

Xiao Li Zhu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	CaTiO ₃ 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
2	Ferroelectric Transition and Low-temperature Dielectric Relaxations in Filled Tungsten Bronzes. Journal of the American Ceramic Society, 2014, 97, 329-338.	3.8	77
3	Crystal structure, ferroelectricity and polar order in a Ba ₄ R ₂ Zr ₄ Nb ₆ O ₃₀ (R = La, Nd, Sm) tetragonal tungsten bronze new system. Journal of Materials Chemistry C, 2017, 5, 4009-4016.	5.5	45
4	Crystal Structure and Dielectric Properties of Sr ₅ R ₃ Nb ₇ O ₃₀ (R=La, Nd, Sm, and Eu) Tungsten Bronze Ceramics. Journal of the American Ceramic Society, 2011, 94, 1829-1836.	3.8	44
5	Re-entrant relaxor behavior of Ba ₅ R ₃ Nb ₇ O ₃₀ (R=La, Nd, Sm) tungsten bronze ceramics. Applied Physics Letters, 2013, 102, .	3.3	43
6	Relaxor ferroelectric characteristics of Ba ₅ La ₃ Nb ₇ O ₃₀ tungsten bronze ceramics. Applied Physics Letters, 2012, 100, 012902.	3.3	40
7	Electric-field-induced phase transition and pinched P-E hysteresis loops in Pb-free ferroelectrics with a tungsten bronze structure. NPG Asia Materials, 2018, 10, 71-81.	7.9	38
8	Effects of Ca-substitution on structural, dielectric, and ferroelectric properties of Ba ₅ Sm ₃ Nb ₇ O ₃₀ tungsten bronze ceramics. Applied Physics Letters, 2012, 101, 042906.	3.3	37
9	New Cu ₃ TeO ₆ Ceramics: Phase Formation and Dielectric Properties. ACS Applied Materials & Interfaces, 2014, 6, 11326-11332.	8.0	34
10	Recent Advances in Two-dimensional Heterostructures: From Band Alignment Engineering to Advanced Optoelectronic Applications. Advanced Electronic Materials, 2021, 7, 2001174.	5.1	34
11	Ferroelectric Transition of Sr ₅ Sm ₃ Nb ₇ O ₃₀ Tungsten Bronze Ceramics Investigated Using Differential Scanning Calorimetry and Raman Scattering. Journal of the American Ceramic Society, 2012, 95, 3185-3191.	3.8	31
12	Relaxor nature in Ba ₅ R ₃ Nb ₇ O ₃₀ (R=La, Nd, Sm) tetragonal tungsten bronze new system. Journal of the American Ceramic Society, 2018, 101, 1623-1631.	3.8	28
13	Effects of B site ions on the relaxor to normal ferroelectric transition crossover in Ba ₄ Sm ₂ Zr ₄ (Nb _x Ta _{1-x}) ₆ O ₃₀ tungsten bronze ceramics. Applied Physics Letters, 2018, 112, .	3.3	24
14	Dielectric relaxations, ultrasonic attenuation, and their structure dependence in Sr ₄ (La _x Nd _{1-x}) ₂ Ti ₄ Nb ₆ O ₃₀ tungsten bronze ceramics. Journal of Materials Research, 2008, 23, 3112-3121.	2.6	23
15	Dielectric relaxation and ultrasonic attenuation of Sr ₄ La ₂ Ti ₄ Nb ₆ O ₃₀ tungsten bronze ceramics. Applied Physics Letters, 2007, 90, 182905.	3.3	22
16	Crystal Structure and Ferroelectric Behaviors of Ba ₅ Sm ₃ Ta ₇ O ₃₀ and Ba ₄ Sm ₂ Ti ₄ Ta ₆ O ₃₀ Tungsten Bronze Ceramics. Journal of the American Ceramic Society, 2010, 93, 782-786.	3.8	18
17	Dielectric and Ferroelectric Characteristics of Ba ₅ NdFe _{1.5} Nb _{8.5} O ₃₀ Tungsten Bronze Ceramics. Journal of the American Ceramic Society, 2010, 93, 3573-3576.	3.8	18
18	Effects of oxygen-deficiency on crystal structure, dielectric and ferroelectric properties in Sr ₅ Sm _{3+2x} Nb _{7-2x} O _{30-x} with tungsten bronze structure. RSC Advances, 2017, 7, 27370-27376.	3.6	18

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19	Phase transition hysteresis of ferroelectric Sr ₅ EuTi ₃ Nb ₇ O ₃₀ ceramics with tetragonal tungsten bronze structure. Journal of Applied Physics, 2012, 111, 044104.	2.5	16
20	Relaxor nature in lead-free Sr ₅ LaTi ₃ Nb ₇ O ₃₀ tetragonal tungsten bronze ceramics. Journal of Applied Physics, 2013, 114, .	2.5	16
21	Variation of ferroelectric hysteresis loop with temperature in (Sr _x Ba _{1-x})Nb ₂ O ₆ unfilled tungsten bronze ceramics. Journal of Materiomics, 2015, 1, 146-152.	5.7	16
22	Incommensurate and commensurate modulations of Ba ₅ R _{1-x} Ti ₃ Nb ₇ O ₃₀ (R = La, Nd) tungsten bronzes and the ferroelectric domain structures. Journal of Applied Physics, 2015, 117, 134108.	2.5	16
23	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
24	Enhanced hybrid improper ferroelectricity in Sr _{3-x} Ba _x Sn ₂ O ₇ ceramics with a Ruddlesden-Popper (R _n P) structure. Applied Physics Letters, 2020, 116, .	3.3	16
25	Energy storage properties in Ba ₅ LaTi ₃ Ta ₇ O ₃₀ tungsten bronze ceramics. Journal of the American Ceramic Society, 2019, 102, 3438-3447.	3.8	15
26	Evolution of structure, dielectric properties, and re-entrant relaxor behavior in Ba _{5-x} Sm _x Ti ₃ Nb ₇ O ₃₀ (x = 0.1, 0.25, 0.5) tungsten bronze ceramics. Journal of Applied Physics, 2013, 114, 044106.	3.1	14
27	Ferroelectric properties and polarization dynamics in Ba ₄ Sm ₂ Ti ₄ Ta ₆ O ₃₀ tungsten bronze ceramics. Applied Physics Letters, 2016, 108, .	3.3	14
28	Ba ₄ R ₂ Sn ₄ Nb ₆ O ₃₀ (R = La, Nd, Sm) lead-free relaxors with filled tungsten bronze structure. Journal of the American Ceramic Society, 2019, 102, 4721-4729.	3.8	14
29	Ba-based complex perovskite ceramics with superior energy storage characteristics. Journal of the American Ceramic Society, 2020, 103, 6389-6399.	3.8	13
30	Crossover from normal to relaxor ferroelectric in Sr _{0.25} Ba _{0.75} (Nb _{1-x} Tax) ₂ O ₆ ceramics with tungsten bronze structure. Applied Physics Letters, 2020, 117, .	3.3	11
31	Ferroelectric transition and structural modulation in Sr ₂ Na(Nb _{1-x} Tax) ₅ O ₁₅ tungsten bronze ceramics. Journal of Applied Physics, 2021, 129, 244107.	2.5	11
32	The involvement of P ₂₁ phase in the multiferroic characteristics of La/Lu co-substituted BiFeO ₃ ceramics. Applied Physics Letters, 2021, 119, .	3.3	11
33	Ferroelectricity and magnetoelectric coupling in hexagonal Lu _{0.5} In _{0.5} FeO ₃ ceramics. Journal of Applied Physics, 2019, 126, .	2.5	9
34	Solubility limits and microwave dielectric properties of Ba _{6-3x} Sm _{8+2x} Ti ₁₈ O ₅₄ solid solution. Ceramics International, 2011, 37, 3575-3581.	4.8	8
35	Ferroelectric phase transition and low-temperature dielectric relaxations in Sr ₄ (La _{1-x} Sm _x) ₂ Ti ₄ Nb ₆ O ₃₀ ceramics. Journal of Applied Physics, 2011, 110, .	2.5	8
36	Ordered domain engineering and physical property modification of Ba _{1/3} Nb _{2/3} O ₃ complex perovskite ceramics. Journal of the American Ceramic Society, 2022, 105, 1159-1172.	3.8	8

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37	Improving ϵ'' and thermal conductivity of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ microwave dielectric ceramics by ordered domain engineering. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4219-4229.	3.8	8
38	Property-structure relationship in lead-free relaxors $\text{Ba}_5\text{R}_2\text{Sn}_3\text{Nb}_7\text{O}_{30}$ with tungsten bronze structure. <i>Applied Physics Letters</i> , 2018, 113, 142902.	3.3	7
39	Ferroelectric transitions and relaxor behavior in $\text{Ba}_4\text{Sm}_2(\text{Ti}_{1-x}\text{Zr}_x)_4\text{Ta}_6\text{O}_{30}$ tungsten bronze ceramics. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	6
40	Electric-field-controlled magnetism due to field-induced transition of $\text{Pn}21/R3c$ in $\text{Bi}_{1-x}\text{Gd}_x\text{FeO}_3$ ceramics. <i>Journal of Materiomics</i> , 2021, 7, 967-975.	5.7	6
41	Improved dielectric strength and energy storage density in $\text{Ba}_6\text{La}_{8+2x}\text{Ti}_{18}\text{O}_{54}$ ($x=0.5, 2/3$) tungsten bronze ceramics. <i>Journal of Applied Physics</i> , 2021, 124, 074101.	0.7843	14
42	Zeolite ceramics with ordered microporous structure and high crystallinity prepared by cold sintering process. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5521-5528.	3.8	5
43	Crystal structure, dielectric, and ferroelectric characteristics of zirconate tantalate ceramics with tungsten bronze structure. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7481-7490.	2.2	4
44	Structure evidence of $\text{Pn}21$ phase and field-induced transition of $\text{Pn}21/R3c$ in $\text{Bi}_{1-x}\text{Sm}_x\text{Fe}_{0.99}\text{Ti}_{0.01}\text{O}_3$ ceramics. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	4
45	Room-temperature multiferroic characteristics and unique vortex domain structures of $\text{Bi}_2\text{In}_2\text{FeO}_3$ solid solutions. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6393-6403.	3.8	4
46	Symmetry evolution and modulation of multiferroic characteristics in $\text{Bi}_2\text{La}_x\text{FeO}_3$ ceramics. <i>Applied Physics Letters</i> , 2022, 120, 132904.	3.3	4
47	Aging effect and metastable ferroelectric state in $\text{Ba}_4\text{Eu}_2(\text{Ti}_{0.9}\text{Zr}_{0.1})_4\text{Ta}_6\text{O}_{30}$ tetragonal tungsten bronze ceramic. <i>Applied Physics Letters</i> , 2019, 114, 082902.	3.3	3
48	Modification of physical properties of $\text{Ba}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics through ordered domain engineering. <i>Journal of Materiomics</i> , 2022, , .	5.7	3
49	Structural and dielectric characteristics of $\text{Ba}_3\text{Ln}_3\text{Ti}_5\text{Nb}_5\text{O}_{30}$ ($\text{Ln}=\text{La, Nd, Sm}$) filled tungsten bronze ceramics. <i>Journal of Applied Physics</i> , 2018, 123, 124106.	2.5	2
50	Oxygen-deficient tungsten bronze $\text{Sr}_4\text{Sm}_2\text{Ti}_4+2\text{Nb}_6\text{O}_{20}$ as a temperature-stable dielectric. <i>Ceramics International</i> , 2018, 44, S238-S241.	4.8	0
51	Local Structure Quantification in Tetragonal Tungsten Bronze Structures Utilizing Convolutional Neural Networks. <i>Microscopy and Microanalysis</i> , 2020, 26, 2104-2107.	0.4	0
52	Enhanced multiferroic characteristics in hexagonal $\text{ScMn}_2\text{Fe}_x\text{O}_3$ ceramics. <i>Journal of Applied Physics</i> , 2021, 129, 134101.	2.5	0