Hua Hao

List of Publications by Year in Descending Order

58 papers	1,410 citations	17 h-index	37 g-index
61 ext. papers	1,858 ext. citations	3.7 avg, IF	4.62 L-index

#	Paper	IF	Citations
58	Amorphous/Crystalline Engineering of BaTiO3-Based Thin Films for Energy-Storage Capacitors. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 1731-1740	8.3	3
57	Lipoxin A and its analog attenuate high fat diet-induced atherosclerosis via Keap1/Nrf2 pathway.. *Experimental Cell Research*, **2022**, 412, 113025	4.2	1
56	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
55	Significantly Enhanced Energy Storage Density of NNT Ceramics Using Aliovalent Dy3+ Dopant. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 5849-5859	8.3	3
54	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	
53	Progress and perspectives in dielectric energy storage ceramics. *Journal of Advanced Ceramics*, **2021**, 10, 675-703	10.7	20
52	Preparation and Properties of Epoxy Piezoelectric Vibration Reduction Composites. *Journal Wuhan University of Technology, Materials Science Edition*, **2021**, 36, 44-49	1	2
51	Electric property, anti-reduction mechanism of (1 x)BaTiO3 xBiCoO3 Mn ceramics. *Journal of Materials Research*, **2021**, 36, 1037-1047	2.5	1
50	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
49	Defect structure evolution and electrical properties of BaTiO3-based ferroelectric ceramics. *Journal of the American Ceramic Society*, **2020**, 103, 5129-5138	3.8	6
48	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
47	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
46	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
45	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
44	Structure and dielectric properties of MgO-coated BaTiO3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8963-8970	2.1	8
43	Impact of Phase Structure on Piezoelectric Properties of Textured Lead-Free Ceramics. *Crystals*, **2020**, 10, 367	2.3	3
42	Lead-free relaxor-ferroelectric ceramics for high-energy-storage applications. *Journal of Materials Chemistry C*, **2020**, 8, 8962-8970	7.1	10

41	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
40	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
39	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
38	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
37	Dielectric and Piezoelectric Properties of Textured Lead-Free Na0.5Bi0.5TiO3-Based Ceramics. *Crystals*, **2019**, 9, 206	2.3	12
36	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
35	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
34	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
33	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
32	Characteristics and structure of Mn-doped (0.6−x)PMT−0.4PT−xPZ(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
31	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
30	Phase, Microstructure, and Microwave Dielectric Properties of (Mg0.95Co0.05)(Ti1−xSnx)O3 (0.05 ≤ x ≤ 0.20) Ceramics. *Journal of Electronic Materials*, **2018**, 47, 7380-7385	1.9	1
29	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
28	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
27	Homogeneous/Inhomogeneous-Structured Dielectrics and their Energy-Storage Performances. *Advanced Materials*, **2017**, 29, 1601727	24	615
26	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
25	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
24	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

23	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
22	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
21	Preparation and dielectric properties of X9R core–shell BaTiO3 ceramics coated by BiAlO3–BaTiO3. *Ceramics International*, **2016**, 42, 379-387	5.1	19
20	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
19	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
18	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
17	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
16	Design, fabrication and dielectric properties in core–double shell BaTiO3-based ceramics for MLCC application. *RSC Advances*, **2015**, 5, 8868-8876	3.7	29
15	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
14	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
13	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
12	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
11	Structure and Dielectric Properties of BaTiO3–BiYO3 Perovskite Solid Solutions. *Journal of the American Ceramic Society*, **2014**, 97, 1797-1801	3.8	60
10	Fabrication, structure and property of BaTiO3-based dielectric ceramics with a multilayer core–shell structure. *Scripta Materialia*, **2012**, 67, 451-454	5.6	23
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	Theoretical analysis on the structure of Nb-doped SrBi4Ti4O15. *International Journal of Quantum Chemistry*, **2011**, 111, 669-674	2.1	2
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 properties of Mg-doped SrBi4Ti4O15 Bi-layered compounds. *Journal Wuhan University of Technology, Materials Science Edition*, **2008**, 23, 675-677	1	0
4	Dielectric and Piezoelectric Properties of the Morphotropic Phase Boundary Composition in the (0.8) Pb(Mg1/3Ta2/3)O3.2PbZrO3PbTiO3 Ternary System. *Journal of the American Ceramic Society*, **2008**, 91, 2232-2235	3.8	22
3	Lead-Free SrBi4Ti4O15 and Bi4Ti3O12 Material Fabrication Using the Microwave-Assisted Molten Salt Synthesis Method. *Journal of the American Ceramic Society*, **2007**, 90, 1659-1662	3.8	14
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