Changzheng Hu

List of Publications by Year
in descending order

76	2,455	279798 23	206112 48
papers	citations	h-index	g-index

81	81	81	1834
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aliovalent A-site engineered AgNbO₃ lead-free antiferroelectric ceramics toward superior energy storage density. Journal of Materials Chemistry A, 2019, 7, 14118-14128.	10.3	242
2	One-pot pyridine-assisted synthesis of visible-light-driven photocatalyst Ag/Ag3PO4. Applied Catalysis B: Environmental, 2012, 115-116, 245-252.	20.2	218
3	Highly efficient and stable Ag/Ag3PO4 plasmonic photocatalyst in visible light. Catalysis Communications, 2012, 17, 200-204.	3.3	174
4	Ultrahigh energy-storage density in A-/B-site co-doped AgNbO₃ lead-free antiferroelectric ceramics: insight into the origin of antiferroelectricity. Journal of Materials Chemistry A, 2019, 7, 26293-26301.	10.3	136
5	Space-charge relaxation and electrical conduction inÂK0.5Na0.5NbO3 at high temperatures. Applied Physics A: Materials Science and Processing, 2011, 104, 1047-1051.	2.3	119
6	Leadâ€free Ag_{1â^'3x}La_xNbO₃ antiferroelectric ceramics with highâ€energy storage density and efficiency. Journal of the American Ceramic Society, 2019, 102, 4640-4647.	3.8	108
7	Structure and energy storage performance of Ba-modified AgNbO3 lead-free antiferroelectric ceramics. Ceramics International, 2019, 45, 5559-5565.	4.8	90
8	Dielectric and nonlinear currentâ€“voltage characteristics of rareâ€“earth doped CaCu3Ti4O12 ceramics. Journal of Applied Physics, 2011, 110, .	2.5	84
9	Frequency and temperature dependent dielectric and conductivity behavior of 0.95(K0.5Na0.5)NbO3â€“0.05BaTiO3 ceramic. Materials Chemistry and Physics, 2011, 126, 769-772.	4.0	81
10	Realizing high low-electric-field energy storage performance in AgNbO3 ceramics by introducing relaxor behaviour. Journal of Materiomics, 2019, 5, 597-605.	5.7	80
11	Polaron relaxation and non-ohmic behavior in CaCu3Ti4O12 ceramics with different cooling methods. Materials Chemistry and Physics, 2013, 139, 844-850.	4.0	74
12	Giant dielectric response and charge compensation of Li- and Co-doped NiO ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 673-677.	3.5	73
13	Oxygen-vacancy-related high-temperature dielectric relaxation and electrical conduction in 0.95K0.5Na0.5NbO3â€“0.05BaZrO3 ceramic. Physica B: Condensed Matter, 2012, 407, 136-139.	2.7	72
14	Giant dielectric permittivity and non-linear electrical behavior in CaCu 3 Ti 4 O 12 varistors from the molten-salt synthesized powder. Ceramics International, 2013, 39, 6063-6068.	4.8	57
15	Simultaneously optimizing both energy storage density and efficiency in a novel lead-free relaxor antiferroelectrics. Journal of the European Ceramic Society, 2020, 40, 3562-3568.	5.7	56
16	Dielectric and non-Ohmic properties of CaCu3Ti4O12 ceramics modified with NiO, SnO2, SiO2, and Al2O3 additives. Journal of Materials Science, 2012, 47, 2294-2299.	3.7	53
17	Facile synthesis and enhanced visible-light photocatalytic activity of Ag2S nanocrystal-sensitized Ag8W4O16 nanorods. Journal of Colloid and Interface Science, 2014, 422, 30-37.	9.4	35
18	Ba₄LiNb_{3â^'x}Ta_xO₁₂ (x=0â€“3): A Series of Highâ€Q Microwave Dielectrics from the Twinned 8H Hexagonal Perovskites. Journal of the American Ceramic Society, 2010, 93, 1229-1231.	3.8	34

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19	Phase engineering in NaNbO3 antiferroelectrics for high energy storage density. Journal of Materiomics, 2022, 8, 753-762.	5.7	34
20	Strong tribocatalytic dye degradation by tungsten bronze Ba4Nd2Fe2Nb8O30. Ceramics International, 2021, 47, 5038-5043.	4.8	31
21	Dielectric properties of (NaBi(1â^'x)Kx)0.5Ti(1â^'x)NbxO3 ceramics fabricated by mechanical alloying. Journal of Alloys and Compounds, 2010, 507, 196-200.	5.5	26
22	Tribocatalytic degradation of dyes by tungsten bronze ferroelectric Ba_{2.5}Sr_{2.5}Nb₈Ta₂O₃₀ submicron particles. RSC Advances, 2021, 11, 13386-13395.	3.6	25
23	Preparation and dielectric properties of unfilled tungsten bronze ferroelectrics Ba4RETiNb9O30. Journal of Alloys and Compounds, 2013, 581, 547-552.	5.5	23
24	Structure and energy storage performance of lanthanide elements doped AgNbO3 lead-free antiferroelectric ceramics. Journal of the European Ceramic Society, 2022, 42, 2204-2211.	5.7	23
25	Preparation and Characterization of a New Microwave Dielectric Ceramic Ba₄ZnTi₁₁O₂₇. Journal of the American Ceramic Society, 2010, 93, 1537-1539.	3.8	22
26	Structure and piezoelectric properties of (1Ââ^'Â0.5x)BaTiO₃â€“0.5x (0.4BaZrO₃â€“0.6CaTiO₃) ceramics. Journal Physics D: Applied Physics, 2012, 45, 295403.	2.8	21
27	Ferroelectricity and Schottky Heterojunction Engineering in AgNbO₃: A Simultaneous Way of Boosting Piezo-photocatalytic Activity. ACS Applied Materials & Interfaces, 2022, 14, 22313-22323.	8.0	21
28	High dielectric constant and low-loss dielectric ceramics of Ba5LnZnNb9O30 (Ln=La, Nd and Sm). Materials Letters, 2007, 61, 4140-4143.	2.6	20
29	Microwave Dielectric Properties of a New A5B4O15-Type Cation-Deficient Perovskite Ba2La3Ti3TaO15. Journal of the American Ceramic Society, 2007, 90, 1626-1628.	3.8	18
30	Preparation and Electrical Properties of High-TC Piezoelectric Ceramics of Strontium-Substituted Bi(Ni1/2Ti1/2)O3-PbTiO3. Journal of the American Ceramic Society, 2012, 95, 1170-1173.	3.8	18
31	Multiferroic properties and enhanced magnetoelectric coupling in (1Ââ^'Âx)PbTiO3Ââ^'ÂxNdFeO3. Solid State Sciences, 2013, 15, 91-94.	3.2	18
32	Factors influencing high voltage performance of coconut char derived carbon based electrical double layer capacitor made using acetonitrile and propylene carbonate based electrolytes. Journal of Power Sources, 2014, 272, 90-99.	7.8	18
33	Effect of strontium substitution on the structure and dielectric properties of unfilled tungsten bronze Ba4-xSrxSmFe0.5Nb9.5O30 ceramics. Ceramics International, 2020, 46, 9240-9248.	4.8	18
34	Effect of Lu doping on the structure, electrical properties and energy storage performance of AgNbO3 antiferroelectric ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 7731-7741.	2.2	18
35	Na0.5K0.5NbO3 and 0.9Na0.5K0.5NbO3â€“0.1Bi0.5Na0.5TiO3 nanocrystalline powders synthesized by low-temperature solid-state reaction. Advanced Powder Technology, 2013, 24, 908-912.	4.1	17
36	High permittivity and low loss dielectric ceramics Ba5LnNiNb9O30 (Ln=La, Nd and Sm). Journal of Alloys and Compounds, 2007, 429, 280-284.	5.5	16

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37	Quantitative Description of the Diffuse Phase Transition of BNT-NKN Ceramics. Ferroelectrics, 2012, 432, 65-72.	0.6	16
38	High-Temperature Dielectric and Relaxation Behavior of Tantalum-Doped Sodium Bismuth Titanate-Barium Titanate Ceramics. Journal of Electronic Materials, 2020, 49, 6643-6655.	2.2	16
39	Preparation and dielectric properties of Ba4RFe0.5Nb9.5O30 (RÂ= La, Nd, Eu, Gd) unfilled tungsten bronze ceramics. Journal of Alloys and Compounds, 2019, 773, 470-481.	5.5	15
40	Effects of Sr substitution on microwave dielectric properties of Ba3LaNb3O12 ceramics. Journal of Alloys and Compounds, 2009, 487, 504-506.	5.5	13
41	Silver stoichiometry engineering: an alternative way to improve energy storage density of AgNbO3-based antiferroelectric ceramics. Journal of Materials Research, 2021, 36, 1067-1075.	2.6	13
42	Ba₄Ln₂Fe₂Ta₈O₃₀ (Ln=Pr, Eu): Temperatureâ€Stable Low Loss Dielectrics with a Tungsten Bronze Structure. Journal of the American Ceramic Society, 2010, 93, 945-947.	3.8	12
43	Self-assembly growth of flower-like BiFeO3 powders at low temperature. Journal of Materials Science: Materials in Electronics, 2012, 23, 1500-1503.	2.2	12
44	Effect of annealing atmosphere on the structure and dielectric properties of unfilled tungsten bronze ceramics Ba4PrFe0.5Nb9.5O30. Ceramics International, 2018, 44, 7700-7708.	4.8	12
45	Dielectric Properties of Ba₄Sm₂Fe₂M₈O₃₀ (M=Nb, Ta) with Tetragonal Bronze Structure. Journal of the American Ceramic Society, 2010, 93, 2430-2433.	3.8	11
46	Relaxor behavior and ferroelectric properties of a new Ba 4 SmFe 0.5 Nb 9.5 O 30 tungsten bronze ceramic. Ceramics International, 2016, 42, 14999-15004.	4.8	11
47	Dielectric and ferroelectric properties of tungsten bronze ferroelectrics in SrOâ€“Pr2O3â€“TiO2â€“Nb2O5 system. Materials Chemistry and Physics, 2010, 121, 114-117.	4.0	9
48	Structure and enhanced piezoelectric response by chemical doping in PbTiO3â€“PbZrO3â€“Bi(Ni1/2Ti1/2)O3. Inorganic Chemistry Communication, 2013, 31, 66-68.	3.9	9
49	Microwave dielectric properties of Ba3La2Ti2Nb2â^'xTaxO15 ceramics. Materials Letters, 2007, 61, 3093-3095.	2.6	8
50	Preparation and microwave dielectric properties of a new A5B4O15-type cation-deficient perovskites: Ba4LaTiTaO15. Materials Letters, 2008, 62, 670-672.	2.6	8
51	Microwave dielectric properties of Ba5Nb4O15 ceramic by molten salt method. Journal of Materials Science: Materials in Electronics, 2010, 21, 939-942.	2.2	8
52	Sr_{4â^'m}La_mTi_{mâ^'1}Ta_{4â^'m}O₁₂ (m=1, 2, 3): A Novel Series of A₄B₃O₁₂â€Type Microwave Ceramics with a High Q and Low Ï„_f. Journal of the American Ceramic Society, 2010, 93, 1884-1887.	3.8	8
53	Dielectric and ferroelectric properties of unfilled tungsten bronze KBa3RNb10O30 ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 515-520.	2.2	8
54	Enhancement of dielectric response by the interaction of point defect and grain boundary in copper tantalate oxides. Ceramics International, 2021, 47, 16178-16185.	4.8	8

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55	Dynamic Behavior of Polar Nanoregions in Reâ€Entrant Relaxor 0.6Bi(Mg_{1/2}Ti_{1/2})O₃â€“0.4PbTiO₃. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	8
56	Two novel A4B3O12-type microwave ceramics with high-Q and near-zero Ï„f. Journal of Materials Research, 2010, 25, 1239-1242.	2.6	7
57	A new microwave dielectric ceramic for LTCC applications. Journal of Materials Science: Materials in Electronics, 2010, 21, 849-853.	2.2	7
58	Ba₄Ln₂Fe₂Nb₈O₃₀(Ln = Eu, Gd) Ferroelectric Ceramics. Ferroelectrics, 2010, 404, 33-38.	0.6	6
59	Characterization and dielectric properties of Sr4M2Ti4Ta6O30 (M=Pr and Eu) ceramics. Journal of Alloys and Compounds, 2010, 500, L9-L11.	5.5	6
60	Structure and Electrical Properties of LiF Doped 0.996(0.95K_{0.5}Na_{0.5}NbO₃-0.05LiSbO₃)-0.004BiFeO₃ Piezoelectric Ceramics. Ferroelectrics, 2014, 467, 99-109.	0.6	6
61	Temperatureâ€stable unfilled tungsten bronze dielectric ceramics: Ba_{3.5}Sm_{1.5}Fe_{0.75}Nb_{9.25}O₃₀. International Journal of Applied Ceramic Technology, 2017, 14, 269-273.	2.1	6
62	Dielectric properties of unfilled tetragonal tungsten bronze Ba4PrFe0.5Nb9.5O30 ceramics. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 904-909.	1.0	6
63	Influences of oxide chemical modified on microstructure and electrical properties of PbTiO3-Bi(Ni1/2Ti1/2)O3. Inorganic Chemistry Communication, 2013, 27, 9-12.	3.9	5
64	Preparation and dielectric properties of co-contained unfilled tungsten bronze ceramics Ba4RCo0.5Nb9.5O30. Journal of Materials Science: Materials in Electronics, 2021, 32, 24939-24952.	2.2	5
65	Effect of rare earth on dielectric properties of Mn contained unfilled tungsten bronze ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 17393-17404.	2.2	4
66	Structure and relaxor ferroelectric behavior of the novel tungsten bronze type ceramic Sr5BiTi3Nb7O30. Journal of Applied Physics, 2022, 131, .	2.5	4
67	Temperature-stable and low loss Fe-containing dielectrics in BaO-Ln2O3-Fe2O3-Ta2O5 system. Journal of Materials Science: Materials in Electronics, 2011, 22, 1208-1212.	2.2	2
68	High-temperature dielectric relaxation mechanism in Ba4SmFe0.5Nb9.5O30 tungsten bronze ceramics. Ceramics International, 2018, 44, S224-S227.	4.8	2
69	Preparation and dielectric properties of Ba4â^'xSm2Fe2â^'xNb8+xO30 tungsten bronze ceramics with an adjustable structure that changes from filled to unfilled. Materials Research Bulletin, 2019, 114, 18-27.	5.2	2
70	Characterization and properties of new dielectric ceramics Ba5LnZnNb9O30(Ln=La, Nd and Sm). Transactions of Nonferrous Metals Society of China, 2006, 16, s534-s537.	4.2	1
71	Preparation, structure and dielectric properties of tungsten bronze ferroelectrics in SrO-Eu2O3-TiO2-Nb2O5 system. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 311-314.	1.0	1
72	Structural and dielectric properties of Ba5 R NiNb9O30 (R=La, Nd and Sm) ceramics. Journal Wuhan University of Technology, Materials Science Edition, 2006, 21, 109-112.	1.0	0

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73	Ba3La2Ti2Ta2O15: A new microwave dielectric of A5B4O15-type cation-deficient perovskites. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 422-424.	1.0	0
74	A New Low Loss and Temperature Stable Microwave Dielectric Ceramic Sr₄La₂Ti₃Nb₂O₁₈. Ferroelectrics, 2009, 387, 118-122.	0.6	0
75	Preparation, characterization and dielectric properties of Sr5RTi3Ta7O30 (R=Pr and Eu) ferroelectric ceramics. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 291-294.	1.0	0
76	TiO₂ Added Zn-Bi Based Varistors: Microstructure, I-V, Flow and Aging Characteristics. Key Engineering Materials, 0, 633, 303-307.	0.4	0