

Franciszek Firszt

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Multi-phonon (percolation) behavior and local clustering of Cd _x Zn _{1-x} Se-cubic mixed crystals (x=0.3): A Raman study. Journal of Applied Physics, 2019, 126, .	2.5	5
2	Correlation between optical and thermal properties in ZnMgSe solid solutions. Materials Chemistry and Physics, 2017, 186, 541-545.	4.0	1
3	Photoluminescence of ZnBeMnSe solid solutions. Journal of Luminescence, 2017, 184, 29-37.	3.1	1
4	Pressure-induced phonon freezing in the ZnSe _{1-x} VI mixed crystal: phonon polaritons and ab initio calculations. Journal of Physics Condensed Matter, 2016, 28, 205401.	1.8	6
5	Near-forward/high-pressure-backward Raman study of Zn _{1-x} Be _x Se (x=0.5) - evidence for percolation behavior of the long (Zn-Se) bond. Journal of Raman Spectroscopy, 2016, 47, 357-367.	2.5	5
6	Near-forward Raman selection rules for the phonon-polariton in (Zn, Be)Se alloys. Journal of Applied Physics, 2016, 120, .	2.5	3
7	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
8	Percolation-type multi-phonon pattern of Zn(Se,S): Backward/forward Raman scattering and ab initio calculations. Journal of Alloys and Compounds, 2015, 644, 704-720.	5.5	16
9	On the optimization of experimental parameters in photopyroelectric investigation of thermal diffusivity of solids. Thermochimica Acta, 2015, 614, 232-238.	2.7	26
10	Thermal Diffusivity, Effusivity, and Conductivity of CdMnTe Mixed Crystals. International Journal of Thermophysics, 2014, 35, 2140-2149.	2.1	15
11	Investigation of carrier scattering mechanisms in n-Cd _{1-x} Mg _x Se single crystals using Fourier Transform Infrared Spectroscopy. Infrared Physics and Technology, 2014, 64, 115-118.	2.9	4
12	Raman scattering characterization of Zn _{1-x} Mg _x Be _x Se mixed crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1752-1755.	0.8	0
13	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
14	Photothermal Investigation of Surface Defects of Pure Semiconducting A ₂ B ₆ Materials. International Journal of Thermophysics, 2012, 33, 733-740.	2.1	6
15	Optical spectra of Zn _{1-x} Be _x Te mixed crystals determined by IR-VIS-UV ellipsometry and photoluminescence measurements. Thin Solid Films, 2011, 519, 2795-2800.	1.8	6
16	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
17	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
18	Non-random Be-to-Zn substitution in ZnBeSe alloys: Raman scattering and ab initio calculations. European Physical Journal B, 2010, 73, 461-469.	1.5	9

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19	Thermal Transport Properties of Cd _{1-x} Mg _x Se Mixed Crystals Measured by Means of the Photopyroelectric Method. International Journal of Thermophysics, 2010, 31, 187-198.	2.1	16
20	Influence of Surface Preparation for Different Groups of A2B6 Mixed Crystals. International Journal of Thermophysics, 2010, 31, 208-217.	2.1	5
21	Optical and photothermal investigations of Zn _{1-x} Be _x Mn _y Se solid solutions. Physica Status Solidi (B): Basic Research, 2010, 247, 1402-1404.	1.5	5
22	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
23	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
24	High pressure x-ray diffraction and extended x-ray absorption fine structure studies on ternary alloy Zn _{1-x} BexSe. Journal of Applied Physics, 2010, 108, 083533.	2.5	19
25	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
26	Nonlinear optical properties of Zn _{1-x} MgxSe and Cd _{1-x} MgxSe crystals. Optical Materials, 2009, 31, 518-522.	3.6	30
27	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
28	Optical characterization of bulk Zn _{1-x} Be _x Te crystals. Journal of Physics Condensed Matter, 2008, 20, 255227.	1.8	1
29	Growth, luminescence and photoacoustic characterization of Zn _{1-x} Be _x Mn _y Se crystals for optoelectronic applications. , 2008, , .		0
30	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
31	Optical Characterization of Zn _{0.95-x} Be _{0.05} MnxSe Mixed Crystals. Journal of the Korean Physical Society, 2008, 53, 77-82.	0.7	1
32	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
33	Optical characterization of Cd _{1-x} Be _x ZnySe mixed crystals. Journal of Applied Physics, 2007, 101, 103539.	2.5	11
34	Optical characterization of a Cd _{0.85} Mg _{0.15} Se mixed crystal. Journal of Physics Condensed Matter, 2007, 19, 266002.	1.8	3
35	Growth and properties of Zn _{1-x} Be _x MnySe crystals. Physica Status Solidi (B): Basic Research, 2007, 244, 1669-1674.	1.5	3
36	Temperature dependence of the band edge excitonic transitions of a wurtzite-type Cd _{0.925} Be _{0.075} Se mixed crystal. Solid State Communications, 2006, 137, 82-86.	1.9	4

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37	Investigation of degradation in beryllium chalcogenide II-VI semiconductors. Applied Physics Letters, 2006, 89, 121918.	3.3	4
38	Photoacoustic Studies of Cd _{1-x} Be _x Se Mixed Crystals. International Journal of Thermophysics, 2005, 26, 285-293.	2.1	1
39	Localization of excitons in Zn _{1-x} Mg _x Se and Cd _{1-x} Mg _x Se crystals. Journal of Alloys and Compounds, 2004, 371, 107-110.	5.5	7
40	High-pressure structural and optical properties of wurtzite-type Zn _{1-x} Mg _x Se. Journal of Alloys and Compounds, 2004, 371, 168-171.	5.5	8
41	Low-Temperature Anti-Stokes Luminescence in Zn _{1-x} Mg _x Se Mixed Crystals. Journal of Russian Laser Research, 2003, 24, 14-26.	0.6	0
42	Defect characterization of ZnBeSe solid solutions by means of positron annihilation and photoluminescence techniques. Journal of Applied Physics, 2003, 94, 1647-1653.	2.5	11
43	Piezoelectric and pyroelectric study of Zn _{1-x} yBe _x MnySe mixed crystals. Review of Scientific Instruments, 2003, 74, 566-568.	1.3	8
44	Photoacoustic investigation of Cd _{1-x} Mn _x Te mixed crystals. Review of Scientific Instruments, 2003, 74, 572-574.	1.3	7
45	Structural, Optical and Thermal Properties of Bulk Zn _{1-x} Be _x Te Crystals. Physica Status Solidi (B): Basic Research, 2002, 229, 57-62.	1.5	8
46	Magnetization and EPR Studies in Zn _{1-x} yBe _x MnySe Crystals. Physica Status Solidi (B): Basic Research, 2002, 229, 701-705.	1.5	1
47	Elastic and elasto-optic properties of Zn _{1-x} Be _x Se mixed crystals by Brillouin scattering method. , 2001, , .		1
48	Auger electron spectroscopy and photoluminescence investigations of Cd _{1-x} Mg _x Se crystals. Vacuum, 2001, 63, 211-218.	3.5	0
49	Characterisation of Cd _{1-x} Mg _x Se solid solutions by spectroscopic ellipsometry. Vacuum, 2001, 63, 233-239.	3.5	9
50	Photoacoustic investigations of beryllium containing wide gap II-VI mixed crystals. Microelectronics Journal, 2000, 31, 821-824.	2.0	4
51	Characterization of defects in (ZnMg)Se compounds by positron annihilation and photoluminescence. Journal of Applied Physics, 2000, 88, 1325-1332.	2.5	19
52	Formation of 4H and 8H polytypes in bulk Zn _{1-x} Mg _x Se crystals. Journal of Alloys and Compounds, 1999, 286, 224-235.	5.5	9
53	Photoluminescence and structural properties of selected wide-gap II-VI solid solutions. , 1999, , .		0
54	Lattice parameter, microhardness and energy gap of bulk Zn _{1-x} Be _x Se alloys. Solid State Communications, 1998, 107, 735-740.	1.9	25

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55	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
56	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
57	Radiative recombination processes in layers. Semiconductor Science and Technology, 1997, 12, 272-279.	2.0	14
58	<title>Photoluminescence, cathodoluminescence and Raman investigations of Zn _{1-x} MgxSe mixed crystals</title>., 1997, 3178, 213.		1
59	<title>Characterization of Zn _{1-x} MgxSe mixed crystals by photoacoustic method</title>., 1997, , .		0
60	<title>Growth and characterization of Zn _{1-x} MgxSe mixed crystals</title>., 1997, 3178, 205.		0
61	Luminescence of Zn _{1-x} Mg _x Se, Zn _{1-x} Mg _x Se:Al and Zn _{1-x} Mg _x Se:I mixed crystals grown by Bridgman method. Journal of Crystal Growth, 1996, 159, 167-170.	1.5	24
62	Composition dependence of the unit cell dimensions and the energy gap in Zn _{1-x} MgxSe crystals. Semiconductor Science and Technology, 1995, 10, 197-200.	2.0	46
63	Luminescence properties of Mg _x Zn _{1-x} Se crystals. Semiconductor Science and Technology, 1993, 8, 712-717.	2.0	23
64	<title>Luminescence in Mg _x Zn _{1-x} Se crystals</title>., 1993, , .		1
65	Electroluminescence in In-ZnSe: Cu-ZnSe(s)-Au structures. Journal of Luminescence, 1983, 28, 203-215.	3.1	2
66	Electroluminescence of ZnSe-ZnTe diodes obtained by liquid-phase epitaxy. Journal of Luminescence, 1975, 11, 75-81.	3.1	4