

Ljubomira A Schmitt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2665999/publications.pdf>

Version: 2024-02-01

30
papers

2,400
citations

394286

19
h-index

454834

30
g-index

31
all docs

31
docs citations

31
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	On the phase identity and its thermal evolution of lead free $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ -6%mol% BaTiO_3 . Journal of Applied Physics, 2011, 110, .	1.1	749
2	Nanodomain structure of $\text{Pb}[\text{Zr}_{1-x}\text{Ti}_x]\text{O}_3$ at its morphotropic phase boundary: Investigations from local to average structure. Physical Review B, 2007, 75, .	1.1	264
3	Relaxor/Ferroelectric Composites: A Solution in the Quest for Practically Viable Lead-Free Incipient Piezoceramics. Advanced Functional Materials, 2014, 24, 356-362.	7.8	148
4	Developments in nanostructured LIMPO4 (M = Fe, Co, Ni, Mn) composites based on three dimensional carbon architecture. Chemical Society Reviews, 2012, 41, 5068.	18.7	132
5	Nanodomains in morphotropic lead zirconate titanate ceramics: On the origin of the strong piezoelectric effect. Journal of Applied Physics, 2007, 102, .	1.1	128
6	Average vs. local structure and composition-property phase diagram of $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ - $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ system. Journal of the European Ceramic Society, 2017, 37, 1387-1399.	2.8	118
7	Core-Shell Lead-Free Piezoelectric Ceramics: Current Status and Advanced Characterization of the $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ - SrTiO_3 System. Journal of the American Ceramic Society, 2015, 98, 3405-3422.	1.9	116
8	Local structure, pseudosymmetry, and phase transitions in $\text{NaBi}_2\text{Ti}_2\text{O}_9$. Physical Review B, 2013, 87, .	1.1	97
9	Structural investigations on lead-free $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -based piezoceramics. Journal of Materials Science, 2011, 46, 4368-4376.	1.7	96
10	Composition dependence of the domain configuration and size in $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ ceramics. Journal of Applied Physics, 2007, 101, 074107.	1.1	93
11	Temperature and driving field dependence of fatigue processes in PZT bulk ceramics. Acta Materialia, 2011, 59, 6083-6092.	3.8	58
12	Cyclic electric field response of morphotropic $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ - BaTiO_3 piezoceramics. Applied Physics Letters, 2015, 106, .	1.5	53
13	De-aging of Fe-doped lead-zirconate-titanate ceramics by electric field cycling: 180° - vs. non- 180° domain wall processes. Journal of Applied Physics, 2012, 112, .	1.1	49
14	SINGLE GRAINS HOSTING TWO SPACE GROUPS – A TRANSMISSION ELECTRON MICROSCOPY STUDY OF A LEAD-FREE FERROELECTRIC. Functional Materials Letters, 2010, 03, 55-58.	0.7	44
15	In situ electric field induced domain evolution in $\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ - $0.3(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ ferroelectrics. Applied Physics Letters, 2014, 105, 112904.		38
16	Comparative study of two lead-free piezoceramics using diffraction techniques. Journal of Applied Crystallography, 2010, 43, 805-810.	1.9	36
17	Experimental measurement of stress at a four-domain junction in lead zirconate titanate. Journal of Applied Physics, 2005, 97, 094102.	1.1	30
18	Piezoelectricity and rotostriction through polar and non-polar coupled instabilities in bismuth-based piezoceramics. Scientific Reports, 2016, 6, 28742.	1.6	23

#	ARTICLE	IF	CITATIONS
19	Structure and temperature-dependent phase transitions of lead-free $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ – $\text{Bi}_{1/2}\text{K}_{1/2}\text{TiO}_3$ – $\text{K}_0.5\text{Na}_0.5\text{NbO}_3$ piezoceramics. <i>Journal of Materials Research</i> , 2012, 27, 2466-2478.	1.2	20
20	Hybrid Architectures from 3D Aligned Arrays of Multiwall Carbon Nanotubes and Nanoparticulate LiCoPO_4 : Synthesis, Properties and Evaluation of Their Electrochemical Performance as Cathode Materials in Lithium Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4349-4359.	1.0	17
21	A-site occupancy in the lead-free $(\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3)_{0.94}$ – $(\text{BaTiO}_3)_{0.06}$ piezoceramic: Combining first-principles study and TEM. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	16
22	A -site doping-induced renormalization of structural transformations in the $\text{PbSc}_{1-x}\text{Ti}_x\text{O}_3$ ferroelectrics. <i>Physical Review B</i> , 2010, 81, .	1.1	15
23	Disordered carbon nanofibers/ LiCoPO_4 composites as cathode materials for lithium ion batteries. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 98-110.	1.1	15
24	Influence of B -site Disorder on the Properties of Unpoled $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ – $0.06\text{Ba}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2801-2808.	1.0	8
25	Interfacial microstructure of $\text{Fe}/\text{AlO}_x/\text{Fe}$ magnetic tunnel junctions in high resolution. <i>Applied Physics Letters</i> , 2006, 88, 122505.	1.5	9
26	Bimodal domain configuration and wedge formation in tetragonal $\text{Pb}[\text{Zr}_{1-x}\text{Ti}_x]\text{O}_3$ ferroelectrics. <i>Computational Materials Science</i> , 2014, 81, 123-132.	1.4	9
27	In situ hot-stage transmission electron microscopy of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$. <i>Phase Transitions</i> , 2008, 81, 323-329.	0.6	6
28	The Impact of Heat Treatment on the Domain Configuration and Strain Behavior in $\text{Pb}[\text{Zr}_x\text{Ti}_{1-x}]\text{O}_3$ Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2015, 98, 269-277.	1.9	5
29	Identification and quantification of stress concentrations in ferroelectrics using Kikuchi pattern indexing. <i>Journal of Physics: Conference Series</i> , 2006, 26, 243-246.	0.3	2
30	Heat treatment effects on domain configuration and strain under electric field in undoped $\text{Pb}[\text{Zr}_x\text{Ti}_{1-x}]\text{O}_3$ ferroelectrics. , 2013, .		0