

Changzheng Hu

List of Publications by Year in descending order

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76
papers

2,455
citations

279798

23
h-index

206112

48
g-index

81
all docs

81
docs citations

81
times ranked

1834
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Behavior of Polar Nanoregions in Reentrant Relaxor $0.6\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3 \sim 0.4\text{PbTiO}_3$. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	8
2	Structure and energy storage performance of lanthanide elements doped AgNbO_3 lead-free antiferroelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2204-2211.	5.7	23
3	Phase engineering in NaNbO_3 antiferroelectrics for high energy storage density. <i>Journal of Materiomics</i> , 2022, 8, 753-762.	5.7	34
4	Structure and relaxor ferroelectric behavior of the novel tungsten bronze type ceramic $\text{Sr}_5\text{BiTi}_3\text{Nb}_7\text{O}_{30}$. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	4
5	Ferroelectricity and Schottky Heterojunction Engineering in AgNbO_3 : A Simultaneous Way of Boosting Piezo-photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22313-22323.	8.0	21
6	Silver stoichiometry engineering: an alternative way to improve energy storage density of AgNbO_3 -based antiferroelectric ceramics. <i>Journal of Materials Research</i> , 2021, 36, 1067-1075.	2.6	13
7	Strong tribocatalytic dye degradation by tungsten bronze $\text{Ba}_4\text{Nd}_2\text{Fe}_2\text{Nb}_8\text{O}_{30}$. <i>Ceramics International</i> , 2021, 47, 5038-5043.	4.8	31
8	Enhancement of dielectric response by the interaction of point defect and grain boundary in copper tantalate oxides. <i>Ceramics International</i> , 2021, 47, 16178-16185.	4.8	8
9	Preparation and dielectric properties of co-contained unfilled tungsten bronze ceramics $\text{Ba}_4\text{RCo}_{0.5}\text{Nb}_{9.5}\text{O}_{30}$. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24939-24952.	2.2	5
10	Tribocatalytic degradation of dyes by tungsten bronze ferroelectric $\text{Ba}_{2.5}\text{Sr}_{2.5}\text{Nb}_8\text{Ta}_2\text{O}_{30}$ submicron particles. <i>RSC Advances</i> , 2021, 11, 13386-13395.	3.6	25
11	Effect of strontium substitution on the structure and dielectric properties of unfilled tungsten bronze $\text{Ba}_{4-x}\text{Sr}_x\text{SmFe}_{0.5}\text{Nb}_{9.5}\text{O}_{30}$ ceramics. <i>Ceramics International</i> , 2020, 46, 9240-9248.	4.8	18
12	High-Temperature Dielectric and Relaxation Behavior of Tantalum-Doped Sodium Bismuth Titanate-Barium Titanate Ceramics. <i>Journal of Electronic Materials</i> , 2020, 49, 6643-6655.	2.2	16
13	Simultaneously optimizing both energy storage density and efficiency in a novel lead-free relaxor antiferroelectrics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3562-3568.	5.7	56
14	Effect of Lu doping on the structure, electrical properties and energy storage performance of AgNbO_3 antiferroelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7731-7741.	2.2	18
15	Realizing high low-electric-field energy storage performance in AgNbO_3 ceramics by introducing relaxor behaviour. <i>Journal of Materiomics</i> , 2019, 5, 597-605.	5.7	80
16	Effect of rare earth on dielectric properties of Mn contained unfilled tungsten bronze ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17393-17404.	2.2	4
17	Ultrahigh energy-storage density in A/B-site co-doped AgNbO_3 lead-free antiferroelectric ceramics: insight into the origin of antiferroelectricity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26293-26301.	10.3	136
18	Aliovalent A-site engineered AgNbO_3 lead-free antiferroelectric ceramics toward superior energy storage density. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14118-14128.	10.3	242

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19	Preparation and dielectric properties of $Ba_{4-x}Sm_2Fe_{2-x}Nb_{8+x}O_{30}$ tungsten bronze ceramics with an adjustable structure that changes from filled to unfilled. <i>Materials Research Bulletin</i> , 2019, 114, 18-27.	5.2	2
20	Preparation and dielectric properties of $Ba_4RFe_{0.5}Nb_{9.5}O_{30}$ ($R = La, Nd, Eu, Gd$) unfilled tungsten bronze ceramics. <i>Journal of Alloys and Compounds</i> , 2019, 773, 470-481.	5.5	15
21	Lead-free $Ag_{1-x}La_xNb_3$ antiferroelectric ceramics with high energy storage density and efficiency. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4640-4647.	3.8	108
22	Structure and energy storage performance of Ba-modified $AgNbO_3$ lead-free antiferroelectric ceramics. <i>Ceramics International</i> , 2019, 45, 5559-5565.	4.8	90
23	Effect of annealing atmosphere on the structure and dielectric properties of unfilled tungsten bronze ceramics $Ba_4PrFe_{0.5}Nb_{9.5}O_{30}$. <i>Ceramics International</i> , 2018, 44, 7700-7708.	4.8	12
24	High-temperature dielectric relaxation mechanism in $Ba_4SmFe_{0.5}Nb_{9.5}O_{30}$ tungsten bronze ceramics. <i>Ceramics International</i> , 2018, 44, S224-S227.	4.8	2
25	Temperature-stable unfilled tungsten bronze dielectric ceramics: $Ba_{3.5}Sm_{1.5}Fe_{0.75}Nb_{9.25}O_{30}$. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 269-273.	2.1	6
26	Dielectric properties of unfilled tetragonal tungsten bronze $Ba_4PrFe_{0.5}Nb_{9.5}O_{30}$ ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 904-909.	1.0	6
27	Relaxor behavior and ferroelectric properties of a new $Ba_4SmFe_{0.5}Nb_{9.5}O_{30}$ tungsten bronze ceramic. <i>Ceramics International</i> , 2016, 42, 14999-15004.	4.8	11
28	Dielectric and ferroelectric properties of unfilled tungsten bronze $KBa_3RbNb_{10}O_{30}$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 515-520.	2.2	8
29	Structure and Electrical Properties of LiF Doped $0.996(0.95K_{0.5}Na_{0.5}Nb_3-0.05LiSb_3)-0.004BiFeO_3$ Piezoelectric Ceramics. <i>Ferroelectrics</i> , 2014, 467, 99-109.		
30	Factors influencing high voltage performance of coconut char derived carbon based electrical double layer capacitor made using acetonitrile and propylene carbonate based electrolytes. <i>Journal of Power Sources</i> , 2014, 272, 90-99.	7.8	18
31	Facile synthesis and enhanced visible-light photocatalytic activity of Ag_2S nanocrystal-sensitized $Ag_8W_4O_{16}$ nanorods. <i>Journal of Colloid and Interface Science</i> , 2014, 422, 30-37.	9.4	35
32	Influences of oxide chemical modified on microstructure and electrical properties of $PbTiO_3-Bi(Ni_{1/2}Ti_{1/2})O_3$. <i>Inorganic Chemistry Communication</i> , 2013, 27, 9-12.	3.9	5
33	Polaron relaxation and non-ohmic behavior in $CaCu_3Ti_4O_{12}$ ceramics with different cooling methods. <i>Materials Chemistry and Physics</i> , 2013, 139, 844-850.	4.0	74
34	Multiferroic properties and enhanced magnetoelectric coupling in $(1-x)PbTiO_3-xNdFeO_3$. <i>Solid State Sciences</i> , 2013, 15, 91-94.	3.2	18
35	Preparation and dielectric properties of unfilled tungsten bronze ferroelectrics $Ba_4RETiNb_9O_{30}$. <i>Journal of Alloys and Compounds</i> , 2013, 581, 547-552.	5.5	23
36	$Na_0.5K_0.5NbO_3$ and $0.9Na_0.5K_0.5NbO_3-0.1Bi_0.5Na_0.5TiO_3$ nanocrystalline powders synthesized by low-temperature solid-state reaction. <i>Advanced Powder Technology</i> , 2013, 24, 908-912.	4.1	17

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37	Giant dielectric permittivity and non-linear electrical behavior in $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ varistors from the molten-salt synthesized powder. <i>Ceramics International</i> , 2013, 39, 6063-6068.	4.8	57
38	Structure and enhanced piezoelectric response by chemical doping in $\text{PbTiO}_3\text{-PbZrO}_3\text{-Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3$. <i>Inorganic Chemistry Communication</i> , 2013, 31, 66-68.	3.9	9
39	Quantitative Description of the Diffuse Phase Transition of BNT-NKN Ceramics. <i>Ferroelectrics</i> , 2012, 432, 65-72.	0.6	16
40	Structure and piezoelectric properties of $(1-x)\text{BaTiO}_3\text{-}x(0.4\text{BaZrO}_3\text{-}0.6\text{CaTiO}_3)$ ceramics. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 295403.	2.8	21
41	Self-assembly growth of flower-like BiFeO_3 powders at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1500-1503.	2.2	12
42	Preparation and Electrical Properties of High-TC Piezoelectric Ceramics of Strontium-Substituted $\text{Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-PbTiO}_3$. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1170-1173.	3.8	18
43	Highly efficient and stable $\text{Ag}/\text{Ag}_3\text{PO}_4$ plasmonic photocatalyst in visible light. <i>Catalysis Communications</i> , 2012, 17, 200-204.	3.3	174
44	One-pot pyridine-assisted synthesis of visible-light-driven photocatalyst $\text{Ag}/\text{Ag}_3\text{PO}_4$. <i>Applied Catalysis B: Environmental</i> , 2012, 115-116, 245-252.	20.2	218
45	Giant dielectric response and charge compensation of Li- and Co-doped NiO ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 673-677.	3.5	73
46	Oxygen-vacancy-related high-temperature dielectric relaxation and electrical conduction in $0.95\text{K}0.5\text{Na}0.5\text{NbO}_3\text{-}0.05\text{BaZrO}_3$ ceramic. <i>Physica B: Condensed Matter</i> , 2012, 407, 136-139.	2.7	72
47	Dielectric and non-Ohmic properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics modified with NiO , SnO_2 , SiO_2 , and Al_2O_3 additives. <i>Journal of Materials Science</i> , 2012, 47, 2294-2299.	3.7	53
48	Frequency and temperature dependent dielectric and conductivity behavior of $0.95(\text{K}0.5\text{Na}0.5)\text{NbO}_3\text{-}0.05\text{BaTiO}_3$ ceramic. <i>Materials Chemistry and Physics</i> , 2011, 126, 769-772.	4.0	81
49	Temperature-stable and low loss Fe-containing dielectrics in $\text{BaO-Ln}_2\text{O}_3\text{-Fe}_2\text{O}_3\text{-Ta}_2\text{O}_5$ system. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1208-1212.	2.2	2
50	Space-charge relaxation and electrical conduction in $\text{K}0.5\text{Na}0.5\text{NbO}_3$ at high temperatures. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 1047-1051.	2.3	119
51	Preparation, structure and dielectric properties of tungsten bronze ferroelectrics in $\text{SrO-Eu}_2\text{O}_3\text{-TiO}_2\text{-Nb}_2\text{O}_5$ system. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 311-314.	1.0	1
52	Dielectric and nonlinear current-voltage characteristics of rare earth doped $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	84
53	Two novel $\text{A}_4\text{B}_3\text{O}_{12}$ -type microwave ceramics with high-Q and near-zero $\tan\delta$. <i>Journal of Materials Research</i> , 2010, 25, 1239-1242.	2.6	7
54	Preparation, characterization and dielectric properties of $\text{Sr}_5\text{RTi}_3\text{Ta}_7\text{O}_{30}$ (R=Pr and Eu) ferroelectric ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 291-294.	1.0	0

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55	A new microwave dielectric ceramic for LTCC applications. Journal of Materials Science: Materials in Electronics, 2010, 21, 849-853.	2.2	7
56	Microwave dielectric properties of Ba ₅ Nb ₄ O ₁₅ ceramic by molten salt method. Journal of Materials Science: Materials in Electronics, 2010, 21, 939-942.	2.2	8
57	Dielectric and ferroelectric properties of tungsten bronze ferroelectrics in SrO-Pr ₂ O ₃ -TiO ₂ -Nb ₂ O ₅ system. Materials Chemistry and Physics, 2010, 121, 114-117.	4.0	9
58	Ba ₄ Ln ₂ Fe ₂ Ta ₈ O ₃₀ (Ln=Pr, Eu): Temperature-Stable Low Loss Dielectrics with a Tungsten Bronze Structure. Journal of the American Ceramic Society, 2010, 93, 945-947.	3.8	12
59	Ba ₄ LiNb ₃ Ta _x O ₁₂ (x=0-3): A Series of High-Q Microwave Dielectrics from the Twinned 8H Hexagonal Perovskites. Journal of the American Ceramic Society, 2010, 93, 1229-1231.	3.8	34
60	Preparation and Characterization of a New Microwave Dielectric Ceramic Ba ₄ ZnTi ₁₁ O ₂₇ . Journal of the American Ceramic Society, 2010, 93, 1537-1539.	3.8	22
61	Sr ₄ La _m Ti _m Ta ₄ O ₁₂ (m=1, 2, 3): A Novel Series of A ₄ B ₃ O ₁₂ -Type Microwave Ceramics with a High Q and Low $\tan \delta$. Journal of the American Ceramic Society, 2010, 93, 1884-1887.	3.8	8
62	Dielectric Properties of Ba ₄ Sm ₂ Fe ₂ M ₈ O ₃₀ (M=Nb, Ta) with Tetragonal Bronze Structure. Journal of the American Ceramic Society, 2010, 93, 2430-2433.	3.8	11
63	Ba ₄ Ln ₂ Fe ₂ Nb ₈ O ₃₀ (Ln = Eu, Gd) Ferroelectric Ceramics. Ferroelectrics, 2010, 404, 33-38.	0.6	6
64	Characterization and dielectric properties of Sr ₄ M ₂ Ti ₄ Ta ₆ O ₃₀ (M=Pr and Eu) ceramics. Journal of Alloys and Compounds, 2010, 500, L9-L11.	5.5	6
65	Dielectric properties of (NaBi(1-x)Kx)0.5Ti(1-x)NbxO ₃ ceramics fabricated by mechanical alloying. Journal of Alloys and Compounds, 2010, 507, 196-200.	5.5	26
66	Effects of Sr substitution on microwave dielectric properties of Ba ₃ LaNb ₃ O ₁₂ ceramics. Journal of Alloys and Compounds, 2009, 487, 504-506.	5.5	13
67	A New Low Loss and Temperature Stable Microwave Dielectric Ceramic Sr ₄ La ₂ Ti ₃ Nb ₂ O ₁₈ . Ferroelectrics, 2009, 387, 118-122.	0.6	0
68	Ba ₃ La ₂ Ti ₂ Ta ₂ O ₁₅ : A new microwave dielectric of A ₅ B ₄ O ₁₅ -type cation-deficient perovskites. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 422-424.	1.0	0
69	Preparation and microwave dielectric properties of a new A ₅ B ₄ O ₁₅ -type cation-deficient perovskites: Ba ₄ LaTiTaO ₁₅ . Materials Letters, 2008, 62, 670-672.	2.6	8
70	High permittivity and low loss dielectric ceramics Ba ₅ LnNiNb ₉ O ₃₀ (Ln=La, Nd and Sm). Journal of Alloys and Compounds, 2007, 429, 280-284.	5.5	16
71	Microwave Dielectric Properties of a New A ₅ B ₄ O ₁₅ -Type Cation-Deficient Perovskite Ba ₂ La ₃ Ti ₃ TaO ₁₅ . Journal of the American Ceramic Society, 2007, 90, 1626-1628.	3.8	18
72	Microwave dielectric properties of Ba ₃ La ₂ Ti ₂ Nb ₂ TaxO ₁₅ ceramics. Materials Letters, 2007, 61, 3093-3095.	2.6	8

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73	High dielectric constant and low-loss dielectric ceramics of Ba ₅ LnZnNb ₉ O ₃₀ (Ln=La, Nd and Sm). Materials Letters, 2007, 61, 4140-4143.	2.6	20
74	Characterization and properties of new dielectric ceramics Ba ₅ LnZnNb ₉ O ₃₀ (Ln=La, Nd and Sm). Transactions of Nonferrous Metals Society of China, 2006, 16, s534-s537.	4.2	1
75	Structural and dielectric properties of Ba ₅ R NiNb ₉ O ₃₀ (R=La, Nd and Sm) ceramics. Journal Wuhan University of Technology, Materials Science Edition, 2006, 21, 109-112.	1.0	0
76	TiO ₂ Added Zn-Bi Based Varistors: Microstructure, I-V, Flow and Aging Characteristics. Key Engineering Materials, 0, 633, 303-307.	0.4	0