

# Katalin Polgár

## List of Publications by Year in descending order

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44  
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304743

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44  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Recombination luminescence of Cu and/or Ag doped lithium tetraborate single crystals. Journal of Luminescence, 2016, 177, 9-16.	3.1	20
2	Growth, defect structure, and THz application of stoichiometric lithium niobate. Applied Physics Reviews, 2015, 2, 040601.	11.3	91
3	High temperature top seeded solution growth of stoichiometric lithium niobate LiNbO <sub>3</sub> (sLN) with planar interface. Journal of Crystal Growth, 2012, 360, 181-184.	1.5	5
4	Thermal kinetics of OH <sup>•</sup> ions in LiNbO <sub>3</sub> :Mg crystals above the photorefractive threshold. Applied Physics Letters, 2010, 96, 191907.	3.3	5
5	Influence of Mg doping on the behaviour of polaronic light-induced absorption in LiNbO <sub>3</sub> . Physica Status Solidi - Rapid Research Letters, 2008, 2, 284-286.	2.4	25
6	The effect of Mg doping on the Raman spectra of LiNbO <sub>3</sub> crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 847-850.	0.8	11
7	Raman and infrared spectroscopic characterization of LiNbO <sub>3</sub> crystals grown from alkali metal oxide solvents. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1313-1316.	0.8	13
8	EPR of Cu <sup>2+</sup> in lithium tetraborate single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1276-1279.	0.8	11
9	Multiplicity of europium centers in doped stoichiometric crystals of lithium niobate. Technical Physics Letters, 2007, 33, 337-339.	0.7	6
10	The effect of stoichiometry and Mg doping on the Raman spectra of LiNbO <sub>3</sub> :Mg crystals. Applied Physics B: Lasers and Optics, 2007, 87, 317-322.	2.2	28
11	Alkali metal oxide solvents in the growth of stoichiometric LiNbO <sub>3</sub> single crystal. Journal of Crystal Growth, 2006, 286, 334-337.	1.5	8
12	Threshold concentration of MgO in near-stoichiometric LiNbO <sub>3</sub> crystals. Journal of Crystal Growth, 2005, 284, 149-155.	1.5	59
13	Bipolarons localised by Ti dopants in reduced LiNbO <sub>3</sub> crystals double-doped by Ti and Mg. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 132-135.	0.8	2
14	UV and IR absorption studies in LiNbO <sub>3</sub> :Mg crystals below and above the photorefractive threshold. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 171-174.	0.8	30
15	Ternary system Li <sub>2</sub> O-K <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> . Journal of Alloys and Compounds, 2005, 386, 238-245.	5.5	13
16	Ternary system Li <sub>2</sub> O-K <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> . Journal of Alloys and Compounds, 2005, 386, 246-252.	5.5	10
17	Temperature dependence of the absorption and refraction of Mg-doped congruent and stoichiometric LiNbO <sub>3</sub> in the THz range. Journal of Applied Physics, 2005, 97, 123505.	2.5	196
18	Nonlinear refraction and absorption of Mg doped stoichiometric and congruent LiNbO <sub>3</sub> . Journal of Applied Physics, 2004, 95, 902-908.	2.5	58

#	ARTICLE	IF	CITATIONS
19	Gap levels of Ti 3+ on Nb or Li sites in LiNbO <sub>3</sub> :(Mg):Ti crystals and their effect on charge transfer processes. Applied Physics B: Lasers and Optics, 2004, 78, 607-614.	2.2	12
20	Phase relations in the growth of stoichiometric lithium niobate. Physica Status Solidi A, 2004, 201, 284-288.	1.7	7
21	Ferroelectric domain imaging by defect-luminescence microscopy. Journal of Applied Physics, 2003, 93, 2295-2297.	2.5	44
22	Activation Energy of Proton Migration in Mn- and Fe-Doped Lithium Niobate Obtained by Holographic Methods. Radiation Effects and Defects in Solids, 2003, 158, 173-179.	1.2	1
23	Rearrangement of Rare Earth Defects Under Domain Inversion in LiNbO <sub>3</sub> . Radiation Effects and Defects in Solids, 2003, 158, 247-250.	1.2	6
24	Measurement of laser-induced refractive index changes of Mg-doped congruent and stoichiometric LiNbO <sub>3</sub> . Applied Physics Letters, 2002, 80, 2245-2247.	3.3	29
25	Crystal growth and stoichiometry of LiNbO <sub>3</sub> prepared by the flux method. Optical Materials, 2002, 19, 7-11.	3.6	31
26	Transient absorption and luminescence of LiNbO <sub>3</sub> and KNbO <sub>3</sub> . Integrated Ferroelectrics, 2001, 35, 137-149.	0.7	22
27	Relaxation of electronic excitations in LiNbO <sub>3</sub> crystals. Ferroelectrics, 2001, 257, 281-292.	0.6	6
28	Induced optical absorption and ITS relaxation in LiNbO <sub>3</sub> . Radiation Effects and Defects in Solids, 1999, 150, 193-198.	1.2	7
29	Stark effect on f <sup>2</sup> Spectra of LiNbO <sub>3</sub> : Er <sup>3+</sup> , Mg crystals. Radiation Effects and Defects in Solids, 1999, 150, 287-291.	1.2	3
30	Ti <sup>3+</sup> on Nb site: A paramagnetic Jahn-Teller center in vacuum-reduced LiNbO <sub>3</sub> :Mg:Ti single crystals. Physical Review B, 1998, 58, 8329-8337.	3.2	25
31	Composition dependence of the ultraviolet absorption edge in lithium niobate. Applied Physics Letters, 1997, 70, 2801-2803.	3.3	162
32	Growth of stoichiometric LiNbO <sub>3</sub> single crystals by top seeded solution growth method. Journal of Crystal Growth, 1997, 177, 211-216.	1.5	205
33	Waveguides in LTB (Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ) by He <sup>+</sup> implantation. Physica Status Solidi A, 1996, 153, 553-557.	1.7	10
34	On the lattice site of trivalent dopants and the structure of Mg <sup>2+</sup> -OH-M <sup>3+</sup> defects in LiNbO <sub>3</sub> :Mg crystals. Journal of Physics Condensed Matter, 1993, 5, 781-794.	1.8	57
35	Optically induced gratings in Fe <sup>2+</sup> and Mn <sup>2+</sup> doped Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> single crystals. Journal of Applied Physics, 1993, 73, 2114-2121.	2.5	19
36	Infrared absorption study of the OH vibrational band in LiNbO <sub>3</sub> crystals. Journal of Physics and Chemistry of Solids, 1991, 52, 797-803.	4.0	119

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37	Endor for characterizing transition metal centres in LiNbO <sub>3</sub> . Radiation Effects and Defects in Solids, 1991, 119-121, 583-588.	1.2	6
38	Electron spin resonance and electron-nuclear double-resonance investigation of a new Cr <sup>3+</sup> -defect on an Nb site in LiNbO <sub>3</sub> :Mg:Cr. Journal of Physics Condensed Matter, 1991, 3, 1901-1908.	1.8	68
39	Diffusion of Hydrogen Isotopes in Pure and Mg-Doped LiNbO <sub>3</sub> Crystals. Physica Status Solidi A, 1990, 120, 97-104.	1.7	24
40	Mn <sup>2+</sup> -defects in LiNbO <sub>3</sub> : an electron nuclear double resonance (ENDOR) investigation of the Mn <sup>2+</sup> -site and the local disorder. Journal of Physics Condensed Matter, 1990, 2, 6603-6618.	1.8	35
41	An infrared absorption band caused by OH <sup>•</sup> ions in a LiNbO <sub>3</sub> :Mg, Cr crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 133, 433-437.	2.1	34
42	Density Measurements on LiNbO <sub>3</sub> Crystals Confirming Nb Substitution for Li. Crystal Research and Technology, 1986, 21, K101-K104.	1.3	28
43	Spectroscopic and electrical conductivity investigation of Mg doped LiNbO <sub>3</sub> single crystals. Solid State Communications, 1986, 59, 375-379.	1.9	77
44	A simple method to determine the real composition of LiNbO <sub>3</sub> crystals. Crystal Research and Technology, 1984, 19, 1659-1661.	1.3	104