

Juan Du

List of Publications by Year in descending order

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62
papers

837
citations

567281

15
h-index

552781

26
g-index

62
all docs

62
docs citations

62
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex impedance and electrical conduction analysis of Ho ₂ O ₃ doped CaCu ₃ Ti ₄ O ₁₂ NTC ceramics. Journal of Asian Ceramic Societies, 2022, 10, 165-177.	2.3	6
2	Polarization-induced phase structure transition and change of photoluminescence in Er ³⁺ -doped (Ba, _{1-x} Ti _x) ₂ ETQqO _{0.0} rgBT /Overlock 10 T	3.7	4
3	Optimized piezoelectric properties and temperature stability in PSN \rightarrow PMN \rightarrow PT by adjusting the phase structure and grain size. Journal of the American Ceramic Society, 2021, 104, 6254-6265.	3.8	4
4	Reversible and irreversible domain wall dynamics in [011] _C oriented relaxor ferroelectric single crystals. Journal of the American Ceramic Society, 2020, 103, 3257-3264.	3.8	4
5	Dielectric relaxation, impedance spectra, temperature stability and electrical properties of Sr ₂ MnSbO ₆ -modified KNN ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 959-966.	2.2	3
6	Large electrostrictive effect and strong photoluminescence properties in Sm ₂ O ₃ -modified lead-free potassium sodium niobate-based piezoelectric ceramics. Journal of Materiomics, 2020, 6, 768-780.	5.7	9
7	Intrinsic piezoelectricity in (K,Na)NbO ₃ -based lead-free single crystal: Piezoelectric anisotropy and its evolution with temperature. Applied Physics Letters, 2020, 117, .	3.3	4
8	High-energy storage performance of (1 - x) [0.935(Bi _{0.5} Na _{0.5})TiO ₃ - 0.065BaTiO ₃] - xBa(Zr _{0.3} Ti _{0.7})O ₃ ceramics with wide temperature range. Journal of Materials Science: Materials in Electronics, 2020, 31, 9974-9981.	2.2	15
9	Electrical properties and luminescence properties of 0.96(K _{0.48} Na _{0.52})(Nb _{0.95} Sb _{0.05}) - 0.04Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} ZrO ₃ -xSm lead-free ceramics. Journal of Advanced Ceramics, 2020, 9, 72-82.	17.4	27
10	The photoluminescence and piezoelectric properties of Eu ₂ O ₃ doped KNN-based ceramics. Journal of Alloys and Compounds, 2020, 829, 154518.	5.5	18
11	Intrinsic and extrinsic dielectric contributions to the electrical properties in CaZrO ₃ -doped KNN-based electrical/optical multifunctional ceramics. Journal of Materials Science, 2020, 55, 5741-5749.	3.7	9
12	Enhanced piezoelectric properties in M (M = Co or Zn)-doped Ba _{0.99} Ca _{0.01} Ti _{0.98} Zr _{0.02} O ₃ ceramics. Ceramics International, 2020, 46, 17351-17360.	4.8	32
13	The impedance, dielectric and piezoelectric properties of Tb ₄ O ₇ and Tm ₂ O ₃ doped KNN ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 4352-4358.	2.2	16
14	Large electrostrictive effect and high energy storage performance of Pr ³⁺ -doped PIN-PMN-PT multifunctional ceramics in the ergodic relaxor phase. Journal of the European Ceramic Society, 2019, 39, 4060-4069.	5.7	49
15	Evaluation of reversible and irreversible domain wall motions in relaxor ferroelectrics: Influence of acceptor ions. Applied Physics Letters, 2019, 114, .	3.3	10
16	Temperature stability and electrical properties of Tm ₂ O ₃ doped KNN-based ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 4716-4725.	2.2	9
17	Energy transfer and luminescence properties of a green-to-red color tunable phosphor Sr ₈ MgY(PO ₄) ₇ :Tb ³⁺ ,Eu ³⁺ . Journal of Materials Science: Materials in Electronics, 2019, 30, 9421-9428.	2.2	10
18	Photoluminescence and impedance properties of rare-earth doped (K _{0.5} Na _{0.5})NbO ₃ lead-free ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 9-16.	2.2	18

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19	The effects of terbium oxide on phase transition and electronic properties of potassium-sodium niobate-based ceramics. <i>Journal of Alloys and Compounds</i> , 2019, 776, 984-992.	5.5	5
20	Effect of MnO on the microstructure and electrical properties of SnO ₂ -Zn ₂ SnO ₄ ceramic composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3865-3870.	2.2	8
21	Effect of SmAlO ₃ doping on the properties of (1-x)(K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O ₃ lead-free ceramics. <i>Journal of Electroceramics</i> , 2019, 42, 74-78.	2.0	2
22	Lead-free rare earth-modified (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.86} Ta _{0.1} Sb _{0.04})O ₃ ceramics: phase structure, electrical and photoluminescence properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4791-4800.	2.2	6
23	Poling effects on the structural, electrical and photoluminescence properties in Sm doped BCST piezoelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11312-11319.	5.5	23
24	Influence of orientation on dielectric and ferroelectric properties of the BNT-BT-ST Thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20952-20958.	2.2	2
25	Strong red emission and enhanced electrostrain in (Bi _{0.5} Na _{0.5}) _{0.935} Pr _x Ba _{0.065} Ti _{1-x} Sb _x O ₃ lead-free multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13810-13817.	2.2	4
26	Mn doped ternary relaxor single crystal with high shear piezoelectricity and improved stability. <i>Ceramics International</i> , 2018, 44, 18672-18677.	4.8	3
27	Rare-earth doped (K _{0.5} Na _{0.5})NbO ₃ multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5288-5294.	2.2	7
28	Enhanced piezoelectric properties with a high strain in (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.86} Ta _{0.1} Sb _{0.04})O ₃ -x wt%Sc ₂ O ₃ lead-free ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 224, 110-116.	3.5	14
29	Thickness dependent dielectric and piezoelectric properties of BNT-BT-ST thin films. <i>Ferroelectrics</i> , 2017, 516, 140-147.	0.6	0
30	Improved Piezoelectricity in (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O ₃ -xBi _{0.25} Na _{0.25} NbO ₃ Lead-Free Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , 2017, 46, 116-122.	2.2	3
31	Improved piezoelectricity and high strain response of (1-x)(0.948K _{0.5} Na _{0.5} NbO ₃ -0.052LiSbO ₃)-xBi ₂ O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1211-1216.	2.2	7
32	Electric Field Cycling Induced Large Electrostrain in Aged (K _{0.5} Na _{0.5})NbO ₃ -Cu Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 402-405.	3.8	22
33	Field-induced large strain in lead-free (Bi _{0.5} Na _{0.5}) _{1-x} Ba _x Ti _{0.98} (Fe _{0.5} Ta _{0.5}) _{0.02} O ₃ piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 677, 96-104.	5.5	37
34	Enhanced temperature stability and fatigue-resistant behavior in MgTiO ₃ -doped 0.948(K _{0.5} Na _{0.5})NbO ₃ -0.052LiSbO ₃ lead-free ceramics. <i>Ceramics International</i> , 2016, 42, 8051-8057.	4.8	4
35	Bright upconversion emission and enhanced piezoelectric properties in Er-modified bismuth layer-structured SrCaBi ₄ Ti ₅ O ₁₈ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5259-5263.	2.2	3
36	Enhanced dielectric and piezoelectric properties of (100) oriented Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ -SrTiO ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8911-8915.	2.2	2

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37	(K _{0.5} Na _{0.5}) _{0.96} Li _{0.04} Nb _{0.86} Ta _{0.1} Sb _{0.04} O ₃ â€“(SrZrO ₃ ceramics with good fatigue-resistance and temperature-stable piezoelectric properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 13249-13258.	2.2	4
38	Structure and electrical properties of lead-free Sr _{1-x} (K,Ce) _{x/2} (Na _{0.5} Bi _{0.5}) ₄ Ti ₅ O ₁₈ piezoelectric ceramics. RSC Advances, 2016, 6, 13803-13808.	3.6	184
39	Enhanced electrical properties of lead-free (1-x)(K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O ₃ â€“(xSrZrO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 6535-6541.	2.2	5
40	Electric field-induced ultrahigh strain and large piezoelectric effect in Bi _{1/2} Na _{1/2} TiO ₃ -based lead-free piezoceramics. Journal of the European Ceramic Society, 2016, 36, 489-496.	5.7	96
41	Influence of B-site non-stoichiometry on electrical properties of (K _{0.458} Na _{0.542}) _{0.96} Li _{0.04} Nb _{0.85} Ta _{0.15} Sb _x O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 1197-1200.	2.2	2
42	Effects of BiFe _{0.5} Ta _{0.5} O ₃ addition on electrical properties of K _{0.5} Na _{0.5} NbO ₃ lead-free piezoelectric ceramics. Ceramics International, 2016, 42, 1943-1949.	4.8	15
43	Effect of (Bi _{0.5} K _{0.5})TiO ₃ on the electrical properties, thermal and fatigue behavior of (K _{0.5} Na _{0.5})NbO ₃ -based lead-free piezoelectrics. Journal of Materials Research, 2015, 30, 2018-2029.	2.6	14
44	Bright reddish-orange emission and good piezoelectric properties of Sm ₂ O ₃ -modified (K _{0.5} Na _{0.5})NbO ₃ -based lead-free piezoelectric ceramics. Journal of Applied Physics, 2015, 117, .	2.5	48
45	Enhanced thermal stability and fatigue resistance in MTiO ₃ -modified (K _{0.5} Na _{0.5}) _{0.94} Li _{0.06} NbO ₃ lead-free piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 7867-7872.	2.2	10
46	Structure and electrical properties of Bi _{1/2} Na _{1/2} TiO ₃ -based lead-free piezoelectric ceramics. RSC Advances, 2015, 5, 41646-41652.	3.6	19
47	Lead-free electrostrictive (Bi _{0.5} Na _{0.5})TiO ₃ â€“(Bi _{0.5} K _{0.5})TiO ₃ â€“(K _{0.5} Na _{0.5})NbO ₃ ceramics with good thermostability and fatigue-free behavior. Journal of Materials Science, 2015, 50, 5328-5336.	3.7	48
48	Investigation of structural and electrical properties of B-site complex ion (Nd _{1/2} Ta _{1/2}) ₄₊ -doped Bi _{1/2} Na _{1/2} TiO ₃ lead-free piezoelectric ceramic. Journal of Materials Science: Materials in Electronics, 2015, 26, 5409-5415.	2.2	4
49	Large strain response and fatigue-resistant behavior in lead-free Bi _{0.5} (Na _{0.80} K _{0.20}) _{0.5} TiO ₃ â€“(K _{0.5} Na _{0.5}) _{0.6} (M = Sb, Ta) ceramics. RSC Advances, 2015, 5, 82605-82616.	3.6	10
50	Largely enhanced piezoelectric and luminescent properties of Er doped BST ceramics. RSC Advances, 2015, 5, 91903-91907.	3.6	10
51	High strain in (Bi _{1/2} Na _{1/2}) _{0.935} Ba _{0.065} TiO ₃ â€“(Sr ₃ FeNb ₂) _{0.5} lead-free ceramics with giant piezoresponse. RSC Advances, 2015, 5, 90508-90514.	3.6	10
52	Microstructure and piezoelectric properties of Ho ₂ O ₃ doped (K _{0.4} Na _{0.6}) _{0.95} Li _{0.05} Nb _{0.95} Sb _{0.05} O ₃ lead-free ceramics near the rhombohedralâ€“(orthorhombic phase boundary. Journal of Materials Science: Materials in Electronics, 2015, 26, 9654-9660.	2.2	2
53	Properties of B-site non-stoichiometric (K _{0.5} Na _{0.5})(Nb _{0.9} Ta _{0.1}) _{1+x} O ₃ lead-free piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 1085-1088.	2.2	2
54	Sintering and electrical properties of La-modified (Na _{0.52} K _{0.45} Li _{0.03}) _{1-x} Lax(Nb _{0.88} Sb _{0.09} Ta _{0.03})O ₃ lead-free ceramics. Ceramics International, 2014, 40, 4319-4322.	4.8	11

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55	SmAlO ₃ -modified (K _{0.5} Na _{0.5}) _{0.95} Li _{0.05} Sb _{0.05} Nb _{0.95} O ₃ lead-free ceramics with a wide sintering temperature range. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 1027-1031.	3.5	10
56	Effect of chemical plating Zn on DC-etching behavior of Al foil in HCl/H ₂ SO ₄ . <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3650-3657.	4.2	16
57	Piezoelectric properties and time stability of lead-free (Na _{0.52} K _{0.44} Li _{0.04})Nb _{1-x} Sb _x TaO ₃ ceramics. <i>Ceramics International</i> , 2013, 39, 2135-2139.	4.8	18
58	Dielectric and piezoelectric properties of (K _{0.48} Na _{0.52})Nb _{1-x} (Mo _{3/4} Sr _{1/4}) _x O ₃ lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 2053-2056.	2.2	3
59	Effects of CaAl ₂ O ₄ on the electrical properties and temperature stability of (Na _{0.53} K _{0.404} Li _{0.066})Nb _{0.92} Sb _{0.08} O ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2012, 541, 454-457.	5.5	13
60	Electrical properties of B site substituted (K _{0.48} Na _{0.52})(W _{2/3} Bi _{1/3}) _x Nb _{1-x} O ₃ piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 977-980.	2.2	12
61	Structural, dielectric and piezoelectric features of (Na _{0.52} K _{0.44} Li _{0.04})Nb _{0.87} Sb _{0.08} Ta _{0.05} O ₃ ceramics. <i>Materials Letters</i> , 2012, 79, 89-91.	2.6	17
62	Microstructure and electrical properties of (Na _{1.015-x} K _x)NbO ₃ lead-free piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1282-1285.	2.2	5