

Franciszek Firszt

List of Publications by Year in descending order

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66
papers

468
citations

759233

12
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all docs

68
docs citations

68
times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition dependence of the unit cell dimensions and the energy gap in Zn _{1-x} Mg _x Se crystals. <i>Semiconductor Science and Technology</i> , 1995, 10, 197-200.	2.0	46
2	Nonlinear optical properties of Zn _{1-α} Mg _{α} Se and Cd _{1-α} Mg _{α} Se crystals. <i>Optical Materials</i> , 2009, 31, 518-522.	3.6	30
3	On the optimization of experimental parameters in photopyroelectric investigation of thermal diffusivity of solids. <i>Thermochimica Acta</i> , 2015, 614, 232-238.	2.7	26
4	Lattice parameter, microhardness and energy gap of bulk Zn _{1-α} Be _{α} Se alloys. <i>Solid State Communications</i> , 1998, 107, 735-740.	1.9	25
5	Luminescence of Zn _{1-α} Mg _{α} Se, Zn _{1-α} Mg _{α} Se:Al and Zn _{1-α} Mg _{α} Se:I mixed crystals grown by Bridgman method. <i>Journal of Crystal Growth</i> , 1996, 159, 167-170.	1.5	24
6	Luminescence properties of Mg _x Zn _{1-x} Se crystals. <i>Semiconductor Science and Technology</i> , 1993, 8, 712-717.	2.0	23
7	Characterization of defects in (ZnMg)Se compounds by positron annihilation and photoluminescence. <i>Journal of Applied Physics</i> , 2000, 88, 1325-1332.	2.5	19
8	High pressure x-ray diffraction and extended x-ray absorption fine structure studies on ternary alloy Zn _{1-α} xBe _{α} Se. <i>Journal of Applied Physics</i> , 2010, 108, 083533.	2.5	19
9	Thermal Transport Properties of Cd _{1-x} Mg _x Se Mixed Crystals Measured by Means of the Photopyroelectric Method. <i>International Journal of Thermophysics</i> , 2010, 31, 187-198.	2.1	16
10	Percolation-type multi-phonon pattern of Zn(Se,S): Backward/forward Raman scattering and ab initio calculations. <i>Journal of Alloys and Compounds</i> , 2015, 644, 704-720.	5.5	16
11	Thermal Diffusivity, Effusivity, and Conductivity of CdMnTe Mixed Crystals. <i>International Journal of Thermophysics</i> , 2014, 35, 2140-2149.	2.1	15
12	Radiative recombination processes in layers. <i>Semiconductor Science and Technology</i> , 1997, 12, 272-279.	2.0	14
13	Defect characterization of ZnBeSe solid solutions by means of positron annihilation and photoluminescence techniques. <i>Journal of Applied Physics</i> , 2003, 94, 1647-1653.	2.5	11
14	Optical characterization of Cd _{1-α} x α ^{β} Be _{α} Zn _{β} Se mixed crystals. <i>Journal of Applied Physics</i> , 2007, 101, 103539.	2.5	11
15	Formation of 4H and 8H polytypes in bulk Zn _{1-α} xMg _{α} Se crystals. <i>Journal of Alloys and Compounds</i> , 1999, 286, 224-235.	5.5	9
16	Characterisation of Cd _{1-α} Mg _{α} Se solid solutions by spectroscopic ellipsometry. <i>Vacuum</i> , 2001, 63, 233-239.	3.5	9
17	Non-random Be-to-Zn substitution in ZnBeSe alloys: Raman scattering and ab initio calculations. <i>European Physical Journal B</i> , 2010, 73, 461-469.	1.5	9
18	Structural, Optical and Thermal Properties of Bulk Zn _{1-α} xBe _{α} Te Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 57-62.	1.5	8

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19	Piezoelectric and pyroelectric study of Zn _{1-x} Be _x MnySe mixed crystals. Review of Scientific Instruments, 2003, 74, 566-568.	1.3	8
20	High-pressure structural and optical properties of wurtzite-type Zn _{1-y} Mg _y Se. Journal of Alloys and Compounds, 2004, 371, 168-171.	5.5	8
21	Photoacoustic investigation of Cd _{1-x} MnxTe mixed crystals. Review of Scientific Instruments, 2003, 74, 572-574.	1.3	7
22	Localization of excitons in Zn _{1-y} Mg _y Se and Cd _{1-y} Mg _y Se crystals. Journal of Alloys and Compounds, 2004, 371, 107-110.	5.5	7
23	Piezoelectric photoacoustic spectroscopy of surface states of Zn _{0.81} Be _{0.04} Mg _{0.15} Se mixed crystals. Surface Science, 2009, 603, 131-137.	1.9	6
24	Optical spectra of Zn _{1-x} Be _x Te mixed crystals determined by IR and VIS-UV ellipsometry and photoluminescence measurements. Thin Solid Films, 2011, 519, 2795-2800.	1.8	6
25	Photothermal Investigation of Surface Defects of Pure Semiconducting A ₂ B ₆ Materials. International Journal of Thermophysics, 2012, 33, 733-740.	2.1	6
26	Pressure-induced phonon freezing in the ZnSeS II-VI mixed crystal: phonon polaritons and <i>ab initio</i> calculations. Journal of Physics Condensed Matter, 2016, 28, 205401.	1.8	6
27	Influence of Surface Preparation for Different Groups of A ₂ B ₆ Mixed Crystals. International Journal of Thermophysics, 2010, 31, 208-217.	2.1	5
28	Optical and photothermal investigations of Zn _x Be _x MnySe solid solutions. Physica Status Solidi (B): Basic Research, 2010, 247, 1402-1404.	1.5	5
29	Near-forward/high-pressure-backward Raman study of Zn _{1-x} Be _x Se ($x \sim 0.5$) - evidence for percolation behavior of the long (Zn-Se) bond. Journal of Raman Spectroscopy, 2016, 47, 357-367.	2.5	5
30	Multi-phonon (percolation) behavior and local clustering of Cd _x Zn _{1-x} Se-cubic mixed crystals ($x \sim 0.3$): A Raman <i>ab initio</i> study. Journal of Applied Physics, 2019, 126, .	2.5	5
31	Electroluminescence of ZnSe-ZnTe diodes obtained by liquid-phase epitaxy. Journal of Luminescence, 1975, 11, 75-81.	3.1	4
32	Coexistence of 2H and 4H polytypes in Zn _{1-x} MgxSe observed by photo- and cathodoluminescence. Solid State Communications, 1998, 108, 367-370.	1.9	4
33	Photoacoustic investigations of beryllium containing wide gap II-VI mixed crystals. Microelectronics Journal, 2000, 31, 821-824.	2.0	4
34	Temperature dependence of the band edge excitonic transitions of wurtzite-type Cd _{0.925} Be _{0.075} Se mixed crystal. Solid State Communications, 2006, 137, 82-86.	1.9	4
35	Investigation of degradation in beryllium chalcogenide II-VI semiconductors. Applied Physics Letters, 2006, 89, 121918.	3.3	4
36	Contactless electroreflectance and photoluminescence characterization of Zn _{0.68} Be _{0.06} Mg _{0.26} Se crystalline alloys. Journal of Alloys and Compounds, 2010, 491, 472-476.	5.5	4

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37	Investigation of carrier scattering mechanisms in n-Cd $_{1-x}$ MgxSe single crystals using Fourier Transform Infrared Spectroscopy. Infrared Physics and Technology, 2014, 64, 115-118.	2.9	4
38	Atomic Structure Imaging in ZnSe and Mixed Zn $_{0.74}$ Mn $_{0.2}$ Be $_{0.06}$ Se Crystals with X-ray Fluorescence Holography. Zeitschrift Fur Physikalische Chemie, 2016, 230, 471-487.	2.8	4
39	Optical characterization of a Cd $_{0.85}$ Mg $_{0.15}$ Se mixed crystal. Journal of Physics Condensed Matter, 2007, 19, 266002.	1.8	3
40	Growth and properties of Zn $_{1-x}$ Be $_x$ Mny Se crystals. Physica Status Solidi (B): Basic Research, 2007, 244, 1669-1674.	1.5	3
41	Near-forward Raman selection rules for the phonon-polariton in (Zn, Be)Se alloys. Journal of Applied Physics, 2016, 120, .	2.5	3
42	Electroluminescence in In-ZnSe: Cu-ZnSe(s)-Au structures. Journal of Luminescence, 1983, 28, 203-215.	3.1	2
43	A study of deep centers in Zn $_{1-x}$ MgxSe crystals using deep-level transient spectroscopy. Journal of Applied Physics, 1998, 84, 5345-5347.	2.5	2
44	Growth and characterization of Zn $_{1-x}$ Be $_x$ Mg $_y$ Se solid solutions with luminescence and photoacoustic methods. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1463-1465.	0.8	2
45	Localization of Excited Carriers in Zn $_{1-x}$ MgxSe and Zn $_{1-x-y}$ MgxCdySe Solid Solutions. Journal of the Korean Physical Society, 2008, 53, 13-18.	0.7	2
46	<title>Luminescence in Mg $_{1-x}$ Zn $_x$ Se crystals</title>. , 1993, , .		1
47	<title>Photoluminescence, cathodoluminescence and Raman investigations of Zn $_{1-x}$ MgxSe mixed crystals</title>. , 1997, 3178, 213.		1
48	<title>Elastic and elasto-optic properties of Zn $_{1-x}$ Be $_x$ mixed crystals by Brillouin scattering method</title>. , 2001, , .		1
49	Magnetization and EPR Studies in Zn $_{1-x-y}$ Be $_x$ MnySe Crystals. Physica Status Solidi (B): Basic Research, 2002, 229, 701-705.	1.5	1
50	Photoacoustic Studies of Cd $_{1-x}$ Be $_x$ Se Mixed Crystals. International Journal of Thermophysics, 2005, 26, 285-293.	2.1	1
51	Optical characterization of bulk Zn $_{1-x}$ Be $_x$ Te crystals. Journal of Physics Condensed Matter, 2008, 20, 255227.	1.8	1
52	The Phonon Percolation Scheme for Alloys: Extension to the Entire Lattice Dynamics and Pressure Dependence. Japanese Journal of Applied Physics, 2011, 50, 05FE02.	1.5	1
53	Correlation between optical and thermal properties in ZnMgSe solid solutions. Materials Chemistry and Physics, 2017, 186, 541-545.	4.0	1
54	Photoluminescence of ZnBeMnSe solid solutions. Journal of Luminescence, 2017, 184, 29-37.	3.1	1

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55	Optical Characterization of Zn _{0.95} -xBe _{0.05} MnxSe Mixed Crystals. Journal of the Korean Physical Society, 2008, 53, 77-82.	0.7	1
56	<title>Characterization of Zn _{1-x} MgxSe mixed crystals by photoacoustic method</title>. , 1997, , .		0
57	<title>Growth and characterization of Zn _{1-x} MgxSe mixed crystals</title>. , 1997, 3178, 205.		0
58	Photoluminescence and structural properties of selected wide-gap II-VI solid solutions. , 1999, , .		0
59	Auger electron spectroscopy and photoluminescence investigations of Cd ¹⁺ Mg Se crystals. Vacuum, 2001, 63, 211-218.	3.5	0
60	Low-Temperature Anti-Stokes Luminescence in Zn _{1-x} MgxSe Mixed Crystals. Journal of Russian Laser Research, 2003, 24, 14-26.	0.6	0
61	Growth, luminescence and photoacoustic characterization of Zn _{1-x} Be _x Mn _y Se crystals for optoelectronic applications. , 2008, , .		0
62	Characterization of Zn _{0.95} Be _x Mn _{0.05} Se mixed crystals by photoluminescence and contactless electroreflectance. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1460-1462.	0.8	0
63	Raman scattering characterization of Zn _{1-x} Mg _y Be _x Se mixed crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1752-1755.	0.8	0
64	Optical characterization of Zn _{0.35} Cd _{0.44} Mg _{0.21} Se crystalline alloy by polarization-dependent contactless electroreflectance measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1756-1759.	0.8	0
65	Photoluminescence and Electromodulation Spectroscopy Characterization of Zn _{0.93} Mg _{0.07} Se and Zn _{0.81} Be _{0.04} Mg _{0.15} Se Mixed Crystals. Journal of the Korean Physical Society, 2008, 53, 71-76.	0.7	0
66	The Phonon Percolation Scheme for Alloys: Extension to the Entire Lattice Dynamics and Pressure Dependence. Japanese Journal of Applied Physics, 2011, 50, 05FE02.	1.5	0