cubic perovskite-related phases in the ternary SrOâ€“CuOâ€“Nb2O5 system. Journal of Solid State Chemistry, 2004, 177, 3140-3148.	1.4	3
189	Investigation of temperature dependence of photoluminescence in RexY2â^'xSiO5. Optical Materials, 2004, 25, 243-250.	1.7	10
190	An electron diffraction and bond valence sum study of the space group symmetries and structures of the photocatalytic 1:1 ordered A2InNbO6 double perovskites (A=Ca2+, Sr2+, Ba2+). Journal of Solid State Chemistry, 2004, 177, 979-986.	1.4	26
191	A TEM study of Ni ordering in the Ni6Se5â^'xTex, 0<x<â^¼1.7, system. Journal of Solid State Chemistry, 2004, 177, 972-978.	1.4	0
192	A combined temperature-dependent electron and single-crystal X-ray diffraction study of the fresnoite compound Rb2V4+V25+O8. Journal of Solid State Chemistry, 2004, 177, 3316-3323.	1.4	12
193	The pyrochlore to â€˜defect fluoriteâ€™ transition in the Y2(ZryTi1â^'y)2O7 system and its underlying crystal chemistry. Journal of Solid State Chemistry, 2004, 177, 4404-4412.	1.4	54
194	A structure, conductivity and dielectric properties investigation of A3CoNb2O9 (A=Ca2+, Sr2+, Ba2+) triple perovskites. Journal of Solid State Chemistry, 2004, 177, 4428-4442.	1.4	26
195	Flexible phases, modulated structures and the transmission electron microscope. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.4	5
196	Local Strain, Structured Diffuse Scattering and Oxygen/Fluorine Ordering in Transition Metal Oxyfluorides. Ferroelectrics, 2004, 305, 123-126.	0.3	0
197	Electroluminescent ceramics excited by low electrical field. Applied Physics Letters, 2004, 84, 5016-5018.	1.5	42
198	Origin of mechanoluminescence from Mn-activatedZnAl2O4: Triboelectricity-induced electroluminescence. Physical Review B, 2004, 69, .	1.1	80

#	Article	IF	Citations
199	An electron diffraction, XRD and lattice dynamical investigation of the average structure and rigid unit mode (RUM) modes of distortion of microporous AlPO4-5. Solid State Sciences, 2003, 5, 427-434.	1.5	15
200	A TEM, XRD, and crystal chemical investigation of oxygen/vacancy ordering in (Ba1â^'xLax)2In2O5+x, 0â©½xâ©½0.6. Journal of Solid State Chemistry, 2003, 170, 247-254.	1.4	27
201	The metastable Ni7Â±xS6, and mixed Ni6Â±x(S1â^'ySey)5, phases. Journal of Solid State Chemistry, 2003, 170, 351-360.	1.4	6
202	Rigid unit modes (RUMs) of distortion, local crystal chemistry and the inherent displacive flexibility of microporous AlPO4-11. Journal of Solid State Chemistry, 2003, 172, 431-437.	1.4	18
203	A combined diffraction (XRD, electron and neutron) and electrical study of Na3MoO3F3. Journal of Solid State Chemistry, 2003, 174, 450-458.	1.4	29
204	Influence of Calcining Temperature on Photoluminescence and Triboluminescence of Europium-Doped Strontium Aluminate Particles Prepared by Solâ^'Gel Process. Journal of Physical Chemistry B, 2003, 107, 3991-3995.	1.2	106
205	Electron Microscopy and its Application to the Study of Incommensurately Modulated Compositionally and/or Displacively Flexible Phases. Microscopy and Microanalysis, 2002, 8, 306-307.	0.2	0
206	A TEM and RUM study of the inherent displacive flexibility of the fresnoite framework structure type. Physics and Chemistry of Minerals, 2002, 29, 624-632.	0.3	25
207	Influence of calcining temperature on photoluminescence and thermal quenching in europium-doped Y2SiO5 using the MOD process. Journal of Luminescence, 2002, 97, 135-140.	1.5	21
208	Influence of Eu, Dy co-doped strontium aluminate composition on mechanoluminescence intensity. Journal of Luminescence, 2002, 97, 13-18.	1.5	81
209	Composition, structure and luminescent properties of EuxY2â^'xSiO5 thin films. Thin Solid Films, 2002, 415, 10-14.	0.8	2
210	Title is missing!. Journal of Sol-Gel Science and Technology, 2002, 25, 95-101.	1.1	4
211	Title is missing!. Journal of Sol-Gel Science and Technology, 2002, 25, 103-111.	1.1	7
212	Development of porous silica thick films by a new base-catalyzed solâ€“gel route. Materials Letters, 2001, 49, 102-107.	1.3	16
213	Photoluminescence and triboluminescence of PZT materials at room temperature. Ferroelectrics, 2001, 264, 331-336.	0.3	19
214	Multilayer pyroelectric thin film with a gradient thermal insulating layer. Ferroelectrics, 2001, 263, 137-142.	0.3	1
215	Multifunction study of PZT thin films on amorphous and polycrystalline substrates. Ferroelectrics, 2001, 263, 155-160.	0.3	4
216	Novel approach to dynamic imaging of stress distribution with piezoluminescence. Ferroelectrics, 2001, 263, 3-8.	0.3	6

#	Article	IF	Citations
217	Phase analysis of PZT 52/48 thin films by synchrotron XRD. Journal of Materials Science Letters, 2001, 20, 933-935.	0.5	1
218	Preparation and luminescence of rare-earth-activated Y2SiO5 thin films by metallorganic decomposition. Journal of Luminescence, 2000, 87-89, 1297-1299.	1.5	32
219	Title is missing!. Journal of Materials Science, 2000, 35, 937-941.	1.7	13
220	New method for making porous SiO2 thin films. Thin Solid Films, 1999, 353, 124-128.	0.8	75
221	Preparation and characterization of preferred oriented PZT films on amorphous substrates. Journal of Materials Science, 1999, 34, 4129-4132.	1.7	14
222	Properties of pbtio3, La-modified pbtio3 and Pb(Zr,Ti)O3 thin films and their application to infrared detectors. Integrated Ferroelectrics, 1997, 15, 271-279.	0.3	30
223	Nonlinear optical properties of lanthanum doped lead titanate thin film using Zâ€scan technique. Applied Physics Letters, 1996, 69, 458-459.	1.5	36
224	Properties of PLT thin film pyroelectric detectors III. Influences of buffer layer. Infrared Physics and Technology, 1995, 36, 865-868.	1.3	6
225	Pyroelectric properties of PLT thin films. Ferroelectrics, Letters Section, 1995, 19, 107-112.	0.4	1
226	Properties of PLT thin films by thermal decomposition of metallo-organic compounds. Ferroelectrics, 1994, 152, 201-206.	0.3	19
227	Preparation of PLT thin films by thermal decomposition of metallo-organic compounds. Ferroelectrics, 1994, 152, 195-200.	0.3	14
228	Effect of Mineralizer on the Hydrothermal Synthesis of Bi_{0.5}Na_{0.5}TiO₃ Lead-Free Piezoelectric Crystals. Advanced Materials Research, 0, 298, 209-214.	0.3	0