Bohdan Andriyevsky

List of Publications by Year
in descending order

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85 papers	544 citations	687363 13 h-index	752698 20 g-index
85 all docs	85 docs citations	85 times ranked	606 citing authors

#	Article	IF	Citations
1	Growth, crystal structure and theoretical studies of energy and optical properties of CdTe1â^'xSex thin films. Applied Nanoscience (Switzerland), 2022, 12, 335-342.	3.1	9
2	Highly anisotropic layered crystal AgBiP2Se6: Growth, electronic band-structure and optical properties. Materials Chemistry and Physics, 2022, 277, 125556.	4.0	7
3	Influence of pressure on the electronic energy structure of cadmium sulphide crystal with zincblende structure. Journal of Physical Studies, 2022, 26, .	0.5	0
4	Electronic structure and elastic properties of Cd16Se15Te solid state solution: first principles study. Condensed Matter Physics, 2021, 24, 23702.	0.7	2
5	Electronic band structure of cubic solid-state CdTe_{1ï¿½x}Se_x solutions. Ukrainian Journal of Physical Optics, 2021, 22, 101-109.	13.0	5
6	Growth, crystal structure and optical properties of Al-doped ZnO thin films. Molecular Crystals and Liquid Crystals, 2021, 717, 72-79.	0.9	2
7	Optical properties of CdTe thin film obtained by high-frequency magnetron sputtering method. Journal of the Belarusian State University Physics, 2021, , 88-95.	0.2	0
8	Ab initio Calculations of Electronic Band Structure, Optical and Elastic Parameters of Solid-state CdTe-CdSe Solutions. , 2021, , .		0
9	Electron, phonon and thermoelectric properties of Cu7PS6 crystal calculated at DFT level. Scientific Reports, 2021, 11, 19065.	3.3	6
10	Photoluminescence of Tl4HgI6 single crystals. Low Temperature Physics, 2020, 46, 1039-1043.	0.6	1
11	Elastic properties of CdTe1â€“xSex(x = 1/16) solid solution: First principles study. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2020, 23, 355-360.	1.0	3
12	Electronic Bands and Dielectric Functions of In0.5Tl0.5I Solid State Solution with Structural Defects. Journal of Electronic Materials, 2019, 48, 5586-5594.	2.2	12
13	Systematics of the allotrope formation in elemental gallium films. Materials Research Express, 2019, 6, 116401.	1.6	9
14	Polymorphism in carbohydrate self-assembly at surfaces: STM imaging and theoretical modelling of trehalose on Cu(100). RSC Advances, 2019, 9, 35813-35819.	3.6	15
15	Manifestations of structural phase transition in ab initio molecular dynamics of (C3N2H5)2SbF5 crystal. Materials Chemistry and Physics, 2018, 205, 452-461.	4.0	1
16	PbGa2GeS6 crystal as a novel nonlinear optical material: Band structure aspects. Journal of Alloys and Compounds, 2018, 740, 294-304.	5.5	27
17	Anisotropy of the Refractive Indices and Thermal Expansion Coefficients of Rb2ZnCl4 Crystals. Crystallography Reports, 2018, 63, 1167-1172.	0.6	0
18	Specific Features of Content Dependences for Energy Gap in In_xTl_{1-x}I Solid State Crystalline Alloys. Acta Physica Polonica A, 2018, 133, 68-75.	0.5	16

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19	Parametrized optical functions of strontium barium niobate crystals in the vacuum ultraviolet spectral range. Journal of Applied Physics, 2017, 122, 115110.	2.5	2
20	Refractometry of Rb2ZnCl4 crystals under uniaxial pressure. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.6	0
21	Ab initio molecular dynamics study of lithium diffusion in tetragonal Li7La3Zr2O12. Materials Chemistry and Physics, 2017, 185, 210-217.	4.0	13
22	Optical properties of epitaxial Na0.5Bi0.5TiO3 lead-free piezoelectric thin films: Ellipsometric and theoretical studies. Applied Surface Science, 2017, 421, 367-372.	6.1	10
23	Thermal conductivity of silicon doped by phosphorus: ab initio study. Materials Science-Poland, 2017, 35, 717-724.	1.0	2
24	Ab initio molecular dynamics calculations of heat conductivity for silicon related materials. Przeglad Elektrotechniczny, 2017, 1, 63-65.	0.2	0
25	The effect of impurity on temperature variations in the refractive indices and thickness of TGS crystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 120, 952-957.	0.6	0
26	Band structure and birefringence of LiRbSO4 crystals. Optics and Spectroscopy (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	6
27	Electronic band structure and related properties of Rb 2 ZnCl 4 crystals at different hydrostatic pressures. Computational Materials Science, 2016, 111, 257-262.	3.0	2
28	Thermal conductivity of silicon: theoretical first principles study. Przeglad Elektrotechniczny, 2016, 1, 97-99.	0.2	0
29	Electronic band structure and optical properties of ferroelectric TGS, TGSe and TGFB crystals. Materials Chemistry and Physics, 2015, 162, 787-793.	4.0	4
30	Influence of uniaxial stresses on electronic and optical properties of Î²-K2SO4 crystal. Materials Science-Poland, 2015, 33, 11-17.	1.0	2
31	Comparative molecular dynamics studies of Si, GaN and SiC thermal conductivity. Przeglad Elektrotechniczny, 2015, 1, 7-10.	0.2	1
32	The parameter of the optical indicatrix of guanidinium aluminum-sulfate hexahydrate crystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 249-253.	0.6	1
33	Electronic and transport properties of LiCoO₂. Physical Chemistry Chemical Physics, 2014, 16, 23412-23420.	2.8	32
34	Ultraviolet vacuum ultraviolet optical functions for SrTiO3 and NdGaO3 crystals determined by spectroscopic ellipsometry. Journal of Applied Physics, 2013, 114, 043513.	2.5	4
35	Specific features of Yb3+ ions in electronic band energy structure and optical functions of RbNd(WO4)2 crystals: Synchrotron ellipsometry measurements and DFT simulations. Journal of Alloys and Compounds, 2013, 577, 237-246.	5.5	0
36	DFT-based ab initio study of dielectric and optical properties of bulk Li2B3O4F3 and Li2B6O9F2. Journal of Physics and Chemistry of Solids, 2013, 74, 616-623.	4.0	23

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37	Structural phase transitions in ferroelectric crystals and thin films studied by VUV spectroscopic ellipsometry with synchrotron radiation. Phase Transitions, 2013, 86, 932-940.	1.3	2
38	DFT-based ab initio study of electronic band structure and elastic properties of Li2B3O4F3 and Li2B6O9F2 crystals. Journal of Physics and Chemistry of Solids, 2013, 74, 624-629.	4.0	5
39	Electronic band structure and influence of uniaxial stresses on the properties of K2SO4 crystal: ab initio study. Computational Materials Science, 2013, 79, 442-447.	3.0	13
40	Spectral ellipsometry study in the range of electronic excitations and band structure of [(CH3)2CHNH3]4Cd3Cl10 crystals. Materials Chemistry and Physics, 2013, 139, 770-774.	4.0	2
41	Ellipsometric study of near band gap optical properties of SrxBa1â^'xNb2O6 crystals. Optical Materials, 2013, 35, 887-892.	3.6	11
42	Electronic and Optical Properties of Strontium Barium Niobate Single Crystals. Ferroelectrics, 2012, 426, 194-205.	0.6	14
43	DFT-based ab initio study of band structure of CsH5(PO4)2 crystals. Solid State Ionics, 2012, 207, 14-20.	2.7	6
44	Electronic Properties of KDP and DKDP Crystals:Ab-InitioCalculations and Spectral Ellipsometry Experiment. Ferroelectrics, 2011, 417, 20-24.	0.6	4
45	DFT-based ab initio study of structural and electronic properties of lithium fluorooxoborate LiB<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>F and experimentally observed second harmonic gene	3.2	35
46	Band Structure and Optical Characteristics of TDA Crystals. Ferroelectrics, 2011, 417, 9-13.	0.6	0
47	Spectral Ellipsometry Study of SBN Single Crystals in Visible and Ultraviolet Region. Ferroelectrics, 2011, 417, 14-19.	0.6	6
48	Ab-initio study of phase transitions in NaNO2 crystals based on band structure calculations. Computational Materials Science, 2011, 50, 1169-1174.	3.0	3
49	First-principles simulations of the electronic density of states for superionic Ag2CdI4 crystals. Solid State Ionics, 2011, 188, 31-35.	2.7	3
50	First principles study of structural stability, electronic and related properties of (NH4)2SO4. Journal of Physics and Chemistry of Solids, 2010, 71, 357-363.	4.0	9
51	Band structure and optical functions of K2ZnCl4 crystals in ferroelectric phase. Materials Chemistry and Physics, 2010, 124, 845-850.	4.0	3
52	Detection of Yb impurities in the VUV spectral range of NdGaO3 crystals. Optics Communications, 2010, 283, 3998-4003.	2.1	3
53	Intermolecular interaction in plant oils from refractive and density measurements. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 932-937.	0.6	2
54	Ellipsometric study of electronic excitations in triglycine sulphate and triglycine selenate crystals. Physica Status Solidi (B): Basic Research, 2009, 246, 2337-2340.	1.5	3

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55	Dielectric properties of (NH₄)₂SO₄ crystals in the range of electronic excitations. Journal of Synchrotron Radiation, 2009, 16, 260-263.	2.4	3
56	Electronic structure and related properties of the ferroelectric crystal triglycine sulfate. Journal of Physics and Chemistry of Solids, 2009, 70, 84-91.	4.0	16
57	Simulation of elasto optical properties of K2SO4 crystals. Journal of Physics and Chemistry of Solids, 2009, 70, 1109-1112.	4.0	15
58	Effect of U on the Electronic Properties of Neodymium Gallate (NdGaO₃): Theoretical and Experimental Studies. Journal of Physical Chemistry B, 2009, 113, 15237-15242.	2.6	53
59	Manifestation of phase transformations in optical spectra of Na_{0.5}Bi_{0.5}TiO₃crystals between 25Â°C and 350Â°C. Phase Transitions, 2009, 82, 567-575.	1.3	13
60	Optical spectra of triglycine sulfate crystals in the range of 7â€“33 eV and its changes at phase transition. Phase Transitions, 2008, 81, 949-961.	1.3	1
61	Band structure and optical spectra of ferroelectric triglycine sulphate. Phase Transitions, 2007, 80, 31-37.	1.3	6
62	Band structure and optical spectra of RbNH4SO4 crystals. Journal of Physics and Chemistry of Solids, 2007, 68, 1892-1896.	4.0	11
63	Band structure and UV optical spectra of TGS crystals in the range of 4â€“10eV. Physica B: Condensed Matter, 2006, 373, 328-333.	2.7	19
64	Band structure and optical properties of diglycine nitrate crystal. Physica B: Condensed Matter, 2005, 364, 78-84.	2.7	9
65	Band structure and optical electron spectra of (TrMA)CoCl3Â·2H2O crystal. Physica B: Condensed Matter, 2005, 367, 216-222.	2.7	2
66	Refractive and Dilative Ferroelectric Anomalies of DGN Crystals. Ferroelectrics, 2004, 302, 39-41.	0.6	4
67	TSDC and dielectric properties of Nd-doped KGd(WO4)2 crystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 106, 246-250.	3.5	5
68	Spectra of linear fundamental dichroism of syngenite crystals reconstructed from the birefringence dispersion in the range of transparency. Optics Communications, 2003, 219, 295-299.	2.1	0
69	Calculation of refractive indices for the (NH2CH2COOH)2 Â· HNO3 crystal. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 92-95.	0.6	4
70	Temperature Anomalies of Anisotropy Degree of Crystal's Characteristics at Phase Transitions. Ferroelectrics, 2002, 270, 327-332.	0.6	0
71	Dilatative and refractive properties of diglycine nitrate crystals in the range of phase transition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 95, 14-18.	3.5	9
72	Dilatometric and Optical Properties of (CH3)2NH2Ga(SO4)2 ï¿½ 6H2O Crystals in Paraelectric and Ferroelectric Phases. Physica Status Solidi (B): Basic Research, 2001, 223, 729-736.	1.5	3

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73	Simultaneous Pyroelectric and Dilatometric Studies of Phase Transitions in Triglycine Sulphate and Glycine Posphite Crystals. Acta Physica Polonica A, 2001, 99, 593-600.	0.5	7
74	Title is missing!. Ukrainian Journal of Physical Optics, 2001, 2, 211-216.	13.0	2
75	Title is missing!. Ukrainian Journal of Physical Optics, 2001, 2, 150-153.	13.0	0
76	Peculiarities in Thermal Linear Expansion and Refractive Indices of (NH2CH2COOH) ï¿½ H3PO3 Single Crystals in the Region of Phase Transition. Physica Status Solidi A, 2000, 177, 575-582.	1.7	12
77	Manifestation of Incommensurate Phase in the Dielectric Properties of NH4HSeO4 Crystals. Physica Status Solidi (B): Basic Research, 1999, 214, 471-478.	1.5	1
78	Optical and Dilatometric Properties of (CH3)2NH2Al(SO4)2Â·6H2O Crystals in Paraelectric and Ferroelectric Phases. Acta Physica Polonica A, 1999, 96, 409-416.	0.5	3
79	Optical characteristics of (NH4)2SbF5crystal at different phases. Ferroelectrics, 1997, 192, 227-233.	0.6	1
80	New resources of the optical refraction method for investigation of phase transition in dielectrics: K2SO4and LiKSO4crystals. Ferroelectrics, 1997, 192, 209-219.	0.6	1
81	Optical and Dilatometric Manifestations of Phase Transitions in K2SeO4Crystal. Acta Physica Polonica A, 1997, 92, 557-562.	0.5	0
82	Calculation of optical spectra in the fundamental absorption range for crystals with the inversion of birefringence sign. Journal of Physical Studies, 1996, 1, 110-117.	0.5	1
83	Reconstruction of fundamental absorption spectra of material by its refractive index spectrum in transparency region. , 1995, , .		2
84	Interrelation between Ï€- and Ïƒ-electrons of valence band in carbon condensats. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 211-213.	1.7	0
85	Pressure effect on the electronic spectra of CdSe and CdS. Molecular Crystals and Liquid Crystals, 0, , 1-7.	0.9	0