Ljubomira A Schmitt

List of Publications by Year
in descending order

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	Average vs. local structure and composition-property phase diagram of K0.5Na0.5NbO3-BiÂ½NaÂ½TiO3 system. Journal of the European Ceramic Society, 2017, 37, 1387-1399.	2.8	118
2	Influence of Bâ€Site Disorder on the Properties of Unpoled Bi_{1/2}Na_{1/2}TiO₃â€0.06Ba(Zr_{<i>x</i>}Ti_{1â€<i>x</i>})O₃ Piezoceramics. Journal of the American Ceramic Society, 2016, 99, 2801-2808.	1.9	30
3	Piezoelectricity and rotostriction through polar and non-polar coupled instabilities in bismuth-based piezoceramics. Scientific Reports, 2016, 6, 28742.	1.6	23
4	Coreâ€"Shell Leadâ€"Free Piezoelectric Ceramics: Current Status and Advanced Characterization of the Bi_{1/2}Na_{1/2}TiO₃â€"SrTiO₃ System. Journal of the American Ceramic Society, 2015, 98, 3405-3422.	1.9	116
5	Cyclic electric field response of morphotropic Bi1/2Na1/2TiO3-BaTiO3 piezoceramics. Applied Physics Letters, 2015, 106, .	1.5	53
6	The Impact of Heat Treatment on the Domain Configuration and Strain Behavior in Pb[Zr,Ti]O₃ Ferroelectrics. Journal of the American Ceramic Society, 2015, 98, 269-277.	1.9	5
7	<i>In situ</i> electric field induced domain evolution in Ba(Zr_{0.2}Ti_{0.8})O₃-0.3(Ba_{0.7}Ca_{0.3})TiO₃ ferroelectrics. Applied Physics Letters, 2014, 105, 112904.	1.5	38
8	Relaxor/Ferroelectric Composites: A Solution in the Quest for Practically Viable Leadâ€Free Incipient Piezoceramics. Advanced Functional Materials, 2014, 24, 356-362.	7.8	148
9	Bimodal domain configuration and wedge formation in tetragonal Pb[Zr1â^'xTix]O3 ferroelectrics. Computational Materials Science, 2014, 81, 123-132.	1.4	9
10	Heat treatment effects on domain configuration and strain under electric field in undoped Pb[Zr<inf>x</inf>Ti<inf>1−x</inf>]O<inf>3</inf> ferroelectrics. , 2013, , .		0
11	Local structure, pseudosymmetry, and phase transitions in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>TiO<m xmlns:mml="http://www.w3.org/1998/Math/MathML" disp... Physical Review B, 2013, 87, , .	1.1	97
12	Structure and temperature-dependent phase transitions of lead-free Bi1/2Na1/2TiO3â€"Bi1/2K1/2TiO3â€"K0.5Na0.5NbO3 piezoceramics. Journal of Materials Research, 2012, 27, 2466-2478.	1.2	20
13	De-aging of Fe-doped lead-zirconate-titanate ceramics by electric field cycling: 180Â°- vs. non-180Â° domain wall processes. Journal of Applied Physics, 2012, 112, .	1.1	49
14	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
15	Disordered carbon nanofibers/LiCoPO4 composites as cathode materials for lithium ion batteries. Journal of Sol-Gel Science and Technology, 2012, 62, 98-110.	1.1	15
16	On the phase identity and its thermal evolution of lead free (Bi1/2Na1/2)TiO3-6â€‰mol% BaTiO3. Journal of Applied Physics, 2011, 110, .	1.1	749
17	Temperature and driving field dependence of fatigue processes in PZT bulk ceramics. Acta Materialia, 2011, 59, 6083-6092.	3.8	58
18	Structural investigations on lead-free Bi1/2Na1/2TiO3-based piezoceramics. Journal of Materials Science, 2011, 46, 4368-4376.	1.7	96

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19	Hybrid Architectures from 3D Aligned Arrays of Multiwall Carbon Nanotubes and Nanoparticulate LiCoPO₄: Synthesis, Properties and Evaluation of Their Electrochemical Performance as Cathode Materials in Lithium Ion Batteries. European Journal of Inorganic Chemistry, 2011, 2011, 4349-4359.	1.0	17
20	Comparative study of two lead-free piezoceramics using diffraction techniques. Journal of Applied Crystallography, 2010, 43, 805-810.	1.9	36
21	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>-site doping-induced renormalization of structural transformations in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PbSc</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2010, 81, .	1.1	15
22	A-site occupancy in the lead-free (Bi1/2Na1/2TiO3)0.94â€“(BaTiO3)0.06 piezoceramic: Combining first-principles study and TEM. Journal of Applied Physics, 2010, 107, .	1.1	16
23	SINGLE GRAINS HOSTING TWO SPACE GROUPS â€” A TRANSMISSION ELECTRON MICROSCOPY STUDY OF A LEAD-FREE FERROELECTRIC. Functional Materials Letters, 2010, 03, 55-58.	0.7	44
24	In situhot-stage transmission electron microscopy of Pb(Zr0.52Ti0.48)O3. Phase Transitions, 2008, 81, 323-329.	0.6	6
25	Nanodomain structure ofPb[Zr1â^'xTix]O3at its morphotropic phase boundary: Investigations from local to average structure. Physical Review B, 2007, 75, .	1.1	264
26	Composition dependence of the domain configuration and size in Pb(Zr1â^'xTix)O3 ceramics. Journal of Applied Physics, 2007, 101, 074107.	1.1	93
27	Nanodomains in morphotropic lead zirconate titanate ceramics: On the origin of the strong piezoelectric effect. Journal of Applied Physics, 2007, 102, .	1.1	128
28	Identification and quantification of stress concentrations in ferroelectrics using Kikuchi pattern indexing. Journal of Physics: Conference Series, 2006, 26, 243-246.	0.3	2
29	Interfacial microstructure of Feâ•AlOxâ•Fe magnetic tunnel junctions in high resolution. Applied Physics Letters, 2006, 88, 122505.	1.5	9
30	Experimental measurement of stress at a four-domain junction in lead zirconate titanate. Journal of Applied Physics, 2005, 97, 094102.	1.1	30