Hanxing Liu

List of Publications by Year in Descending Order

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

114 papers	3,442 citations	27 h-index	57 g-index
125 ext. papers	4,543 ext. citations	4.5 avg, IF	5.62 L-index

#	Paper	IF	Citations
114	Amorphous/Crystalline Engineering of BaTiO3-Based Thin Films for Energy-Storage Capacitors. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 1731-1740	8.3	3
113	Defect controlling of BaTiO3@ NiO double hysteresis loop ceramics with enhanced energy storage capability and stability. *Journal of the European Ceramic Society*, **2022**, 42, 2212-2220	6	0
112	Preparation, characterization, and improvement in the energy storage properties of Bi(Li0.5Ta0.5)O3 modified Na0.5K0.5NbO3 ceramic system. *Materials Research Bulletin*, **2022**, 145, 111521	5.1	2
111	Superior energy storage BaTiO3-based amorphous dielectric film with polymorphic hexagonal and cubic nanostructures. *Chemical Engineering Journal*, **2021**, 431, 133447	14.7	2
110	Modified Pb(Mg1/3Nb2/3)O3-PbZrO3-PbTiO3 ceramics with high piezoelectricity and temperature stability. *Journal of the American Ceramic Society*, **2021**, 104, 5127-5137	3.8	7
109	Fabrication of BaTiO3@FeO core-shell nanoceramics for dielectric capacitor applications. *Scripta Materialia*, **2021**, 196, 113753	5.6	3
108	Significantly Enhanced Energy Storage Density of NNT Ceramics Using Aliovalent Dy3+ Dopant. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 5849-5859	8.3	3
107	Effects of NiO addition on structure and dielectric properties of BaTiO3-based ceramics. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 13539-13548	2.1	1
106	Optimized energy storage properties of BaTiO3-based ceramics with enhanced grain boundary effect. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 14328-14336	2.1	
105	Tuning the microstructure of BaTiO3@FeO core-shell nanoparticles with low temperatures sintering dense nanocrystalline ceramics for high energy storage capability and stability. *Journal of Alloys and Compounds*, **2021**, 864, 158644	5.7	4
104	Accelerated search for ABO3-type the electronic contribution of polycrystalline dielectric constants by machine learning. *Computational Materials Science*, **2021**, 193, 110404	3.2	2
103	Preparation of BaTiO3@NiO core-shell nanoparticles with antiferroelectric-like characteristic and high energy storage capability. *Journal of the European Ceramic Society*, **2021**, 41, 4129-4137	6	8
102	Piezoelectric ceramics with high piezoelectricity and broad temperature usage range. *Journal of Materiomics*, **2021**, 7, 683-692	6.7	10
101	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO ceramics. *Nature Communications*, **2021**, 12, 881	17.4	25
100	Multilayered Ruddlesden–Popper perovskite hybrids with alternative organic spacers of 4-XC6H4C2H4NH2 (where X = H, Br, Cl) for solar cell applications. *Journal of Materials Science*, **2021**, 56, 17167-17177	4.3	1
99	Synergistic Function via Amorphous and Nanoscale Polarization Heterogeneous Regions in (1-x)BaTiO -xBi(Ni Zr)O Thin Film with Ultrahigh Energy Storage Capability and Stability.. *Small Methods*, **2021**, 5, e2100787	12.8	1
98	Improved physics-based structural descriptors of perovskite materials enable higher accuracy of machine learning. *Computational Materials Science*, **2021**, 198, 110714	3.2	3

97	Poorly crystallized Bi(Mg,Zr,Ti)O3 lead-free thin films for energy-storage applications. *Ceramics International*, **2021**, 47, 32357-32363	5.1	1
96	Preparation and Properties of Epoxy Piezoelectric Vibration Reduction Composites. *Journal Wuhan University of Technology, Materials Science Edition*, **2021**, 36, 44-49	1	2
95	Electric property, anti-reduction mechanism of (1 −x)BaTiO3−xBiCoO3−Mn ceramics. *Journal of Materials Research*, **2021**, 36, 1037-1047	2.5	1
94	Improved energy storage properties of La0.33NbO3 modified 0.94Bi0.5Na0.5TiO3-0.06BaTiO3 ceramic system. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	1
93	Defect structure evolution and electrical properties of BaTiO3-based ferroelectric ceramics. *Journal of the American Ceramic Society*, **2020**, 103, 5129-5138	3.8	6
92	A Unique Mechanism for Dielectric-Temperature Stability of BaTiO3-Based Ceramics Using Ba(OH)2/TiO2 Suspension. *Journal of Physical Chemistry C*, **2020**, 124, 14089-14098	3.8	2
91	The role of hydrogen peroxide dipping in structural and electrical properties of calcium strontium titanate-based ceramics. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10390-10397	2.1	1
90	Enhanced dielectric breakdown strength and ultra-fast discharge performance of novel SrTiO3 based ceramics system. *Journal of Alloys and Compounds*, **2020**, 830, 154611	5.7	20
89	Defect chemistry of A site nonstoichiometry and the resulting dielectric behaviors in SrxTi0.985(Nb2/3Zn1/3)0.015O3 ceramics. *Journal of the American Ceramic Society*, **2020**, 103, 6298-6307	3.8	4
88	A progressive learning method for predicting the band gap of ABO3 perovskites using an instrumental variable. *Journal of Materials Chemistry C*, **2020**, 8, 3127-3136	7.1	14
87	Structure and dielectric properties of MgO-coated BaTiO3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8963-8970	2.1	8
86	Impact of Phase Structure on Piezoelectric Properties of Textured Lead-Free Ceramics. *Crystals*, **2020**, 10, 367	2.3	3
85	Lead-free relaxor-ferroelectric ceramics for high-energy-storage applications. *Journal of Materials Chemistry C*, **2020**, 8, 8962-8970	7.1	10
84	High breakdown strength and energy storage performance in (Nb, Zn) modified SrTiO3 ceramics via synergy manipulation. *Journal of Materials Chemistry C*, **2020**, 8, 2019-2027	7.1	26
83	Performance optimization of Mg-rich bismuth-magnesium-titanium thin films for energy storage applications. *Journal of the European Ceramic Society*, **2020**, 40, 1243-1249	6	3
82	High breakdown strength and energy storage density of Er0.02Sr0.97TiO3@MgO2Al2O3SiO2 ceramics with core−shell structure sintered in oxygen atmosphere. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 13408-13414	2.1	2
81	Enthralling Storage Properties of (1−x)La0.03Na0.91NbO3−xBi(Li0.5Nb0.5)O3 Lead-Free Ceramics: High Energy Storage Applications. *Journal of Physical Chemistry C*, **2020**, 124, 21993-22002	3.8	5
80	Defect engineering toward the structures and dielectric behaviors of (Nb, Zn) co-doped SrTiO3 ceramics. *Journal of the European Ceramic Society*, **2020**, 40, 49-55	6	23

79	The role of diffusion behavior on the formation and evolution of the core-shell structure in BaTiO3-based ceramics. *Journal of the American Ceramic Society*, **2020**, 103, 304-314	3.8	4
78	Bimetallic sulfides FexCo1−xS2 as efficient electrocatalysts for Li-O2 batteries. *Functional Materials Letters*, **2020**, 13, 2051015	1.2	2
77	Giant dielectric response in (Nb + Zn) co-doped strontium titanate ceramics tailored by atmosphere. *Scripta Materialia*, **2019**, 170, 166-171	5.6	12
76	Investigation of dielectric and piezoelectric properties in aliovalent Eu3+-modified Pb(Mg1/3Nb2/3)O3-PbTiO3 ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 7428-7435	3.8	29
75	Anomalous Dielectric Nonlinearity in Niobium and Aluminum Co-doped SrTiO3 Ceramics with Giant Permittivity and Low Dielectric Loss. *Journal of Physical Chemistry C*, **2019**, 123, 18142-18149	3.8	5
74	Dielectric and Piezoelectric Properties of Textured Lead-Free Na0.5Bi0.5TiO3-Based Ceramics. *Crystals*, **2019**, 9, 206	2.3	12
73	Energy storage properties of MgO-doped 0.5Bi0.5Na0.5TiO3-0.5SrTiO3 ceramics. *Ceramics International*, **2019**, 45, 14921-14927	5.1	23
72	Influence of Co substitution on the phase, microstructure, and microwave dielectric properties of MgSiO3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 6469-6474	2.1	3
71	(Bi0.51 Na0.47)TiO3 based lead free ceramics with high energy density and efficiency. *Journal of Materiomics*, **2019**, 5, 385-393	6.7	60
70	Nanoindentation study on mechanical properties and curing depth of dental resin nanocomposites. *Polymer Composites*, **2019**, 40, 1473-1480	3	11
69	Structures and dielectric properties of (Nb, Zn) co-doped SrTiO3 ceramics at various sintering temperatures. *Journal of Materials Science*, **2019**, 54, 12401-12410	4.3	11
68	High-Performance Sm-Doped Pb(MgNb)O-PbZrO-PbTiO-Based Piezoceramics. *ACS Applied Materials & Interfaces*, **2019**, 11, 43359-43367	9.5	35
67	Understanding Interfacial Mechanics and Mechanisms of Exfoliation and Stabilization of Graphene Using Urea/Glycerol Solvents. *Advanced Theory and Simulations*, **2019**, 2, 1900155	3.5	5
66	Achieving ultrahigh energy storage performance in bismuth magnesium titanate film capacitors via amorphous-structure engineering. *Journal of Materials Chemistry C*, **2019**, 7, 13632-13639	7.1	22
65	Cerium doped strontium titanate with stable high permittivity and low dielectric loss. *Journal of Alloys and Compounds*, **2019**, 772, 1105-1112	5.7	20
64	Perovskite lead-free dielectrics for energy storage applications. *Progress in Materials Science*, **2019**, 102, 72-108	42.2	558
63	Origin of high dielectric permittivity and low dielectric loss of Sr0.985Ce0.01TiO3 ceramics under different sintering atmospheres. *Journal of Alloys and Compounds*, **2019**, 782, 51-58	5.7	22
62	A novel lead-free bismuth magnesium titanate thin films for energy storage applications. *Journal of the American Ceramic Society*, **2019**, 102, 3819-3822	3.8	14

61	Enhanced energy storage and fast discharge properties of BaTiO3 based ceramics modified by Bi(Mg1/2Zr1/2)O3. *Journal of the European Ceramic Society*, **2019**, 39, 1103-1109	6	111
60	Defect structure and dielectric behavior in SrTi1-x(Zn1/3Nb2/3)xO3 ceramics. *Journal of Alloys and Compounds*, **2019**, 784, 1303-1310	5.7	19
59	Effect of oxygen treatment on structure and electrical properties of Mn-doped Ca 0.6 Sr 0.4 TiO 3 ceramics. *Journal of the European Ceramic Society*, **2018**, 38, 2534-2540	6	20
58	Defect chemistry and dielectric behavior of Sr0.99Ce0.01Ti1□O3 ceramics with high permittivity. *Ceramics International*, **2018**, 44, 12065-12072	5.1	9
57	Characteristics and structure of Mn-doped (0.6 □k)PMT□.4PT□PZ(x = 0.2,0.25) ternary system near morphotropic phase boundary. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 14261-14266	2.1	2
56	Improved breakdown strength and energy storage density of a Ce doped strontium titanate core by silica shell coating. *Journal of Materials Chemistry C*, **2018**, 6, 9130-9139	7.1	35
55	Dandelion-like □MnO2 hollow spheres with superior catalytic performance for Li-O2 batteries by a facile in situ pyrolysis. *Journal of Materials Science*, **2018**, 53, 14525-14535	4.3	6
54	Fine-grained silica-coated barium strontium titanate ceramics with high energy storage. *Ceramics International*, **2018**, 44, 20239-20244	5.1	11
53	Unfolding dielectric breakdown effects on energy storage performances of modified (Sr0.98Ca0.02)(Ti1-xZrx)O3 ceramics. *International Journal of Applied Ceramic Technology*, **2018**, 15, 1030-1039	2	17
52	Phase, Microstructure, and Microwave Dielectric Properties of (Mg0.95Co0.05)(Ti1□Snx)O3 (0.05 □x □0.20) Ceramics. *Journal of Electronic Materials*, **2018**, 47, 7380-7385	1.9	1
51	Effect of Constituent Core-sizes on Microstructure and Dielectric Properties of BaTiO3@(0.6Ba-TiO3-0.4BiAlO3) Core-Shell Material. *Journal Wuhan University of Technology, Materials Science Edition*, **2018**, 33, 589-597	1	1
50	Effects of sintering temperature on microstructure and dielectric properties of Sr0.985Ce0.01TiO3 ceramics. *Journal of Alloys and Compounds*, **2018**, 762, 950-956	5.7	18
49	Origin of low dielectric loss and giant dielectric response in (Nb+Al) co-doped strontium titanate. *Journal of the American Ceramic Society*, **2018**, 101, 5089-5097	3.8	21
48	Mechanism of the giant permittivity in Sm modified SrTiO3 sintered at different atmospheres. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 11546-11552	2.1	1
47	Enhanced energy storage properties of BaTiO3 thin films by Ba0.4Sr0.6TiO3 layers modulation. *Journal of Alloys and Compounds*, **2018**, 765, 362-368	5.7	29
46	2D homologous organic-inorganic hybrids as light-absorbers for planer and nanorod-based perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 162, 93-102	6.4	67
45	Homogeneous/Inhomogeneous-Structured Dielectrics and their Energy-Storage Performances. *Advanced Materials*, **2017**, 29, 1601727	24	615
44	Synthesis and characterization of layered perovskite-type organic-inorganic hybrids (C n H2n+1NH3)2(CH3NH3) m-1Pb m I3m+1 (n=5□0, m=1, 2). *Journal Wuhan University of Technology, Materials Science Edition*, **2017**, 32, 205-212	1	3

43	Thermal annealing effects on the energy storage properties of BST ceramics. *Journal of the American Ceramic Society*, **2017**, 100, 3550-3557	3.8	21
42	Improved energy-storage performance and breakdown enhancement mechanism of Mg-doped SrTiO3 bulk ceramics for high energy density capacitor applications. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 11491-11499	2.1	25
41	Defect structure-electrical property relationship in Mn-doped calcium strontium titanate dielectric ceramics. *Journal of the American Ceramic Society*, **2017**, 100, 4638-4648	3.8	30
40	Dielectric properties and impedance analysis of BaTiO 3 -based ceramics with core-shell structure. *Ceramics International*, **2017**, 43, 8449-8458	5.1	16
39	Microstructure and dielectric properties of SrTiO3 ceramics by controlled growth of silica shells on SrTiO3 nanoparticles. *Ceramics International*, **2017**, 43, 7710-7716	5.1	31
38	The effects of TiO2 addition on the phase formation and microwave dielectric properties of CaLa4Ti5O17 ceramic. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 15552-15555	2.1	4
37	Nb-doped BaTiO3–(Na1/4Bi3/4)(Mg1/4Ti3/4)O3 ceramics with X9R high-temperature stable dielectric properties. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 4204-4210	2.1	9
36	Phase and Microstructure Evaluation and Microwave Dielectric Properties of Mg1− x Ni x SiO3 Ceramics. *Journal of Electronic Materials*, **2016**, 45, 5133-5139	1.9	6
35	Dielectric relaxation behavior and energy storage properties of Sn modified SrTiO3 based ceramics. *Ceramics International*, **2016**, 42, 12796-12801	5.1	62
34	Effect of SiO 2 additive on dielectric response and energy storage performance of Ba 0.4 Sr 0.6 TiO 3 ceramics. *Ceramics International*, **2016**, 42, 12639-12643	5.1	39
33	Structure and electrical properties of lead-free Bi0.5Na0.5TiO3-based ceramics for energy-storage applications. *RSC Advances*, **2016**, 6, 59280-59291	3.7	102
32	Preparation and dielectric properties of X9R core–shell BaTiO3 ceramics coated by BiAlO3–BaTiO3. *Ceramics International*, **2016**, 42, 379-387	5.1	19
31	Electrical properties and relaxation behavior of Bi0.5Na0.5TiO3-BaTiO3 ceramics modified with NaNbO3. *Journal of the European Ceramic Society*, **2016**, 36, 2469-2477	6	68
30	Manufacture and dielectric properties of X9R Bi-based lead-free multilayer ceramic capacitors with AgPd inner electrodes. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 6140-6149	2.1	6
29	A new energy-storage ceramic system based on Bi0.5Na0.5TiO3 ternary solid solution. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 322-329	2.1	41
28	Manganese-Doped BiFeO3–BaTiO3 High-Temperature Piezoelectric Ceramics: Phase Structures and Defect Mechanism. *International Journal of Applied Ceramic Technology*, **2016**, 13, 549-553	2	12
27	Structural and dielectric behavior of giant permittivity SrNbxTi1−xO3 ceramics sintered in nitrogen atmosphere. *Ceramics International*, **2016**, 42, 13593-13600	5.1	34
26	Structures and dielectric properties of Sr0.9775Sm0.015TiO3 ceramics sintered in N2. *Ceramics International*, **2015**, 41, 12945-12949	5.1	21

25	Structure, dielectric and impedance properties of BaTiO3–Bi(Y0.5Yb0.5)O3 lead-free ceramics. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 3215-3222	2.1	8
24	Bath temperature and deposition potential dependences of CuSCN nanorod arrays prepared by electrochemical deposition. *Journal of Materials Science*, **2015**, 50, 7866-7874	4.3	9
23	Dielectric Relaxation in Zr-Doped SrTiO3 Ceramics Sintered in N2 with Giant Permittivity and Low Dielectric Loss. *Journal of the American Ceramic Society*, **2015**, 98, 476-482	3.8	62
22	Design, fabrication and dielectric properties in core–double shell BaTiO3-based ceramics for MLCC application. *RSC Advances*, **2015**, 5, 8868-8876	3.7	29
21	Microstructure, ferro-piezoelectric and thermal stability of SiO2 modified BiFeO3–BaTiO3 high temperature piezoceramics. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 479-484	2.1	7
20	Ultra-Wide Temperature Stable Dielectrics Based on Bi0.5Na0.5TiO3–NaNbO3 System. *Journal of the American Ceramic Society*, **2015**, 98, 3119-3126	3.8	68
19	X9R BaTiO3-Based Dielectric Ceramics with Multilayer Core–Shell Structure Produced by Polymer-Network Gel Coating Method. *Journal of the American Ceramic Society*, **2015**, 98, 690-693	3.8	12
18	Temperature stability of dielectric properties for xBiAlO3–(1 − x)BaTiO3 ceramics. *Journal of the European Ceramic Society*, **2015**, 35, 2303-2311	6	38
17	Dielectric response of 0.85 Ba(Ti0.96Zr0.04)O3–0.15 Bi(Mg0.5Ti0.5)O3 relaxor ferroelectrics under electric field: evolution of PNRs. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9146-9151	2.1	2
16	Effects of Ca doping on the energy storage properties of (Sr, Ca)TiO3 paraelectric ceramics. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 2726-2732	2.1	51
15	Giant permittivity and low dielectric loss of SrTiO3 ceramics sintered in nitrogen atmosphere. *Journal of the European Ceramic Society*, **2014**, 34, 1755-1760	6	88
14	Effect of grain size on the energy storage properties of (Ba0.4Sr0.6)TiO3 paraelectric ceramics. *Journal of the European Ceramic Society*, **2014**, 34, 1209-1217	6	176
13	Structure and Dielectric Properties of BaTiO3–BiYO3 Perovskite Solid Solutions. *Journal of the American Ceramic Society*, **2014**, 97, 1797-1801	3.8	60
12	Effects of Sr/Ti ratio on the microstructure and energy storage properties of nonstoichiometric SrTiO3 ceramics. *Ceramics International*, **2014**, 40, 929-933	5.1	70
11	Synthesis and characterization of layered perovskite-type organic-inorganic hybrids (R-NH3)2(CH3NH3)Pb2I7. *Journal Wuhan University of Technology, Materials Science Edition*, **2012**, 27, 957-961	1	2
10	The influence of fiber type and conformation on the damping property of FRP composite. *Journal Wuhan University of Technology, Materials Science Edition*, **2012**, 27, 450-453	1	1
9	Structure, Dielectric Properties and Temperature Stability of BaTiO3–Bi(Mg1/2Ti1/2)O3 Perovskite Solid Solutions. *Journal of the American Ceramic Society*, **2011**, 94, 3412-3417	3.8	123
8	The Dielectric Properties and Structure of Ni-Doped (0.8-x) PMT-0.2PZ-xPT Ternary System Near Morphotropic Phase Boundary. *Ferroelectrics*, **2010**, 403, 76-81	0.6	0

7	Dielectric, piezoelectric, and electromechanical properties of morphotropic phase boundary compositions in the Pb(Mg1/3Ta2/3)O3–PbZrO3–PbTiO3 ternary system. *Journal of Applied Physics*, **2009**, 105, 024104	2.5	15
6	Structure and ferroelectric property of Nb-doped SrBi4Ti4O15 ceramics. *Journal of Electroceramics*, **2009**, 22, 357-362	1.5	23
5	Structure and mixed electronic-ionic conducting properties of La0.6Sr0.4Co1−y Fe y O3(y=0–1.0) ceramics made by a citrate method. *Journal Wuhan University of Technology, Materials Science Edition*, **2008**, 23, 80-84	1	6
4	Structure, electrical conducting and thermal expansion properties of Ln0.6Sr0.4Co0.8Fe0.2O3 (Ln=La, Pr, Nd, Sm) ceramics. *Journal Wuhan University of Technology, Materials Science Edition*, **2008**, 23, 386-390	1	4
3	Structure and properties of Mg-doped SrBi4Ti4O15 Bi-layered compounds. *Journal Wuhan University of Technology, Materials Science Edition*, **2008**, 23, 675-677	1	0
2	Selectively designed Fe doping of lead-free BaTiO3 piezoceramics. *Journal of Materials Science: Materials in Electronics*,1	2.1	0
1	Energy storage performance of silica-coated k0.5Na0.5NbO3-based lead-free ceramics. *Journal of Materials Science: Materials in Electronics*,1	2.1	0