

# Eriks Birks

## List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Electrocaloric Effect in $(1-x)(0.8\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-0.2\text{BaTiO}_3)_x\text{CaTiO}_3$ Solid Solutions at High Electric Fields. Crystals, 2022, 12, 134.	2.2	1
2	Composition and microstructure of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ ceramics with excess Bi. Journal of the American Ceramic Society, 2022, 105, 3874-3884.	3.8	4
3	Electromechanical properties in $\text{CaTiO}_3$ modified $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - $\text{BaTiO}_3$ solid solutions above morphotropic phase boundary. AIP Advances, 2022, 12, 035124.	1.3	1
4	Novel approach in analyzing phase transitions in $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ Comparison with $0.95\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-0.05\text{CaTiO}_3$ . Journal of Applied Physics, 2022, 131, .	2.5	1
5	Influence of sintering temperature on microstructure of $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ ceramics. Journal of Alloys and Compounds, 2021, 884, 160955.	5.5	20
6	Impact of Thermal Treatment on the Surface of $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ -Based Ceramics. Crystals, 2021, 11, 1266.	2.2	3
7	Photoluminescence in Er-doped $0.4\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3-(0.6-x)\text{SrTiO}_3-x\text{PbTiO}_3$ solid solutions. Ferroelectrics, 2020, 567, 150-159.	3.1	2
8	The role of structural disorder on luminescence of Eu-doped $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ . Journal of Applied Physics, 2020, 128, 244104.	2.5	4
9	Revision of the freezing concept in relaxor ferroelectrics: the case of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - $\text{Sr}_{0.7}\text{Bi}_{0.2}\text{TiO}_3$ solid solutions. Ferroelectrics, 2020, 569, 266-279.	0.6	1
10	Grain growth in $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ -based solid solutions. Integrated Ferroelectrics, 2019, 196, 112-119.	0.7	3
11	Two-phase dielectric polar structures in $0.1\text{NBT}-0.6\text{ST}-0.3\text{PT}$ solid solutions. Acta Materialia, 2018, 153, 117-125.	7.9	1
12	Electromechanical properties of $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ - $\text{SrTiO}_3$ - $\text{PbTiO}_3$ solid solutions. Journal of Physics and Chemistry of Solids, 2018, 114, 94-99.	4.0	3
13	The role of disorder on $\text{Er}^{3+}$ luminescence in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ . Journal of Alloys and Compounds, 2018, 762, 326-333.	5.5	5
14	Novel octahedral tilt system $a + b + c + in (1-x)\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-x\text{CdTiO}_3$ solid solutions. Journal of Materials Science, 2017, 52, 7149-7157.	3.7	1
15	Direct and indirect determination of electrocaloric effect in $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ . Journal of Applied Physics, 2017, 121, .	2.5	37
16	Structure and dielectric properties of $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ - $\text{CaTiO}_3$ solid solutions. Journal of Applied Physics, 2016, 119, .	2.5	33
17	Phase transitions in $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ - $(\text{Sr}_{0.7}\text{Bi}_{0.2})\text{TiO}_3$ - $\text{PbTiO}_3$ solid solutions. Ferroelectrics, 2016, 498, 94-101.	0.6	1
18	X-ray diffraction and Raman spectroscopy studies in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ - $\text{SrTiO}_3$ - $\text{PbTiO}_3$ solid solutions. Ferroelectrics, 2016, 503, 52-59.	0.6	5

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19	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
20	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
21	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
22	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
23	Phase Transitions and Electrocaloric Effect in Ca-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>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1364-1367.	7.9	23
24	Phase Transitions and Electrocaloric Effect in Ca-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>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1364-1367.	3.0	2
25	Phase transitions and physical properties in Ca-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>Physica Scripta</i> , 2014, 89, 044012.	2.5	0
26	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. <i>Ferroelectrics</i> , 2013, 447, 1-8.	0.6	14
27	Dynamics of Phase Transition in 0.4NBT-0.4ST-0.2PT Solid Solution. <i>Integrated Ferroelectrics</i> , 2012, 134, 81-87.	0.7	4
28	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
29	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. , 2012, , .		0
30	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> , 2012, 428, 20-26.	0.6	8
31	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
32	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
33	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
34	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
35	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
36	High Electrocaloric Effect in Ferroelectrics. <i>Ferroelectrics</i> , 2010, 400, 336-343.	0.6	20

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37	Phase Transitions in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-SrTiO}_3\text{-PbTiO}_3$ Solid Solutions. <i>Ferroelectrics</i> , 2010, 405, 57-61.	0.6	11
38	PHASE TRANSITIONS IN $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-SrTiO}_3\text{-PbTiO}_3$ SOLID SOLUTIONS. <i>Integrated Ferroelectrics</i> , 2009, 108, 125-133.	0.7	16
39	Phase transitions in modified $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-SrTiO}_3$ solid solutions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2737-2739.	0.8	8
40	PHASE TRANSITIONS IN THE $\text{PLZT}_{x/85/15}$ SOLID SOLUTIONS. <i>Integrated Ferroelectrics</i> , 2008, 102, 44-51.	0.7	3
41	The Nature of Dielectric Dispersion in PLZT Ceramics. <i>Ferroelectrics</i> , 2002, 272, 231-236.	0.6	0
42	Phase transitions of $\text{Pb}_{0.99}\text{Nb}_{0.02}(\text{Zr}_{0.75}\text{Sn}_{0.20}\text{Ti}_{0.05})\text{O}_3$ ceramics. <i>Ferroelectrics</i> , 2001, 258, 61-70.	0.6	8
43	Evolution of dielectric permittivity under applied field in $\text{PLZT}_{8.3/70/30}$ ceramics. <i>Ferroelectrics</i> , 2000, 240, 1465-1471.	0.6	1
44	Evolution of dielectric properties in transparent $\text{PLZT}_{8.3/70/30}$ ceramics at the diffused phase transition. <i>Ferroelectrics</i> , 1999, 234, 263-272.	0.6	1
45	Effects of structure ordering in complex ferroelectric perovskites. <i>Ferroelectrics</i> , 1999, 223, 107-111.	0.6	1
46	Phase transitions and properties of perovskite ferroelectric ceramics and films for certain applications. <i>Ferroelectrics</i> , 1999, 226, 217-241.	0.6	15
47	Effects of structure ordering, structure defects and external conditions on properties of complex ferroelectric perovskites. <i>Ferroelectrics</i> , 1998, 217, 307-317.	0.6	16
48	Radiation effects in transparent ferroelectric ceramics. , 1997, , .		2
49	Phase State and Structure of Ferroelectric Ceramics under Irradiation. <i>Key Engineering Materials</i> , 1997, 132-136, 1096-1099.	0.4	12
50	Radiation effects on lead-containing perovskite ceramics. <i>Ferroelectrics</i> , 1996, 183, 301-310.	0.6	20
51	Relation between deformation and polarization in the region of diffused phase transition of $\text{plzt}_{8/65/35}$ . <i>Ferroelectrics</i> , 1995, 173, 45-51.	0.6	2
52	Radiation damage of PLZT and PSN ceramics. <i>Ferroelectrics</i> , 1994, 153, 309-314.	0.6	7
53	Ultrasonic study of normal-incommensurate-commensurate phase transitions in $[\text{N}(\text{CH}_3)_4]_2\text{MnCl}_4$ . <i>Physical Review B</i> , 1994, 49, 6515-6521.	3.2	14
54	Nature of phase transitions in lead-containing perovskites with regard to specific applications. <i>Ferroelectrics</i> , 1994, 158, 363-368.	0.6	1

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55	Structure and superconductivity of $\text{YBa}_{2-x}\text{Cu}_{3-x}\text{O}_{7-x}$ - $\text{BaTiO}_3$ composites. <i>Ferroelectrics</i> , 1992, 131, 375-378.	0.6	4
56	Dielectric polarization in PLZT $\text{X}/65/35$ and $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ at the diffuse phase transition. <i>Ferroelectrics</i> , 1992, 131, 183-188.	0.6	2
57	Composites of Ferroelectric and Superconductive Ceramics: Synthesis and Diagnostics of Basic Properties. <i>Materials Science Forum</i> , 1991, 62-64, 269-270.	0.3	0
58	X-ray studies of electrocaloric lead-scandium tantalate ordered solid solutions. <i>Ferroelectrics</i> , 1989, 90, 165-172.	0.6	31
59	High electrocaloric effect ferroelectric ceramics. <i>Ferroelectrics</i> , 1989, 94, 305-305.	0.6	5
60	Dielectric memory effects in ferroelectric ceramics of PLZT and PMN. <i>Ferroelectrics</i> , 1988, 81, 317-321.	0.6	7
61	The electrocaloric effect in $\text{Pb}(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramic. <i>Physica Status Solidi A</i> , 1986, 94, 523-527.	1.7	16
62	Electrocaloric effect in PLZT ceramics. <i>Ferroelectrics</i> , 1986, 69, 125-129.	0.6	19
63	Methods for studying ferroelectrics (bulk samples and films) in the microwave range. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1981, 24, 753-765.	0.0	0
64	Dielectric relaxation and structure change at the ferroelectric phase transition in single crystals $\text{BaTiO}_3$ and $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . <i>Crystal Research and Technology: Journal of Experimental and Industrial Crystallography</i> , 1980, 15, K99.	0.3	4
65	Modified lead containing perovskite ceramics for electrooptic, electrocaloric, pyroelectric and electrostrictive applications. , 0, , .		0
66	Radiation effects on optical and dielectric properties of PLZT and PSN ceramics. , 0, , .		0
67	Properties of lead containing perovskites oriented for application in electronics and electrooptics. , 0, , .		1