

Bohdan Andriyevsky

List of Publications by Year in descending order

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85
papers

544
citations

687363

13
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752698

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85
all docs

85
docs citations

85
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of U on the Electronic Properties of Neodymium Gallate (NdGaO_3): Theoretical and Experimental Studies. Journal of Physical Chemistry B, 2009, 113, 15237-15242. DFT-based ab initio study of structural and electronic properties of lithium fluorooxoborate LiB_6O_9	2.6	53
2	Electronic and transport properties of LiCoO_2 . Physical Chemistry Chemical Physics, 2014, 16, 23412-23420.	3.2	35
3	PbGa ₂ GeS ₆ crystal as a novel nonlinear optical material: Band structure aspects. Journal of Alloys and Compounds, 2018, 740, 294-304.	2.8	32
4	DFT-based ab initio study of dielectric and optical properties of bulk $\text{Li}_2\text{B}_3\text{O}_4\text{F}_3$ and $\text{Li}_2\text{B}_6\text{O}_9\text{F}_2$. Journal of Physics and Chemistry of Solids, 2013, 74, 616-623.	5.5	27
5	Band structure and UV optical spectra of TGS crystals in the range of 4eV . Physica B: Condensed Matter, 2006, 373, 328-333.	4.0	23
6	Electronic structure and related properties of the ferroelectric crystal triglycine sulfate. Journal of Physics and Chemistry of Solids, 2009, 70, 84-91.	2.7	19
7	Specific Features of Content Dependences for Energy Gap in $\text{In}_x\text{Tl}_{1-x}$ Solid State Crystalline Alloys. Acta Physica Polonica A, 2018, 133, 68-75.	4.0	16
8	Simulation of elasto optical properties of K_2SO_4 crystals. Journal of Physics and Chemistry of Solids, 2009, 70, 1109-1112.	0.5	16
9	Polymorphism in carbohydrate self-assembly at surfaces: STM imaging and theoretical modelling of trehalose on $\text{Cu}(100)$. RSC Advances, 2019, 9, 35813-35819.	4.0	15
10	Electronic and Optical Properties of Strontium Barium Niobate Single Crystals. Ferroelectrics, 2012, 426, 194-205.	3.6	15
11	Manifestation of phase transformations in optical spectra of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ crystals between 25°C and 350°C . Phase Transitions, 2009, 82, 567-575.	0.6	14
12	Electronic band structure and influence of uniaxial stresses on the properties of K_2SO_4 crystal: ab initio study. Computational Materials Science, 2013, 79, 442-447.	1.3	13
13	Ab initio molecular dynamics study of lithium diffusion in tetragonal $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$. Materials Chemistry and Physics, 2017, 185, 210-217.	3.0	13
14	Peculiarities in Thermal Linear Expansion and Refractive Indices of $(\text{NH}_2\text{CH}_2\text{COOH})_{1/2}\text{H}_3\text{PO}_3$ Single Crystals in the Region of Phase Transition. Physica Status Solidi A, 2000, 177, 575-582.	4.0	13
15	Electronic Bands and Dielectric Functions of $\text{In}_{0.5}\text{Tl}_{0.5}$ Solid State Solution with Structural Defects. Journal of Electronic Materials, 2019, 48, 5586-5594.	1.7	12
16	Band structure and optical spectra of RbNH_4SO_4 crystals. Journal of Physics and Chemistry of Solids, 2007, 68, 1892-1896.	2.2	12
17	Ellipsometric study of near band gap optical properties of $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ crystals. Optical Materials, 2013, 35, 887-892.	4.0	11
18		3.6	11

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19	Optical properties of epitaxial Na _{0.5} Bi _{0.5} TiO ₃ lead-free piezoelectric thin films: Ellipsometric and theoretical studies. <i>Applied Surface Science</i> , 2017, 421, 367-372.	6.1	10
20	Dilatative and refractive properties of diglycine nitrate crystals in the range of phase transition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 95, 14-18.	3.5	9
21	Band structure and optical properties of diglycine nitrate crystal. <i>Physica B: Condensed Matter</i> , 2005, 364, 78-84.	2.7	9
22	First principles study of structural stability, electronic and related properties of (NH ₄) ₂ SO ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 357-363.	4.0	9
23	Systematics of the allotrope formation in elemental gallium films. <i>Materials Research Express</i> , 2019, 6, 116401.	1.6	9
24	Growth, crystal structure and theoretical studies of energy and optical properties of CdTe _{1-x} Se _x thin films. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 335-342.	3.1	9
25	Simultaneous Pyroelectric and Dilatometric Studies of Phase Transitions in Triglycine Sulphate and Glycine Phosphite Crystals. <i>Acta Physica Polonica A</i> , 2001, 99, 593-600.	0.5	7
26	Highly anisotropic layered crystal AgBi ₂ Se ₆ : Growth, electronic band-structure and optical properties. <i>Materials Chemistry and Physics</i> , 2022, 277, 125556.	4.0	7
27	Band structure and optical spectra of ferroelectric triglycine sulphate. <i>Phase Transitions</i> , 2007, 80, 31-37.	1.3	6
28	Spectral Ellipsometry Study of SBN Single Crystals in Visible and Ultraviolet Region. <i>Ferroelectrics</i> , 2011, 417, 14-19.	0.6	6
29	DFT-based ab initio study of band structure of CsH ₅ (PO ₄) ₂ crystals. <i>Solid State Ionics</i> , 2012, 207, 14-20.	2.7	6
30	Band structure and birefringence of LiRbSO ₄ crystals. <i>Optics and Spectroscopy (English Translation)</i> 10.1007/s10947-010-0000-0	0.6	6
31	Electron, phonon and thermoelectric properties of Cu ₇ PS ₆ crystal calculated at DFT level. <i>Scientific Reports</i> , 2021, 11, 19065.	3.3	6
32	TSDC and dielectric properties of Nd-doped KGd(WO ₄) ₂ crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 106, 246-250.	3.5	5
33	DFT-based ab initio study of electronic band structure and elastic properties of Li ₂ B ₃ O ₄ F ₃ and Li ₂ B ₆ O ₉ F ₂ crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 624-629.	4.0	5
34	Electronic band structure of cubic solid-state CdTe _{1-x/2} Se _x solutions. <i>Ukrainian Journal of Physical Optics</i> , 2021, 22, 101-109.	13.0	5
35	Calculation of refractive indices for the (NH ₂ CH ₂ COOH) ₂ · HNO ₃ crystal. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2003, 95, 92-95.	0.6	4
36	Refractive and Dilative Ferroelectric Anomalies of DGN Crystals. <i>Ferroelectrics</i> , 2004, 302, 39-41.	0.6	4

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37	Electronic Properties of KDP and DKDP Crystals: Ab-Initio Calculations and Spectral Ellipsometry Experiment. <i>Ferroelectrics</i> , 2011, 417, 20-24.	0.6	4
38	Ultraviolet vacuum ultraviolet optical functions for SrTiO ₃ and NdGaO ₃ crystals determined by spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2013, 114, 043513.	2.5	4
39	Electronic band structure and optical properties of ferroelectric TGS, TGSe and TGFB crystals. <i>Materials Chemistry and Physics</i> , 2015, 162, 787-793.	4.0	4
40	Dilatometric and Optical Properties of (CH ₃) ₂ NH ₂ Ga(SO ₄) ₂ · 1/2 6H ₂ O Crystals in Paraelectric and Ferroelectric Phases. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 223, 729-736.	1.5	3
41	Ellipsometric study of electronic excitations in triglycine sulphate and triglycine selenate crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2337-2340.	1.5	3
42	Dielectric properties of (NH ₄) ₂ SO ₄ crystals in the range of electronic excitations. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 260-263.	2.4	3
43	Band structure and optical functions of K ₂ ZnCl ₄ crystals in ferroelectric phase. <i>Materials Chemistry and Physics</i> , 2010, 124, 845-850.	4.0	3
44	Detection of Yb impurities in the VUV spectral range of NdGaO ₃ crystals. <i>Optics Communications</i> , 2010, 283, 3998-4003.	2.1	3
45	Ab-initio study of phase transitions in NaNO ₂ crystals based on band structure calculations. <i>Computational Materials Science</i> , 2011, 50, 1169-1174.	3.0	3
46	First-principles simulations of the electronic density of states for superionic Ag ₂ CdI ₄ crystals. <i>Solid State Ionics</i> , 2011, 188, 31-35.	2.7	3
47	Optical and Dilatometric Properties of (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ · 6H ₂ O Crystals in Paraelectric and Ferroelectric Phases. <i>Acta Physica Polonica A</i> , 1999, 96, 409-416.	0.5	3
48	Elastic properties of CdTe _{1-x} Se _x (x = 1/16) solid solution: First principles study. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2020, 23, 355-360.	1.0	3
49	Reconstruction of fundamental absorption spectra of material by its refractive index spectrum in transparency region. , 1995, , .		2
50	Band structure and optical electron spectra of (TrMA)CoCl ₃ · 2H ₂ O crystal. <i>Physica B: Condensed Matter</i> , 2005, 367, 216-222.	2.7	2
51	Intermolecular interaction in plant oils from refractive and density measurements. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010, 109, 932-937.	0.6	2
52	Structural phase transitions in ferroelectric crystals and thin films studied by VUV spectroscopic ellipsometry with synchrotron radiation. <i>Phase Transitions</i> , 2013, 86, 932-940.	1.3	2
53	Spectral ellipsometry study in the range of electronic excitations and band structure of [(CH ₃) ₂ CHNH ₃] ₄ Cd ₃ Cl ₁₀ crystals. <i>Materials Chemistry and Physics</i> , 2013, 139, 770-774.	4.0	2
54	Influence of uniaxial stresses on electronic and optical properties of K ₂ SO ₄ crystal. <i>Materials Science-Poland</i> , 2015, 33, 11-17.	1.0	2

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55	Electronic band structure and related properties of Rb ₂ ZnCl ₄ crystals at different hydrostatic pressures. <i>Computational Materials Science</i> , 2016, 111, 257-262.	3.0	2
56	Parametrized optical functions of strontium barium niobate crystals in the vacuum ultraviolet spectral range. <i>Journal of Applied Physics</i> , 2017, 122, 115110.	2.5	2
57	Electronic structure and elastic properties of Cd ₁₆ Se ₁₅ Te solid state solution: first principles study. <i>Condensed Matter Physics</i> , 2021, 24, 23702.	0.7	2
58	Growth, crystal structure and optical properties of Al-doped ZnO thin films. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 717, 72-79.	0.9	2
59	Thermal conductivity of silicon doped by phosphorus: ab initio study. <i>Materials Science-Poland</i> , 2017, 35, 717-724.	1.0	2
60	Title is missing!. <i>Ukrainian Journal of Physical Optics</i> , 2001, 2, 211-216.	13.0	2
61	Optical characteristics of (NH ₄) ₂ SbF ₅ crystal at different phases. <i>Ferroelectrics</i> , 1997, 192, 227-233.	0.6	1
62	New resources of the optical refraction method for investigation of phase transition in dielectrics: K ₂ SO ₄ and LiKSO ₄ crystals. <i>Ferroelectrics</i> , 1997, 192, 209-219.	0.6	1
63	Manifestation of Incommensurate Phase in the Dielectric Properties of NH ₄ HSeO ₄ Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 214, 471-478.	1.5	1
64	Optical spectra of triglycine sulfate crystals in the range of 7â€“33 eV and its changes at phase transition. <i>Phase Transitions</i> , 2008, 81, 949-961.	1.3	1
65	The parameter of the optical indicatrix of guanidinium aluminum-sulfate hexahydrate crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014, 116, 249-253.	0.6	1
66	Manifestations of structural phase transition in ab initio molecular dynamics of (C ₃ N ₂ H ₅) ₂ SbF ₅ crystal. <i>Materials Chemistry and Physics</i> , 2018, 205, 452-461.	4.0	1
67	Photoluminescence of Tl ₄ HgI ₆ single crystals. <i>Low Temperature Physics</i> , 2020, 46, 1039-1043.	0.6	1
68	Calculation of optical spectra in the fundamental absorption range for crystals with the inversion of birefringence sign. <i>Journal of Physical Studies</i> , 1996, 1, 110-117.	0.5	1
69	Comparative molecular dynamics studies of Si, GaN and SiC thermal conductivity. <i>Przegląd Elektrotechniczny</i> , 2015, 1, 7-10.	0.2	1
70	Interrelation between ĩ€- and ĩƒ-electrons of valence band in carbon condensats. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994, 68, 211-213.	1.7	0
71	Temperature Anomalies of Anisotropy Degree of Crystal's Characteristics at Phase Transitions. <i>Ferroelectrics</i> , 2002, 270, 327-332.	0.6	0
72	Spectra of linear fundamental dichroism of syngenite crystals reconstructed from the birefringence dispersion in the range of transparency. <i>Optics Communications</i> , 2003, 219, 295-299.	2.1	0

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73	Band Structure and Optical Characteristics of TDA Crystals. <i>Ferroelectrics</i> , 2011, 417, 9-13.	0.6	0
74	Specific features of Yb ³⁺ ions in electronic band energy structure and optical functions of RbNd(WO ₄) ₂ crystals: Synchrotron ellipsometry measurements and DFT simulations. <i>Journal of Alloys and Compounds</i> , 2013, 577, 237-246.	5.5	0
75	The effect of impurity on temperature variations in the refractive indices and thickness of TGS crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016, 120, 952-957.	0.6	0
76	Refractometry of Rb ₂ ZnCl ₄ crystals under uniaxial pressure. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.6	0
77	Anisotropy of the Refractive Indices and Thermal Expansion Coefficients of Rb ₂ ZnCl ₄ Crystals. <i>Crystallography Reports</i> , 2018, 63, 1167-1172.	0.6	0
78	Optical properties of CdTe thin film obtained by high-frequency magnetron sputtering method. <i>Journal of the Belarusian State University Physics</i> , 2021, , 88-95.	0.2	0
79	Ab initio Calculations of Electronic Band Structure, Optical and Elastic Parameters of Solid-state CdTe-CdSe Solutions. , 2021, , .		0
80	Title is missing!. <i>Ukrainian Journal of Physical Optics</i> , 2001, 2, 150-153.	13.0	0
81	Optical and Dilatometric Manifestations of Phase Transitions in K ₂ SeO ₄ Crystal. <i>Acta Physica Polonica A</i> , 1997, 92, 557-562.	0.5	0
82	Thermal conductivity of silicon: theoretical first principles study. <i>Przegląd Elektrotechniczny</i> , 2016, 1, 97-99.	0.2	0
83	Ab initio molecular dynamics calculations of heat conductivity for silicon related materials. <i>Przegląd Elektrotechniczny</i> , 2017, 1, 63-65.	0.2	0
84	Influence of pressure on the electronic energy structure of cadmium sulphide crystal with zincblende structure. <i>Journal of Physical Studies</i> , 2022, 26, .	0.5	0
85	Pressure effect on the electronic spectra of CdSe and CdS. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-7.	0.9	0