

Lyudmila Kokhanchik

List of Publications by Year in descending order

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55
papers

460
citations

759233

12
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794594

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56
all docs

56
docs citations

56
times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanning electron microscopic investigations of peculiarities of the BaTiO ₃ ferroelectric domain contrast. <i>Physica Status Solidi A</i> , 1983, 78, 229-236.	1.7	46
2	Voltage contrast of ferroelectric domains of lithium niobate in SEM. <i>Physica Status Solidi A</i> , 1984, 86, 133-141.	1.7	35
3	Periodic domain structures formed under electron-beam irradiation in LiNbO ₃ plates and Ti:LiNbO ₃ planar waveguides of the Y cut. <i>Physics of the Solid State</i> , 2010, 52, 1722-1730.	0.6	33
4	Domain inversion in LiNbO ₃ and Zn-doped LiNbO ₃ crystals by the electron-beam irradiation of the nonpolar Y-surface. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 367-373.	2.2	25
5	Domain formation on the nonpolar lithium niobate surfaces under electron-beam irradiation: A review. <i>Journal of Advanced Dielectrics</i> , 2018, 08, 1830001.	2.4	23
6	The use of surface charging in the SEM for lithium niobate domain structure investigation. <i>Micron</i> , 2009, 40, 41-45.	2.2	22
7	Microdomain Patterns Recorded by an Electron Beam in He-Implanted Optical Waveguides on X-Cut LiNbO ₃ Crystals. <i>Journal of Lightwave Technology</i> , 2015, 33, 4761-4766.	4.6	20
8	Kinetics of dislocation recovery in copper. <i>Physica Status Solidi A</i> , 1974, 22, 185-194.	1.7	18
9	Ferroelectric domains in near-stoichiometric LiNbO ₃ by e-beam polarization reversal. <i>Phase Transitions</i> , 2011, 84, 797-803.	1.3	15
10	Recording of domains by an electron beam on the surface of +Z cuts of lithium niobate. <i>Physics of the Solid State</i> , 2013, 55, 540-546.	0.6	14
11	Characterization of electron-beam recorded microdomain patterns on the nonpolar surface of LiNbO ₃ crystal by nondestructive methods. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	13
12	Investigations of domain contrast in Pb ₅ Ge ₃ O ₁₁ with a scanning electron microscope. <i>Ferroelectrics</i> , 1986, 70, 15-26.	0.6	12
13	Characteristics of microdomains and microdomain patterns recorded by electron beam irradiation on Y-cut LiNbO ₃ crystals. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	12
14	Electron beam domain writing in reduced LiNbO ₃ crystals. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	12
15	Scanning electron microscopy investigation of lithium niobate properties. <i>Ferroelectrics</i> , 1992, 126, 353-358.	0.6	11
16	Electron beam recording of microdomains on the nonpolar LiNbO ₃ crystal surface at different SEM accelerating voltages. <i>Physics of the Solid State</i> , 2015, 57, 949-956.	0.6	11
17	Formation of regular domain structures and peculiarities of switching of the spontaneous polarization in lithium tantalate crystals during discrete electron irradiation. <i>Physics of the Solid State</i> , 2010, 52, 306-310.	0.6	10
18	The Possibility of Planar Periodic Domain Structures Engineering on the Y-Cut Surfaces of LiTaO ₃ Crystals by E-Beam Point Writing. <i>Ferroelectrics</i> , 2008, 373, 69-76.	0.6	9

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19	E-Beam Recording of Domain Structures on the Nonpolar Surface of LiNbO ₃ Crystals at Different SEM Voltages and Their Investigation by PFM and SHG Microscopy. <i>Ferroelectrics</i> , 2015, 480, 49-57.	0.6	9
20	Micro-scale domain structure formation by e-beam point writing on the Y cut surfaces of LiTaO ₃ crystals. <i>Proceedings of SPIE</i> , 2008, , .	0.8	8
21	Domain engineering in LiNbO ₃ crystals by e-beam and features of spatial distribution of electric field: Experiment and computer simulation. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	8
22	Investigation of Periodic Domain Structures in Lithium Niobate Crystals. <i>Ferroelectrics</i> , 2007, 352, 134-142.	0.6	7
23	Surface periodic domain structures for waveguide applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1076-1084.	3.0	7
24	Electron-beam domain patterning on the nonpolar surfaces of lithium niobate crystals. <i>Ferroelectrics</i> , 2016, 500, 129-140.	0.6	7
25	Study of the specific features of lithium niobate crystals near the domain walls. <i>Physics of the Solid State</i> , 2009, 51, 1500-1502.	0.6	6
26	Creation of domains by direct electron beam writing in magnesium-doped LiNbO ₃ and LiNbO ₃ :Fe single crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 370, 107-113.	1.4	6
27	Potential Images of Ferroelectric Domain Structures Formed by Electron Beam in Lithium Niobate Crystals. <i>Physics of the Solid State</i> , 2018, 60, 1778-1785.	0.6	6
28	Pyroelectric properties of LiNbO ₃ crystals following. <i>Ferroelectrics, Letters Section</i> , 1995, 20, 11-18.	1.0	5
29	Regular domain structures fabricated by an electron beam in stoichiometric LiNbO ₃ crystals. <i>Physics of the Solid State</i> , 2012, 54, 962-964.	0.6	4
30	Nonlinear-optical characterization of planar domain patterns written in LiNbO ₃ by electron-beam irradiation. <i>Optical Materials</i> , 2018, 75, 325-330.	3.6	4
31	Micromechanics of dynamic deformation and failure. <i>Journal of Applied Mechanics and Technical Physics</i> , 1987, 28, 441-447.	0.5	3
32	Influence of the Electron Irradiation in the SEM on Terbium Molybdate Surface Potential State. <i>Ferroelectrics</i> , 2004, 303, 47-49.	0.6	3
33	Planar Domain Gratings Fabricated by a Set of Local E-Beam Irradiations on the Y-Cuts of LiNbO ₃ and in the Planar Waveguide Ti:LiNbO ₃ . <i>Ferroelectrics</i> , 2010, 411, 71-78.	0.6	3
34	Periodic domain structures in stoichiometric lithium niobate: Formation by electron beam. <i>Journal of Surface Investigation</i> , 2013, 7, 825-832.	0.5	3
35	Conversion of spectral characteristics of laser radiation in periodic domain structures written by the electron-beam method in planar waveguides formed by Ti diffusion in Y-oriented LiNbO ₃ . <i>Quantum Electronics</i> , 2018, 48, 761-766.	1.0	3
36	Electron-Beam Domain Patterning in Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ Crystals. <i>Coatings</i> , 2020, 10, 299.	2.6	3

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37	Deepening of domains at e-beam writing on the \hat{z} surface of lithium niobate. Journal Physics D: Applied Physics, 2022, 55, 195302.	2.8	3
38	The pulse electron emission and local changes of pyroelectric potential in lithium niobate crystals. Ferroelectrics, 1999, 225, 41-48.	0.6	2
39	Charge contrast of ferroelectric domain walls in ferroelastic terbium molybdate. Journal of Surface Investigation, 2007, 1, 402-405.	0.5	2
40	X-Ray Diffraction on a LiNbO ₃ Crystal with a Short Period Regular Domain Structure. Ferroelectrics, 2009, 391, 122-127.	0.6	2
41	Domain Structure Fabrication in Z and Y-cuts of LiTaO ₃ Crystals by Point e-beam Writing in the SEM. Ferroelectrics, 2009, 390, 87-98.	0.6	2
42	Optical Investigations of Periodical Domain Structures Created by E-Beam Irradiation in Y-Cut LiNbO ₃ . Ferroelectrics, 2010, 399, 1-6.	0.6	2
43	Effect of titanium in LiNbO ₃ on domain growth during e-beam writing. Materials Research Express, 2019, 6, 106205.	1.6	2
44	Microdomain Engineering in Waveguide and Layered Structures Based on Ferroelectrics for Applications in Photonic Elements (Brief Review). JETP Letters, 2021, 113, 769-779.	1.4	2
45	The darkening effects of secondary electron image due to superconductivity in Y _{1-x} BA _{2-x} CU _{3-x} O _{7-x} films. Ferroelectrics, 1992, 128, 243-248.	0.6	1
46	The scanning electron microscopy investigation of LiTaO ₃ thin films on silicon substrates. Microelectronic Engineering, 1995, 29, 305-308.	2.4	1
47	Influence of a subsurface layer on surface pyroelectric potential formation in lithium niobate. Ferroelectrics, 1997, 201, 175-183.	0.6	1
48	Effect of ECR Plasma Treatment on Lithium Niobate Surface State. Ferroelectrics, 2004, 300, 147-150.	0.6	1
49	Periodic domain structures obtained by growth of LiNbO ₃ crystals doped with gadolinium. Journal of Surface Investigation, 2010, 4, 740-746.	0.5	1
50	Investigation of Periodic Domain Structures in LiNbO ₃ :Gd Single Crystals. Ferroelectrics, 2010, 398, 98-107.	0.6	1
51	Domain formation in heavily doped LiNbO ₃ :Mg crystals exposed to an electron beam. Inorganic Materials, 2015, 51, 607-612.	0.8	1
52	Formation and scanning electron microscopy investigation of LiNbO ₃ films on silicon substrates. Integrated Ferroelectrics, 1995, 8, 261-269.	0.7	0
53	Influence of the Electron Irradiation on Ferroelectric Domain and Domain Boundary Potential States in Ferroelastic Crystal Tb ₂ (MoO ₄) ₃ . Ferroelectrics, 2007, 359, 61-69.	0.6	0
54	Characterization of periodic domain structures in lithium niobate crystals by scanning electron microscopy and X-ray diffraction analysis. Journal of Surface Investigation, 2008, 2, 546-552.	0.5	0

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55	Planar domain structures formed by electron-beam poling in Y- and X-cut LiNbO ₃ and waveguides Zn:LiNbO ₃ , 2010, .		0