Wangfeng Bai

List of Publications by Year
in descending order

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		201575	233338
47	2,137	27	45
papers	citations	h-index	g-index

47	47	47	1206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Promoting Charge Separation in g-C₃N₄/Graphene/MoS₂ Photocatalysts by Two-Dimensional Nanojunction for Enhanced Photocatalytic H₂ Production. ACS Applied Energy Materials, 2018, 1, 1400-1407.	2.5	171
2	Tailoring high energy density with superior stability under low electric field in novel (Bi0.5Na0.5)TiO3-based relaxor ferroelectric ceramics. Journal of the European Ceramic Society, 2020, 40, 4475-4486.	2.8	123
3	The Composition and Temperatureâ€Dependent Structure Evolution and Large Strain Response in (1â^'x)(<scp><scp>Bi</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5})<scp><scp>TiO</scp></scp>-st Ceramics. Journal of the American Ceramic Society, 2013, 96, 246-252.	1.7	121
4	Simultaneously achieving high energy storage density and efficiency under low electric field in BiFeO3-based lead-free relaxor ferroelectric ceramics. Journal of the European Ceramic Society, 2020, 40, 5450-5457.	2.8	103
5	Phase transitions, relaxor behavior, and large strain response in LiNbO3-modified Bi0.5(Na0.80K0.20)0.5TiO3 lead-free piezoceramics. Journal of Applied Physics, 2013, 114, .	1.1	99
6	Temperature-insensitive large strain response with a low hysteresis behavior in BNT-based ceramics. Ceramics International, 2016, 42, 7669-7680.	2.3	97
7	Structure evolution and large strain response in BNTâ€“BT lead-free piezoceramics modified with Bi(Ni0.5Ti0.5)O3. Journal of Alloys and Compounds, 2015, 649, 772-781.	2.8	90
8	Composition- and temperature-driven phase transition characteristics and associated electromechanical properties in Bi_{0.5}Na_{0.5}TiO₃-based lead-free ceramics. Dalton Transactions, 2016, 45, 8573-8586.	1.6	84
9	NaNbO 3 templates-induced phase evolution and enhancement of electromechanical properties in <00l> grain oriented lead-free BNT-based piezoelectric materials. Journal of the European Ceramic Society, 2017, 37, 2591-2604.	2.8	84
10	Achieving high-energy storage performance in 0.67Bi1Sm FeO3-0.33BaTiO3 lead-free relaxor ferroelectric ceramics. Ceramics International, 2020, 46, 11549-11555.	2.3	83
11	Effect of different templates on structure evolution and large strain response under a low electric field in <00l>-textured lead-free BNT-based piezoelectric ceramics. Journal of the European Ceramic Society, 2015, 35, 2489-2499.	2.8	79
12	Superior energy storage performance in (Bi_{0.5}Na_{0.5})TiO₃-based lead-free relaxor ferroelectrics for dielectric capacitor application via multiscale optimization design. Journal of Materials Chemistry A, 2022, 10, 9535-9546.	5.2	70
13	Phase Diagrams and Electromechanical Strains in Leadâ€Free BNTâ€Based Ternary Perovskite Compounds. Journal of the American Ceramic Society, 2014, 97, 3510-3518.	1.9	61
14	Tailoring frequency-insensitive large field-induced strain and energy storage properties in (Ba_{0.85}Ca_{0.15})(Zr_{0.1}Ti_{0.9})O₃-modified (Bi_{0.5}Na_{0.5})TiO₃ lead-free ceramics. Dalton Transactions, 2019, 48, 10160-10173.	1.6	59
15	Giant Fieldâ€Induced Strain with Low Hysteresis and Boosted Energy Storage Performance under Low Electric Field in (Bi_{0.5}Na_{0.5})TiO₃â€Based Grain Orientationâ€Controlled Ceramics. Advanced Electronic Materials, 2020, 6, 2000332.	2.6	59
16	Simultaneously achieving high energy-storage efficiency and density in Bi-modified SrTiO3-based relaxor ferroelectrics by ion selective engineering. Composites Part B: Engineering, 2022, 230, 109493.	5.9	52
17	Significantly tailored energy-storage performances in Bi_{0.5}Na_{0.5}TiO₃â€“SrTiO₃-based relaxor ferroelectric ceramics by introducing bismuth layer-structured relaxor BaBi₂Nb₂O₉ for capacitor application. Journal of Materials Chemistry C, 2021, 9, 5234-5243.	2.7	50
18	Synergy of a Stabilized Antiferroelectric Phase and Domain Engineering Boosting the Energy Storage Performance of NaNbO₃-Based Relaxor Antiferroelectric Ceramics. ACS Applied Materials & Interfaces, 2022, 14, 17662-17673.	4.0	48

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19	Phase evolution and correlation between tolerance factor and electromechanical properties in BNT-based ternary perovskite compounds with calculated end-member Bi(Me_{0.5}Ti_{0.5})O₃ (Me = Zn, Mg, Ni, Co). Dalton Transactions, 2016, 45, 14141-14153.	1.6	47
20	Simultaneously Realizing Superior Energy Storage Properties and Outstanding Chargeâ€“Discharge Performances in Tungsten Bronze-Based Ceramic for Capacitor Applications. Inorganic Chemistry, 2021, 60, 6559-6568.	1.9	46
21	Electromechanical properties and structure evolution in BiAlO3-modified Bi0.5Na0.5TiO3â€“BaTiO3 lead-free piezoceramics. Journal of Alloys and Compounds, 2016, 667, 6-17.	2.8	45
22	High capacitive performance at moderate operating field in (Bi0.5Na0.5)TiO3-based dielectric ceramics via synergistic effect of site engineering strategy. Chemical Engineering Journal, 2021, 426, 130811.	6.6	45
23	Realizing high-performance capacitive energy storage in lead-free relaxor ferroelectrics via synergistic effect design. Journal of the European Ceramic Society, 2022, 42, 129-139.	2.8	39
24	Lead-free BNT-based composite materials: enhanced depolarization temperature and electromechanical behavior. Dalton Transactions, 2017, 46, 15340-15353.	1.6	38
25	Structure and electromechanical properties in Bi0.5Na0.5TiO3-based lead-free piezoceramics with calculated end-member Bi(Ni0.5Ti0.5)O3. Journal of the European Ceramic Society, 2015, 35, 3457-3466.	2.8	35
26	Effect of CaZrO₃ on phase structure and electrical properties of KNN-based lead-free ceramics. RSC Advances, 2015, 5, 19647-19651.	1.7	32
27	Remarkable capacitive performance in novel tungsten bronze ceramics. Dalton Transactions, 2021, 50, 124-130.	1.6	30
28	Large electrostrictive effect in lead-free (Bi.5Na.5)TiO3-based composite piezoceramics. Ceramics International, 2018, 44, 8628-8634.	2.3	28
29	(Bi0.5Na0.5)TiO3-based relaxor ferroelectrics with simultaneous high energy storage properties and remarkable charge-discharge performances under low working electric fields for dielectric capacitor applications. Ceramics International, 2021, 47, 25800-25809.	2.3	25
30	Enhanced energy storage performance in bismuth layer-structured BaBi2Me2O9 (Me = Nb and Ta) relaxor ferroelectric ceramics. Ceramics International, 2020, 46, 15907-15914.	2.3	23
31	Microwave dielectric properties of low temperature sintered ZnWO4â€“TiO2 composite ceramics. Ceramics International, 2015, 41, S435-S440.	2.3	21
32	High energy storage performance in tungsten bronze-based relaxor ceramic via doping with CuO. Scripta Materialia, 2022, 211, 114514.	2.6	16
33	Enhanced thermal stability, hardening of piezoelectric property, and mediated electromechanical response in (Bi0.5Na0.5)TiO3-based piezoceramics via composite approach. Ceramics International, 2018, 44, 17022-17032.	2.3	15
34	Electromechanical response and piezoelectric properties in (Ba0.85Ca0.15)(Zr0.1Ti0.9)O3 piezoceramics using nano-sized AlN modification. Ceramics International, 2018, 44, 16040-16050.	2.3	15
35	Promoting Energy Storage Performance of Sr_{0.7}Ba_{0.3}Nb₂O₆ Tetragonal Tungsten Bronze Ceramic by a Two-Step Sintering Technique. ACS Applied Electronic Materials, 2022, 4, 452-460.	2.0	15
36	Pb/Bi-free Tungsten Bronze-Based Relaxor Ferroelectric Ceramics with Remarkable Energy Storage Performance. ACS Applied Energy Materials, 2021, 4, 9066-9076.	2.5	13

#	Article	IF	Citations
37	Simultaneously achieving high energy storage performance and remarkable thermal stability in Bi0.5K0.5TiO3-based ceramics. Materials Today Energy, 2022, 28, 101078.	2.5	11
38	Integrating chemical engineering and crystallographic texturing design strategy for the realization of practically viable lead-free sodium bismuth titanate-based incipient piezoceramics. Dalton Transactions, 2020, 49, 8661-8671.	1.6	10
39	BaTiO3 nanowires-induced phase transition and thermally stable strain in (Bi0.5Na0.5)TiO3 piezoelectric ceramics. Ceramics International, 2019, 45, 18623-18631.	2.3	9
40	Influences of rare earth site engineering on piezoelectric and electromechanical response of (Ba0.85Ca0.15) (Zr0.1Ti0.9)O3 lead-free ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 6560-6573.	1.1	9
41	Relaxor ferroelectric (Bi0.5Na0.5)TiO3-based ceramic with remarkable comprehensive energy storage performance under low electric field for capacitor applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 21164-21177.	1.1	9
42	Excellent energy storage performance of paraelectric Ba0.4Sr0.6TiO3 based ceramics through induction of polar nano-regions. Ceramics International, 2022, 48, 19864-19873.	2.3	9
43	Effect of Different Templates on Electrical Properties of Textured KNN-Based Ceramics. Ferroelectrics, 2016, 490, 85-93.	0.3	6
44	Tailoring electromechanical performance in BiScO3-modified Bi0.5Na0.5TiO3-based lead-free piezoceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 1491-1501.	1.1	6
45	High Capacitive Performance Achieved in NaNbO 3 â€Based Ceramics via Grain Refinement and Relaxation Enhancement. Energy Technology, 0, , 2100777.	1.8	6
46	Microstructure and Piezoelectric Properties of Lead-Free (K_{0.5}Na_{0.5})NbO₃-LiNbO₃-SrTiO₃Ceramics. Ferroelectrics, 2016, 490, 78-84.	0.3	1
47	Multifunctional bismuth sodium titanate-based ferroelectric ceramics with bright red emission and large strain response. Materials Chemistry and Physics, 2020, 244, 122706.	2.0	0