

# Eriks Birks

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Direct and indirect determination of electrocaloric effect in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . Journal of Applied Physics, 2017, 121, .	2.5	37
2	Structure and dielectric properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -CaTiO <sub>3</sub> solid solutions. Journal of Applied Physics, 2016, 119, .	2.5	33
3	X-ray studies of electrocaloric lead-scandium tantalate ordered solid solutions. Ferroelectrics, 1989, 90, 165-172.	0.6	31
4	Dielectric properties of $\langle \text{mml:math altimg="si13.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	7.9	23
5	Radiation effects on lead-containing perovskite ceramics. Ferroelectrics, 1996, 183, 301-310.	0.6	20
6	High Electrocaloric Effect in Ferroelectrics. Ferroelectrics, 2010, 400, 336-343.	0.6	20
7	Influence of sintering temperature on microstructure of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics. Journal of Alloys and Compounds, 2021, 884, 160955.	5.5	20
8	Electrocaloric effect in PLZT ceramics. Ferroelectrics, 1986, 69, 125-129.	0.6	19
9	The electrocaloric effect in Pb(Sc <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> ceramic. Physica Status Solidi A, 1986, 94, 523-527.	1.7	16
10	Effects of structure ordering, structure defects and external conditions on properties of complex ferroelectric perovskites. Ferroelectrics, 1998, 217, 307-317.	0.6	16
11	PHASE TRANSITIONS IN Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> SOLID SOLUTIONS. Integrated Ferroelectrics, 2009, 108, 125-133.	0.7	16
12	Phase transitions and properties of perovskite ferroelectric ceramics and films for certain applications. Ferroelectrics, 1999, 226, 217-241.	0.6	15
13	Ultrasonic study of normal-incommensurate-commensurate phase transitions in [N(CH <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> MnCl <sub>4</sub> . Physical Review B, 1994, 49, 6515-6521.	3.2	14
14	Structure and Dielectric Properties of Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> Solid Solutions. Ferroelectrics, 2013, 447, 1-8.	0.6	14
15	Phase State and Structure of Ferroelectric Ceramics under Irradiation. Key Engineering Materials, 1997, 132-136, 1096-1099.	0.4	12
16	Phase Transitions in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions. Ferroelectrics, 2010, 405, 57-61.	0.6	11
17	Phase transitions of Pb <sub>0.99</sub> Nb <sub>0.02</sub> (Zr <sub>0.75</sub> Sn <sub>0.20</sub> Ti <sub>0.05</sub> )O <sub>3</sub> ceramics. Ferroelectrics, 2001, 258, 61-70.	0.6	8
18	Phase transitions in modified Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> â€¦SrTiO <sub>3</sub> solid solutions. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2737-2739.	0.8	8

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19	Electocaloric Effect in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions. <i>Ferroelectrics</i> , 2012, 428, 20-26.	0.6	8
20	Dielectric memory effects in ferroelectric ceramics of PLZT and PMN. <i>Ferroelectrics</i> , 1988, 81, 317-321.	0.6	7
21	Radiation damage of PLZT and PSN ceramics. <i>Ferroelectrics</i> , 1994, 153, 309-314.	0.6	7
22	High electrocaloric effect ferroelectric ceramics. <i>Ferroelectrics</i> , 1989, 94, 305-305.	0.6	5
23	X-ray diffraction and Raman spectroscopy studies in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions. <i>Ferroelectrics</i> , 2016, 503, 52-59.	0.6	5
24	The role of disorder on Er <sup>3+</sup> luminescence in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2018, 762, 326-333.	5.5	5
25	Dielectric relaxation and structure change at the ferroelectric phase transition in single crystals BaTiO <sub>3</sub> and PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> . <i>Crystal Research and Technology: Journal of Experimental and Industrial Crystallography</i> , 1980, 15, K99.	0.3	4
26	Structure and superconductivity of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> -BaTiO <sub>3</sub> composites. <i>Ferroelectrics</i> , 1992, 131, 375-378.	0.6	4
27	Phase Transitions in Modified Na <sub>1/2</sub> Ba <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions. <i>Ferroelectrics</i> , 2011, 414, 190-194.	0.6	4
28	Dynamics of Phase Transition in 0.4NBT-0.4ST-0.2PT Solid Solution. <i>Integrated Ferroelectrics</i> , 2012, 134, 81-87.	0.7	4
29	Structure and dielectric properties at phase transition of Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> solid solutions. <i>Ferroelectrics</i> , 2016, 500, 47-53.	0.6	4
30	The role of structural disorder on luminescence of Eu-doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2020, 128, 244104.	2.5	4
31	Composition and microstructure of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics with excess Bi. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3874-3884.	3.8	4
32	PHASE TRANSITIONS IN THE PLZT x/85/15 SOLID SOLUTIONS. <i>Integrated Ferroelectrics</i> , 2008, 102, 44-51.	0.7	3
33	Description of Relaxor State in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> System of Solid Solutions. <i>Integrated Ferroelectrics</i> , 2011, 123, 40-46.	0.7	3
34	Study of Tetragonal Phase in 0.4Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -(0.6-x)SrTiO <sub>3</sub> -xPbTiO <sub>3</sub> Solid Solutions by Second-Harmonic Generation. <i>Ferroelectrics</i> , 2015, 485, 53-57.	0.6	3
35	Interpretation of the Electrocaloric Effect in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions. <i>Ferroelectrics</i> , 2015, 485, 143-152.	0.6	3
36	Electromechanical properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 114, 94-99.	4.0	3

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37	Grain growth in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based solid solutions. <i>Integrated Ferroelectrics</i> , 2019, 196, 112-119.	0.7	3
38	Impact of Thermal Treatment on the Surface of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -Based Ceramics. <i>Crystals</i> , 2021, 11, 1266.	2.2	3
39	Dielectric polarization in PLZT X/65/35 and PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> at the diffuse phase transition. <i>Ferroelectrics</i> , 1992, 131, 183-188.	0.6	2
40	Relation between deformation and polarization in the region of diffused phase transition of plzt 8/65/35. <i>Ferroelectrics</i> , 1995, 173, 45-51.	0.6	2
41	Radiation effects in transparent ferroelectric ceramics. , 1997, , .		2
42	Phase Transitions and Electrocaloric Effect in Ca-Modified Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> â€“SrTiO <sub>3</sub> â€“PbTiO <sub>3</sub> Solid Solutions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1364-1367.	3.0	2
43	Photoluminescence in Er-doped 0.4Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -(0.6-x)SrTiO <sub>3</sub> -xPbTiO <sub>3</sub> solid solutions. <i>Ferroelectrics</i> , 2020, 567, 150-159.		2
44	Nature of phase transitions in lead-containing perovskites with regard to specific applications. <i>Ferroelectrics</i> , 1994, 158, 363-368.	0.6	1
45	Properties of lead containing perovskites oriented for application in electronics and electrooptics. , 0, , .		1
46	Evolution of dielectric properties in transparent PLZT 8.3/70/30 ceramics at the diffused phase transition. <i>Ferroelectrics</i> , 1999, 234, 263-272.	0.6	1
47	Effects of structure ordering in complex ferroelectric perovskites. <i>Ferroelectrics</i> , 1999, 223, 107-111.	0.6	1
48	Evolution of dielectric permittivity under applied field in PLZT 8.3/70/30 ceramics. <i>Ferroelectrics</i> , 2000, 240, 1465-1471.	0.6	1
49	Thermal Expansion, Burns Temperature and Electromechanical Properties in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions. <i>Ferroelectrics</i> , 2011, 424, 15-20.	0.6	1
50	Relation of Dielectric Permittivity and Electric Field Dependence of Polarization in Some Relaxors with Perovskite Structure. <i>Ferroelectrics</i> , 2011, 424, 21-27.	0.6	1
51	Structure and Physical Properties of Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -CdTiO <sub>3</sub> Solid Solutions. <i>Ferroelectrics</i> , 2011, 417, 93-99.	0.6	1
52	Phase Transitions in Li, K and Ag Modified Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -SrTiO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions. <i>Ferroelectrics</i> , 2012, 436, 12-18.	0.6	1
53	Dielectric and Polarization Properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> Solid Solutions with Na and K Niobates. <i>Ferroelectrics</i> , 2015, 485, 80-88.	0.6	1
54	Phase transitions in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -(Sr <sub>0.7</sub> Bi <sub>0.2</sub> )TiO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions. <i>Ferroelectrics</i> , 2016, 498, 94-101.	0.6	1

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55	Novel octahedral tilt system a + b + c + in $(1-x)Na_{0.5}Bi_{0.5}TiO_3-xCdTiO_3$ solid solutions. Journal of Materials Science, 2017, 52, 7149-7157.	3.7	1
56	Two-phase dielectric polar structures in 0.1NBT-0.6ST-0.3PT solid solutions. Acta Materialia, 2018, 153, 117-125.	7.9	1
57	Revision of the freezing concept in relaxor ferroelectrics: the case of $Na_{0.5}Bi_{0.5}TiO_3-Sr_{0.7}Bi_{0.2}TiO_3$ solid solutions. Ferroelectrics, 2020, 569, 266-279.	0.6	1
58	Electrocaloric Effect in $(1-x)(0.8Na_{0.5}Bi_{0.5}TiO_3-0.2BaTiO_3)-xCaTiO_3$ Solid Solutions at High Electric Fields. Crystals, 2022, 12, 134.	2.2	1
59	Electromechanical properties in $CaTiO_3$ modified $Na_{0.5}Bi_{0.5}TiO_3-BaTiO_3$ solid solutions above morphotropic phase boundary. AIP Advances, 2022, 12, 035124.	1.3	1
60	Novel approach in analyzing phase transitions in $Na_{0.5}Bi_{0.5}TiO_3$ Comparison with $0.95Na_{0.5}Bi_{0.5}TiO_3-0.05CaTiO_3$ . Journal of Applied Physics, 2022, 131, .	2.5	1
61	Methods for studying ferroelectrics (bulk samples and films) in the microwave range. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1981, 24, 753-765.	0.0	0
62	Composites of Ferroelectric and Superconductive Ceramics: Synthesis and Diagnostics of Basic Properties. Materials Science Forum, 1991, 62-64, 269-270.	0.3	0
63	Modified lead containing perovskite ceramics for electrooptic, electrocaloric, pyroelectric and electrostrictive applications. , 0, , .		0
64	Radiation effects on optical and dielectric properties of PLZT and PSN ceramics. , 0, , .		0
65	The Nature of Dielectric Dispersion in PLZT Ceramics. Ferroelectrics, 2002, 272, 231-236.	0.6	0
66	Structure and dielectric properties of $Na_{1/2}Bi_{1/2}TiO_3-BaTiO_3$ solid solutions. , 2012, , .		0
67	Phase transitions and physical properties in Ca-modified $Na_{1/2}Bi_{1/2}TiO_3-SrTiO_3-PbTiO_3$ solid solutions. Physica Scripta, 2014, 89, 044012.	2.5	0