Xiao Li Zhu

List of Publications by Year
in descending order

52 papers	977 citations	430874 18 h-index	477307 29 g-index
53 all docs	53 docs citations	53 times ranked	654 citing authors

#	Article	IF	Citations
1	Ordered domain engineering and physical property modification of Ba(Co_{1/3}Nb_{2/3})O₃ complex perovskite ceramics. Journal of the American Ceramic Society, 2022, 105, 1159-1172.	3.8	8
2	Modification of physical properties of Ba(Ni1/3Nb2/3)O3 ceramics through ordered domain engineering. Journal of Materiomics, 2022, , .	5.7	3
3	Improving Ï„_f and thermal conductivity of Ba(Zn_{1/3}Nb_{2/3})O₃ microwave dielectric ceramics by ordered domain engineering. Journal of the American Ceramic Society, 2022, 105, 4219-4229.	3.8	8
4	Symmetry evolution and modulation of multiferroic characteristics in Bi_{1â^'}_xLa_xFeO₃ ceramics. Applied Physics Letters, 2022, 120, 132904.	3.3	4
5	Crystal structure, dielectric, and ferroelectric characteristics of zirconate tantalate ceramics with tungsten bronze structure. Journal of Materials Science: Materials in Electronics, 2021, 32, 7481-7490.	2.2	4
6	Recent Advances in Twoâ€Dimensional Heterostructures: From Band Alignment Engineering to Advanced Optoelectronic Applications. Advanced Electronic Materials, 2021, 7, 2001174.	5.1	34
7	Enhanced multiferroic characteristics in hexagonal ScMn1â^'xFexO3 ceramics. Journal of Applied Physics, 2021, 129, 134101.	2.5	0
8	Structure evidence of Pna21 phase and field-induced transition of Pna21/R3c in Bi1â^'xSmxFe0.99Ti0.01O3 ceramics. Applied Physics Letters, 2021, 118, .	3.3	4
9	Ferroelectric transition and structural modulation in Sr2Na(Nb1â^'xTax)5O15 tungsten bronze ceramics. Journal of Applied Physics, 2021, 129, 244107.	2.5	11
10	Roomâ€temperature multiferroic characteristics and unique vortex domain structures of hâ€Yb_{1â^'}_xIn_xFeO₃ solid solutions. Journal of the American Ceramic Society, 2021, 104, 6393-6403.	3.8	4
11	Zeolite ceramics with ordered microporous structure and high crystallinity prepared by cold sintering process. Journal of the American Ceramic Society, 2021, 104, 5521-5528.	3.8	5
12	The involvement of Pna21 phase in the multiferroic characteristics of La/Lu co-substituted BiFeO3 ceramics. Applied Physics Letters, 2021, 119, .	3.3	11
13	Electric-field-controlled magnetism due to field-induced transition of Pna21/R3c in Bi1-xGdxFeO3 ceramics. Journal of Materiomics, 2021, 7, 967-975.	5.7	6
14	Baâ€based complex perovskite ceramics with superior energy storage characteristics. Journal of the American Ceramic Society, 2020, 103, 6389-6399.	3.8	13
15	Crossover from normal to relaxor ferroelectric in Sr0.25Ba0.75(Nb1â^'xTax)2O6 ceramics with tungsten bronze structure. Applied Physics Letters, 2020, 117, .	3.3	11
16	Local Structure Quantification in Tetragonal Tungsten Bronze Structures Utilizing Convolutional Neural Networks. Microscopy and Microanalysis, 2020, 26, 2104-2107.	0.4	0
17	Enhanced hybrid improper ferroelectricity in Sr3â^'xBaxSn2O7 ceramics with a Ruddlesdenâ€“Popper (Râ€“P) structure. Applied Physics Letters, 2020, 116, .	3.3	16
18	Improved dielectric strength and energy storage density in Ba_{6â^'3x}La_{8+2x}Ti₁₈O₅₄ (xÂ=Â0.5, 2/3,) 3j&ETQq0 0 0 rgBT /O		

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19	Ferroelectricity and magnetoelectric coupling in hexagonal Lu0.5In0.5FeO3 ceramics. Journal of Applied Physics, 2019, 126, .	2.5	9
20	Aging effect and metastable ferroelectric state in Ba4Eu2(Ti0.9Zr0.1)4Ta6O30 tetragonal tungsten bronze ceramic. Applied Physics Letters, 2019, 114, 082902.	3.3	3
21	Ba₄R₂Sn₄Nb₆O₃₀ (R = La, Nd, Sm) leadâ€free relaxors with filled tungsten bronze structure. Journal of the American Ceramic Society, 2019, 102, 4721-4729.	3.8	14
22	Energy storage properties in Ba₅LaTi₃Ta₇O₃₀ tungsten bronze ceramics. Journal of the American Ceramic Society, 2019, 102, 3438-3447.	3.8	15
23	Structural and dielectric characteristics of Ba3Ln3Ti5Nb5O30 (Lnâ€‰=â€‰La, Nd, Sm) filled tungsten bronze ceramics. Journal of Applied Physics, 2018, 123, 124106.	2.5	2
24	Electric-field-induced phase transition and pinched Pâ€“E hysteresis loops in Pb-free ferroelectrics with a tungsten bronze structure. NPG Asia Materials, 2018, 10, 71-81.	7.9	38
25	CaTiO₃ linear dielectric ceramics with greatly enhanced dielectric strength and energy storage density. Journal of the American Ceramic Society, 2018, 101, 1999-2008.	3.8	110
26	Relaxor nature in Ba₅RZr₃Nb₇O₃₀ (RÂ=ÂLa, Nd, Sm) tetragonal tungsten bronze new system. Journal of the American Ceramic Society, 2018, 101, 1623-1631.	3.8	28
27	Ferroelectric transitions and relaxor behavior in Ba4Sm2(Ti1-xZrx)4Ta6O30 tungsten bronze ceramics. Journal of Applied Physics, 2018, 124, .	2.5	6
28	Property-structure relationship in lead-free relaxors Ba5RSn3Nb7O30 with tungsten bronze structure. Applied Physics Letters, 2018, 113, 142902.	3.3	7
29	Effects of B site ions on the relaxor to normal ferroelectric transition crossover in Ba4Sm2Zr4(NbxTa1-x)6O30 tungsten bronze ceramics. Applied Physics Letters, 2018, 112, .	3.3	24
30	Oxygen-deficient tungsten bronze Sr4Sm2Ti4+2Nb6â€“2O30- as a temperature-stable dielectric. Ceramics International, 2018, 44, S238-S241.	4.8	0
31	Effects of oxygen-deficiency on crystal structure, dielectric and ferroelectric properties in Sr₅SmTi_{3+2x}Nb_{7â^'2x}O_{30â^'x} with tungsten bronze structure. RSC Advances, 2017, 7, 27370-27376.	3.6	18
32	Crystal structure, ferroelectricity and polar order in a Ba₄R₂Zr₄Nb₆O₃₀ (R = La, Nd, Sm) tetragonal tungsten bronze new system. Journal of Materials Chemistry C, 2017, 5, 4009-4016.	5.5	45
33	Ferroelectric properties and polarization dynamics in Ba4Sm2Ti4Ta6O30 tungsten bronze ceramics. Applied Physics Letters, 2016, 108, .	3.3	14
34	Dielectric and ferroelectric characteristics of Ba 4 Pr 2 Fe 2 Nb 8 O 30 tungsten bronze ceramics. Materials Chemistry and Physics, 2016, 181, 47-53.	4.0	16
35	Variation of ferroelectric hysteresis loop with temperature in (SrxBa1â^'x)Nb2O6 unfilled tungsten bronze ceramics. Journal of Materiomics, 2015, 1, 146-152.	5.7	16
36	Incommensurate and commensurate modulations of Ba5RTi3Nb7O30 (Râ€‰=â€‰La, Nd) tungsten bronzes and the ferroelectric domain structures. Journal of Applied Physics, 2015, 117, 134108.	2.5	16

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37	New Cu₃TeO₆ Ceramics: Phase Formation and Dielectric Properties. ACS Applied Materials & Interfaces, 2014, 6, 11326-11332.	8.0	34
38	Ferroelectric Transition and Lowâ€Temperature Dielectric Relaxations in Filled Tungsten Bronzes. Journal of the American Ceramic Society, 2014, 97, 329-338.	3.8	77
39	Evolution of structure, dielectric properties, and re-entrant relaxor behavior in Ba5LaxSm1â^'xTi3Nb7O30 (xâ€‰=â€‰0.1, 0.25, 0.5) tungsten bronze ceramics. Journal of Applied Physics, 2013, 114, 044106.	2.5	14
40	Re-entrant relaxor behavior of Ba5RTi3Nb7O30 (Râ€‰=â€‰La, Nd, Sm) tungsten bronze ceramics. Applied Physics Letters, 2013, 102, .	3.3	43
41	Relaxor nature in lead-free Sr5LaTi3Nb7O30 tetragonal tungsten bronze ceramics. Journal of Applied Physics, 2013, 114, .	2.5	16
42	Phase transition hysteresis of ferroelectric Sr5EuTi3Nb7O30 ceramics with tetragonal tungsten bronze structure. Journal of Applied Physics, 2012, 111, 044104.	2.5	16
43	Relaxor ferroelectric characteristics of Ba5LaTi3Nb7O30 tungsten bronze ceramics. Applied Physics Letters, 2012, 100, 012902.	3.3	40
44	Effects of Ca-substitution on structural, dielectric, and ferroelectric properties of Ba₅SmTi₃Nb₇O₃₀ tungsten bronze ceramics. Applied Physics Letters, 2012, 101, 042906.	3.3	37
45	Ferroelectric Transition of <scp><scp>Sr</scp></scp>₅<scp><scp>SmTi</scp></scp>₃<scp><scp>Nb</scp></scp>₇<sc Tungsten Bronze Ceramics Investigated Using Differential Scanning Calorimetry and Raman Scattering. Journal of the American Ceramic Society, 2012, 95, 3185-3191.	3.8	31
46	Crystal Structure and Dielectric Properties of Sr5RTi3Nb7O30 (R=La, Nd, Sm, and Eu) Tungsten Bronze Ceramics. Journal of the American Ceramic Society, 2011, 94, 1829-1836.	3.8	44
47	Solubility limits and microwave dielectric properties of Ba6â^'3xSm8+2xTi18O54 solid solution. Ceramics International, 2011, 37, 3575-3581.	4.8	8
48	Ferroelectric phase transition and low-temperature dielectric relaxations in Sr4(La1â^'xSmx)2Ti4Nb6O30 ceramics. Journal of Applied Physics, 2011, 110, .	2.5	8
49	Crystal Structure and Ferroelectric Behaviors of Ba₅SmTi₃Ta₇O₃₀ and Ba₄Sm₂Ti₄Ta₆O₃₀ Tungsten Bronze Ceramics. Journal of the American Ceramic Society, 2010, 93, 782-786.	3.8	18
50	Dielectric and Ferroelectric Characteristics of Ba₅NdFe_{1.5}Nb_{8.5}O₃₀ Tungsten Bronze Ceramics. Journal of the American Ceramic Society, 2010, 93, 3573-3576.	3.8	18
51	Dielectric relaxations, ultrasonic attenuation, and their structure dependence in Sr4(LaxNd1-x)2Ti4Nb6O30 tungsten bronze ceramics. Journal of Materials Research, 2008, 23, 3112-3121.	2.6	23
52	Dielectric relaxation and ultrasonic attenuation of Sr4La2Ti4Nb6O30 tungsten bronze ceramics. Applied Physics Letters, 2007, 90, 182905.	3.3	22