Xiuli Chen

List of Publications by Year
in descending order

97 papers	2,523 citations	172457 29 h-index	223800 46 g-index
97 all docs	97 docs citations	97 times ranked	858 citing authors

#	Article	IF	Citations
1	Realizing ultrahigh recoverable energy density and superior chargeâ€“discharge performance in NaNbO₃-based lead-free ceramics <i>via</i> a local random field strategy. Journal of Materials Chemistry C, 2020, 8, 3784-3794.	5.5	150
2	ZnLi2/3Ti4/3O4: A new low loss spinel microwave dielectric ceramic. Journal of the European Ceramic Society, 2012, 32, 261-265.	5.7	102
3	Excellent energy storage properties and stability of NaNbO₃â€“Bi(Mg_{0.5}Ta_{0.5})O₃ ceramics by introducing (Bi_{0.5}Na_{0.5})_{0.7}Sr_{0.3}TiO₃. Journal of Materials Chemistry A, 2021, 9, 4789-4799.	10.3	92
4	Simultaneously achieving ultrahigh energy storage density and energy efficiency in barium titanate based ceramics. Ceramics International, 2020, 46, 2764-2771.	4.8	90
5	Simultaneous enhancement of polarization and breakdown strength in lead-free BaTiO3-based ceramics. Chemical Engineering Journal, 2021, 409, 128231.	12.7	89
6	High energy storage density and power density achieved simultaneously in NaNbO3-based lead-free ceramics via antiferroelectricity enhancement. Journal of Materiomics, 2021, 7, 629-639.	5.7	88
7	Ultrahigh Energy Storage Characteristics of Sodium Niobate-Based Ceramics by Introducing a Local Random Field. ACS Sustainable Chemistry and Engineering, 2020, 8, 14985-14995.	6.7	85
8	Novel lead-free ceramic capacitors with high energy density and fast discharge performance. Ceramics International, 2020, 46, 3426-3432.	4.8	80
9	Simultaneously with large energy density and high efficiency achieved in NaNbO3-based relaxor ferroelectric ceramics. Journal of the European Ceramic Society, 2021, 41, 1891-1903.	5.7	78
10	Thermally Stable BaTiO₃â€Bi(Mg_{2/3}Nb_{1/3})O₃ Solid Solution with High Relative Permittivity in a Broad Temperature Usage Range. Journal of the American Ceramic Society, 2015, 98, 804-810.	3.8	70
11	Phase structure, sintering behavior and adjustable microwave dielectric properties of Mg1âˆ'Li2Ti O1+2 solid solution ceramics. Journal of Alloys and Compounds, 2017, 696, 1255-1259.	5.5	66
12	Temperature stability, structural evolution and dielectric properties of BaTiO3â€“Bi(Mg2/3Ta1/3)O3 perovskite ceramics. Ceramics International, 2015, 41, 7157-7161.	4.8	62
13	Realizing enhanced energy storage and hardness performances in 0.90NaNbO3âˆ'0.10Bi(Zn0.5Sn0.5)O3 ceramics. Journal of Advanced Ceramics, 2022, 11, 729-741.	17.4	57
14	Microwave dielectric properties and its compatibility with silver electrode of Li2MgTi3O8 ceramics. Journal of Alloys and Compounds, 2011, 509, 5829-5832.	5.5	56
15	Superior thermal and frequency stability and decent fatigue endurance of high energy storage properties in NaNbO3-based lead-free ceramics. Ceramics International, 2020, 46, 25731-25737.	4.8	52
16	High energy storage and ultrafast discharge in NaNbO3-based lead-free dielectric capacitors via a relaxor strategy. Ceramics International, 2021, 47, 3079-3088.	4.8	50
17	Evolution of phase transformation behavior and dielectric temperature stability of BaTiO3â€“Bi(Zn0.5Zr0.5)O3 ceramics system. Journal of Alloys and Compounds, 2013, 551, 365-369.	5.5	46
18	High relative permittivity, low dielectric loss and good thermal stability of BaTiO3-bi(Mg0.5Zr0.5)O3 solid solution. Ceramics International, 2015, 41, 2081-2088.	4.8	46

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19	Achieving ultrahigh energy storage density in NaNbO3â€"Bi(Ni0.5Zr0.5)O3 solid solution by enhancing the breakdown electric field. Ceramics International, 2020, 46, 28407-28413.	4.8	46
20	Phase evolution, microstructure, electric properties of (Ba1-xBi0.67xNa0.33x)(Ti1-xBi0.33xSn0.67x)O3 ceramics. Journal of Advanced Ceramics, 2019, 8, 427-437.	17.4	44
21	A lithium aluminium borate composite microwave dielectric ceramic with low permittivity, near-zero shrinkage, and low sintering temperature. Journal of the European Ceramic Society, 2019, 39, 1122-1126.	5.7	43
22	A new low-loss microwave dielectric ceramic for low temperature cofired ceramic applications. Journal of Materials Research, 2010, 25, 1235-1238.	2.6	42
23	Bismuth borate composite microwave ceramics synthesised by different ratios of H3BO3 for ULTCC technology. Journal of the European Ceramic Society, 2020, 40, 381-385.	5.7	41
24	Dielectric Properties and Impedance Analysis of <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃â€ Ceramics with Good Dielectric Temperature Stability. Journal of the American Ceramic Society, 2013, 96, 3489-3493.	3.8	38
25	Achieving ultrahigh energy storage density and energy efficiency simultaneously in barium titanate based ceramics. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	38
26	Bi(Mg_{0.5}Sn_{0.5})O₃-Doped NaNbO₃ Lead-free Ceramics Achieve Excellent Energy-Storage and Charge/Discharge Performances. ACS Sustainable Chemistry and Engineering, 2021, 9, 4863-4871.	6.7	35
27	(1-x)[0.90NN-0.10Bi(Mg2/3Nb1/3)O3]-x(Bi0.5Na0.5)0.7Sr0.3TiO3 ceramics with coreâ€"shell structures: A pathway for simultaneously achieving high polarization and breakdown strength. Nano Energy, 2022, 101, 107577.	16.0	33
28	Microwave dielectric properties of temperature stable Li2ZnxCo1â"xTi3O8 ceramics. Journal of Alloys and Compounds, 2011, 509, 8840-8844.	5.5	31
29	Effective strategy to realise excellent energy storage performances in lead-free barium titanate-based relaxor ferroelectric. Ceramics International, 2021, 47, 6077-6083.	4.8	31
30	A novel thermally stable low-firing LiMg4V3O12 ceramic: Sintering characteristic, crystal structure and microwave dielectric properties. Ceramics International, 2014, 40, 6335-6338.	4.8	29
31	Adjusting the Energy-Storage Characteristics of 0.95NaNbO₃â€"0.05Bi(Mg_{0.5}Sn_{0.5})O₃ Ceramics by Doping Linear Perovskite Materials. ACS Applied Materials & Interfaces, 2022, 14, 25609-25619.	8.0	28
32	Excellent temperature stability on relative permittivity, and conductivity behavior of K0.5Na0.5NbO3 based lead free ceramics. Journal of Alloys and Compounds, 2018, 762, 697-705.	5.5	27
33	Preparation, phase structure and microwave dielectric properties of a new low cost MgLi2/3Ti4/3O4 compound. Materials Chemistry and Physics, 2012, 137, 22-25.	4.0	26
34	Relaxor Behavior and Dielectric Properties of Bi(Zn2/3Nb1/3)O3-Modified BaTiO3 Ceramics. Journal of Electronic Materials, 2015, 44, 4804-4810.	2.2	26
35	NaTaO3 microwave dielectric ceramic a with high relative permittivity and as an excellent compensator for the temperature coefficient of resonant frequency. Ceramics International, 2021, 47, 121-129.	4.8	25
36	Enhanced energy storage performances of Bi(Ni1/2Sb2/3)O3 added NaNbO3 relaxor ferroelectric ceramics. Ceramics International, 2022, 48, 13862-13868.	4.8	25

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37	Thermally Stable BaTiO3-Bi(Mg0.75W0.25)O3 Solid Solutions: Sintering Characteristics, Phase Evolution, Raman Spectra, and Dielectric Properties. Journal of Electronic Materials, 2014, 43, 1112-1118.	2.2	24
38	Processing of low-fired glass-free Li2MgTi3O8 microwave dielectric ceramics. Journal of Alloys and Compounds, 2016, 688, 8-13.	5.5	23
39	High relative permittivity, low dielectric loss and good thermal stability of novel (K0.5Na0.5)NbO3â€"Bi(Zn0.75W0.25)O3 solid solution. Materials Letters, 2015, 145, 247-249.	2.6	22
40	Sintering characteristics and microwave dielectric properties of ultralow-loss SrY2O4 ceramics. Ceramics International, 2022, 48, 21299-21304.	4.8	22
41	Energy storage properties in Bi(Mg1/2Sb2/3)O3-doped NaNbO3 lead-free ceramics. Ceramics International, 2022, 48, 7723-7729.	4.8	19
42	High thermal stability and low dielectric loss of BaTiO 3 -Bi(Li 1/3 Zr 2/3)O 3 solid solution. Ceramics International, 2017, 43, 926-929.	4.8	18
43	Enhanced energy storage performance in Na(1-3x)BixNb0.85Ta0.15O3 relaxor ferroelectric ceramics. Ceramics International, 2022, 48, 776-783.	4.8	18
44	Simultaneously achieved high energy-storage density and efficiency in BaTiO3â€"Bi(Ni2/3Ta1/3)O3 lead-free relaxor ferroelectrics. Journal of Materials Science: Materials in Electronics, 2020, 31, 22780-22788.	2.2	17
45	Preparation, structure and microwave dielectric properties of novel La2MgGeO6 ceramics with hexagonal structure and adjustment of its Ï„ value. Ceramics International, 2021, 47, 7783-7789.	4.8	17
46	Simultaneously achieved high energy density and excellent thermal stability of lead-free barium titanate-based relaxor ferroelectric under low electric field. Journal of Materials Science: Materials in Electronics, 2019, 30, 15912-15922.	2.2	16
47	Phase evolution, microstructure, thermal stability and conductivity behavior of (Ba1-Bi0.67K0.33)(Ti1-Bi0.33Sn0.67)O3 solid solutions ceramics. Journal of Alloys and Compounds, 2019, 777, 1066-1073.	5.5	16
48	Enhanced thermal and frequency stability and decent fatigue endurance in lead-free NaNbO3-based ceramics with high energy storage density and efficiency. Journal of Materiomics, 2022, 8, 489-497.	5.7	16
49	Enhanced sintering ability and microwave dielectric properties of LiZnNbO4 ceramics with pretreatment of raw materials. Journal of Alloys and Compounds, 2016, 665, 113-118.	5.5	14
50	Phase Structure, Raman Spectra, Microstructure, and Dielectric Properties of (K0.5) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (Na0.5	2.2	14
51	Structural evolution, low-firing characteristic and microwave dielectric properties of magnesium and sodium vanadate ceramic. Ceramics International, 2015, 41, 11125-11131.	4.8	13
52	Glass-free Li2ZnTi3O8 low temperature cofired ceramics by pretreating raw materials. Journal of Materials Science: Materials in Electronics, 2016, 27, 11850-11855.	2.2	13
53	Microwave dielectric properties of low-permittivity CaMgSiO4 ceramic. Journal of Materials Science: Materials in Electronics, 2017, 28, 15258-15262.	2.2	13
54	(Ba1â^'xBi x)(Ti1â^'xNi0.5xSn0.5x)O3 Solid Solution: Phase Evolution, Microstructure, Dielectric Properties, and Impedance Analysis. Journal of Electronic Materials, 2018, 47, 2576-2583.	2.2	13

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55	(K0.5Na0.5)NbO3â€“Bi(Mg0.5Ti0.5)O3 solid solution: phase evolution, microstructure and electrical properties. Journal of Materials Science: Materials in Electronics, 2013, 24, 4346-4350.	2.2	12
56	(K0.5Na0.5)NbO3â€“Bi(Zn0.5Zr0.5)O3 perovskite ceramics: High relative permittivity, low dielectric loss and good thermal stability. Ceramics International, 2015, 41, 13883-13886.	4.8	12
57	Enhanced energy storage properties of Bi(Ni2/3Nb1/6Ta1/6)O3â€“NaNbO3 solid solution lead-free ceramics. Ceramics International, 2022, 48, 26466-26475.	4.8	12
58	A Microwave Dielectric Ceramic with Ultra-low Dielectric Constant Prepared by Reaction Sintering Method. Journal of Electronic Materials, 0, , .	2.2	12
59	Series of thermally stable Li1+2x Mg4âˆ'x V3O12 ceramics: low temperature sintering characteristic, crystal structure and microwave dielectric properties. Journal of Materials Science: Materials in Electronics, 2014, 25, 1480-1484.	2.2	11
60	Good electrical performances and impedance analysis of (1Ââˆ'Âx)KNNâ€“xBMM lead-free ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 4538-4546.	2.2	11
61	Sintering Behavior and Microwave Dielectric Properties of Low-Permittivity SrMgSi2O6 Ceramic. Journal of Electronic Materials, 2020, 49, 5989-5993.	2.2	11
62	Low-temperature sintering and compatibility with silver electrode of Ba4MgTi11O27 microwave dielectric ceramic. Materials Research Bulletin, 2010, 45, 1509-1512.	5.2	10
63	Effects of Bi(Zn0.5Zr0.5)O3 addition on the structure and electric properties of BaTiO3 lead-free piezoelectric ceramics. Ceramics International, 2013, 39, 3747-3751.	4.8	10
64	Excellent thermal stability and low dielectric loss of (1â€‰âˆ'â€‰x)BaTiO3 â€“xBi(Li0.5Nb0.5)O3 solid solutions in a broad temperature range applied in X8R. Journal of Materials Science: Materials in Electronics, 2017, 28, 17278-17282.	2.2	10
65	Phase structure, Raman spectroscopic, microstructure and dielectric properties of (K0.5Na0.5)NbO3â€“Bi(Li0.5Nb0.5)O3 lead-free ceramics. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	10
66	Novel series of MLa2WO7(Mâ€‰=â€‰Sr, Ba) microwave dielectric ceramic systems with monoclinic structures. Journal of Materials Science: Materials in Electronics, 2020, 31, 10819-10824.	2.2	9
67	Thermally stable BaTiO3â€“Bi(Zn0.75W0.25)O3 solid solution with high relative permittivity and low dielectric loss. Journal of Materials Science: Materials in Electronics, 2015, 26, 1413-1418.	2.2	8
68	Crystal structure and optimized microwave dielectric properties of (1Ââˆ'Âx) LiZn0.5Ti1.5O4â€“xTiO2 ceramics for application in dielectric resonator. Journal of Materials Science: Materials in Electronics, 2013, 24, 2641-2645.	2.2	7
69	Temperature-Stable Dielectric Properties from âˆ'â€‰56Â°C to 248Â°C in (1â€‰âˆ'â€‰x)BaTiO3-xBi(Mg0.5Sn0.5)O3 System. Journal of Electronic Materials, 2019, 48, 296-303.	2.2	7
70	Enhancing the microwave dielectric performance of SrSm2Al2O7 ceramic by Sr2+ nonstoichiometry and sintering aid addition. Journal of the European Ceramic Society, 2020, 40, 5494-5497.	5.7	7
71	Phase transition and electric properties of (1Ââˆ'Âx)BaTiO3â€“xSr1.9Ca0.1NaNb5O15 perovskite solid solutions. Journal of Materials Science: Materials in Electronics, 2013, 24, 2873-2879.	2.2	6
72	Improvement on ferroelectric and piezoelectric properties of (K0.5Na0.5)NbO3 ceramic with Sr0.53Ba0.47Nb2O6 addition. Journal of Materials Science: Materials in Electronics, 2013, 24, 770-775.	2.2	6

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73	An approach to further improve piezoelectric and ferroelectric properties of (K0.5Na0.5)NbO3 ceramic. Journal of Materials Science: Materials in Electronics, 2014, 25, 2634-2637.	2.2	6
74	Thermally stable Ba0.8Ca0.2TiO3â€“Bi(Mg0.5Zr0.5)O3 solid solution with low dielectric loss in a broad temperature usage range. Journal of Materials Science: Materials in Electronics, 2016, 27, 6552-6557.	2.2	6
75	Good thermal stability and improved piezoelectric properties of (K0.5Na0.5)NbO3â€“Bi(Mg0.75W0.25)O3 solid solutions. Journal of Materials Science: Materials in Electronics, 2017, 28, 3931-3935.	2.2	6
76	Temperature-stable dielectric and piezoelectric properties of (K0.5Na0.5)NbO3-Bi(Cu0.75W0.25)O3 solid solutions. Materials Letters, 2017, 199, 128-130.	2.6	5
77	Good high-temperature stability and improved piezoelectric properties of (K0.5Na0.5)NbO3â€“Bi(Mg0.5Zr0.5)O3 ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 13126-13131.	2.2	5
78	Excellent thermal stability and low dielectric loss of (Ba1â€‰âˆ’â€‰xBi0.5xSr0.5x)(Ti1â€‰âˆ’â€‰xBi0.5xZr0.5x)O3 solid solution ceramics in a broad temperature range applied in X8R. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	5
79	Structure and dielectric properties of novel series of 3CaOâ€“RE2O3â€“2WO3 (REâ€‰=â€‰La, Nd and Sm) microwave ceramics and the adjustment of Ï„f value. Journal of Materials Science: Materials in Electronics, 2020, 31, 14953-14960.	2.2	5
80	Structure and dielectric properties of a novel defect pyrochlore Bi1.34Fe0.66Nb1.34O6.35 ceramic. Journal of Materials Science: Materials in Electronics, 2016, 27, 8619-8622.	2.2	4
81	Crystal structure, microstructure and microwave dielectric properties of novel MgAl2Ti3O10 ceramic. Journal of Materials Science: Materials in Electronics, 2018, 29, 6232-6235.	2.2	4
82	Thermal stability of (K0.45Na0.45Li0.04La0.02)NbO3â€“Sr(Ni1/3Nb2/3)O3 ceramics in a broad temperature range. Journal of Materials Science: Materials in Electronics, 2020, 31, 2122-2129.	2.2	4
83	Super wide thermal stability and giant dielectric response of (Ba1âˆ’Bi0.5Sr0.5)(Ti1âˆ’Bi0.5Sn0.5)O3 ceramics. Materials Letters, 2018, 223, 112-115.	2.6	3
84	(K0.5Na0.5)NbO3-Bi(Cu2/3Nb1/3)O3 Lead-free Ceramics: Phase Transition, Enhanced Dielectric and Piezoelectric Properties. Journal of Electronic Materials, 2018, 47, 794-799.	2.2	3
85	Adjustable microwave dielectric properties of ZnOâ€“TiO2â€“ZrO2â€“Nb2O5 composite ceramics via controlling the raw ZrO2 content and sintering temperature. Journal of Materials Science: Materials in Electronics, 2018, 29, 12055-12060.	2.2	3
86	Phase evolution, microstructure, thermal stability of (K0.45Na0.45Li0.04La0.02)NbO3â€“Bi(Ni0.5Zr0.5)O3 ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 16407-16414.	2.2	3
87	Novel 5MgOâ€“3Li2Oâ€“4WO3 ceramic: preparation, phase evolution and its microwave dielectric properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 6389-6394.	2.2	2
88	Good Thermal Stability, High Permittivity, Low Dielectric Loss and Chemical Compatibility with Silver Electrodes of Low-Fired BaTiO3â€“Bi(Cu0.75W0.25)O3 Ceramics. Journal of Electronic Materials, 2017, 46, 143-149.	2.2	2
89	Excellent thermal-stability and low dielectric loss of BaTiO3-Bi(Sr2/3Nb1/3)O3 solid solution ceramics in a broad temperature range applied in X8R. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 130-135.	3.5	2
90	Giant permittivity and good thermal stability of LiCuNb₃O₉-Bi(Mg0.5Zr0.5)O₃ solid solutions. Journal of Advanced Dielectrics, 2018, 08, 1850012.	2.4	2

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91	(Ba1â^'xBi0.33xSr0.67x)(Ti1â^'xBi0.67xV0.33x)O3 and (Ba1â^'xBi0.5xSr0.5x)(Ti1â^'xBi0.5xTi0.5x)O3 solid solutions: phase evolution, microstructure, dielectric properties and impedance analysis. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	2
92	Excellent temperature stability, high relative permittivity, and piezoelectric properties of K0.5Na0.5NbO3â€"Bi(Li1/3Ti2/3)O3 lead-free ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 11199-11207.	2.2	2
93	Phase Evolution, Microstructure, Conductivity Behavior and Microwave Dielectric Properties of Li2O-2MgO-Al2O3-6MoO3 Ceramics. Journal of Electronic Materials, 2019, 48, 5672-5676.	2.2	2
94	Good thermal stability and low dielectric loss of (K0.47Na0.47Li0.06)NbO3â€"(Bi0.5Na0.5)(Li0.25Ta0.75)O3 ceramics in a wide temperature range. Journal of Materials Science: Materials in Electronics, 2019, 30, 695-700.	2.2	1
95	Low-Temperature Synthesis and Characterization of Lead Zinc Niobate Thick Films. Journal of the American Ceramic Society, 2008, 91, 2559-2563.	3.8	0
96	Structure and dielectric properties of low-permittivity thermal-stable NiOâ€"MgOâ€"GeO2 system ceramics. Journal of Materials Science: Materials in Electronics, 0, , .	2.2	0
97	Novel high Îµr MNdTiNbO7 (Mâ€‰=â€‰Ca, Sr) microwave dielectric ceramics: preparation, phase composition, microstructure, and dielectric performance. Journal of Materials Science: Materials in Electronics, 2022, 33, 17295-17305.	2.2	0