

Robert Dittmer

List of Publications by Year in descending order

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23
papers

3,228
citations

361413

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642732

23
g-index

24
all docs

24
docs citations

24
times ranked

2229
citing authors

#	ARTICLE	IF	CITATIONS
1	Transferring lead-free piezoelectric ceramics into application. Journal of the European Ceramic Society, 2015, 35, 1659-1681.	5.7	1,050
2	Giant electric-field-induced strains in lead-free ceramics for actuator applications – status and perspective. Journal of Electroceramics, 2012, 29, 71-93.	2.0	813
3	Nanoscale Insight Into Lead-Free BNT-Based KNN. Advanced Functional Materials, 2012, 22, 4208-4215.	14.9	225
4	Lead-free high-temperature dielectrics with wide operational range. Journal of Applied Physics, 2011, 109, .	2.5	176
5	Electric-field-induced strain mechanisms in lead-free 94%(Bi _{1/2} Na _{1/2})TiO ₃ –6%BaTiO ₃ . Applied Physics Letters, 2011, 98, .	3.3	143
6	A High-Temperature Capacitor Dielectric Based on (K _{0.5} Na _{0.5} NbO ₃) _{1-x} (Bi _{1/2} Na _{1/2} TiO ₃) _x . Journal of the American Ceramic Society, 2012, 95, 3519-3524.	3.8	121
7	Relaxor Characteristics of Morphotropic Phase Boundary (Bi _{1/2} Na _{1/2} TiO ₃) _{1-x} (Bi _{1/2} K _{1/2} TiO ₃) _x Modified with Bi(Zn _{1/2} Ti _{1/2} O ₃) ₃ . Journal of the American Ceramic Society, 2011, 94, 4283-4290.	3.8	120
8	Bipolar and Unipolar Fatigue of Ferroelectric BNT-Based Lead-Free Piezoceramics. Journal of the American Ceramic Society, 2011, 94, 529-535.	3.8	83
9	Ergodicity reflected in macroscopic and microscopic field-dependent behavior of BNT-based relaxors. Journal of Applied Physics, 2014, 115, .	2.5	71
10	Electric-field-induced polarization and strain in 0.94(Bi _{1/2} Na _{1/2})TiO ₃ –0.06BaTiO ₃ under uniaxial stress. Acta Materialia, 2013, 61, 1350-1358.	7.9	61
11	Nanoscale phase quantification in lead-free (K _{0.5} Na _{0.5} NbO ₃) _{1-x} (Bi _{1/2} Na _{1/2} TiO ₃) _x . Physical Review B, 2014, 90, .	2.5	57
12	Structure and properties of La-modified Na _{0.5} Bi _{0.5} TiO ₃ at ambient and elevated temperatures. Journal of Applied Physics, 2012, 112, .	2.5	44
13	Temperature-Dependent Phase Transitions in the Lead-Free Piezoceramics (1-x)(K _{0.5} Na _{0.5} NbO ₃) _{1-x} (Bi _{1/2} Na _{1/2} TiO ₃) _x Observed by in situ Transmission Electron Microscopy and Dielectric Measurements. Journal of the American Ceramic Society, 2013, 96, 3312-3324.	3.8	37
14	Optimal working regime of lead-free zirconate-titanate for actuation applications. Sensors and Actuators A: Physical, 2013, 189, 187-194.	4.1	36
15	Frequency-dependence of large-signal properties in lead-free piezoceramics. Journal of Applied Physics, 2012, 112, .	2.5	35
16	Visualization of polar nanoregions in lead-free relaxors via piezoresponse force microscopy in torsional dual AC resonance tracking mode. Nanoscale, 2015, 7, 11787-11796.	5.6	30
17	Large blocking force in Bi _{1/2} Na _{1/2} TiO ₃ -based lead-free piezoceramics. Scripta Materialia, 2012, 67, 100-103.	5.2	29
18	Investigation of the depolarisation transition in Bi-based relaxor ferroelectrics. Journal of Applied Physics, 2014, 115, .	2.5	25

#	ARTICLE	IF	CITATIONS
19	Peculiar Bi-ion dynamics in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ from terahertz and microwave dielectric spectroscopy. <i>Phase Transitions</i> , 2014, 87, 953-965.	1.3	24
20	Macroscopic and Nanoscopic Polarization Relaxation Kinetics in Lead-Free Relaxors $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3904-3912.	3.0	30
21	Local structure change evidenced by temperature-dependent elastic measurements: Case study on $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -based lead-free relaxor piezoceramics. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	15
22	Microstructural Analysis and Mechanical Properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ Fibers Derived by Different Processing Routes. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2403-2410.	3.8	11
23	A novel method to determine the electric, piezoelectric and elastic coefficients of fine scale piezoceramic fibers. , 2013, , .		0