

Vasyl Stadnyk

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ionicity and birefringence of $\hat{1}\pm\text{-LiNH}_4\text{SO}_4$ crystals: ab initio DFT study, X-ray spectroscopy measurements. RSC Advances, 2017, 7, 6889-6901.	3.6	20
2	Ab initio calculations of the electronic structure and specific optical features of $\hat{1}^2\text{-LiNH}_4\text{SO}_4$ single crystals. Physica B: Condensed Matter, 2018, 528, 37-46.	2.7	20
3	Energy Band Structure and Optical Properties of LiNaSO ₄ Crystals. Optics and Spectroscopy (English) Tj ETQq1 1 0,784314 rgBT /Ove 0.6	0.6	16
4	Specific Features of Content Dependences for Energy Gap in $\text{In}_x\text{Ti}_{1-x}$ Solid State Crystalline Alloys. Acta Physica Polonica A, 2018, 133, 68-75.	0.5	16
5	Simulation of elasto optical properties of K ₂ SO ₄ crystals. Journal of Physics and Chemistry of Solids, 2009, 70, 1109-1112.	4.0	15
6	Relationships among optical and structural characteristics of ABSO ₄ crystals. Optical Materials, 2019, 95, 109221.	3.6	14
7	AgGaTe ₂ – The thermoelectric and solar cell material: Structure, electronic, optical, elastic and vibrational features. Infrared Physics and Technology, 2020, 111, 103476.	2.9	14
8	Electronic band structure and influence of uniaxial stresses on the properties of K ₂ SO ₄ crystal: ab initio study. Computational Materials Science, 2013, 79, 442-447.	3.0	13
9	On isotropic states in $\hat{1}\pm\text{-LiNH}_4\text{SO}_4$ crystals. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0,784314 rgBT /Ove 0.6	0.6	13
10	The baric changes of the refractive properties of K ₂ SO ₄ crystals. Condensed Matter Physics, 2007, 10, 45.	0.7	13
11	Energy band structure and refractive properties of LiRbSO ₄ crystals. Physics of the Solid State, 2006, 48, 1268-1272.	0.6	12
12	Birefringence properties of mechanically clamped K ₂ ZnCl ₄ crystals. Physics of the Solid State, 2011, 53, 131-137.	0.6	12
13	Structure, refractive and electronic properties of K ₂ SO ₄ :Cu ²⁺ (3%) crystals. Current Applied Physics, 2021, 21, 80-88.	2.4	12
14	Structure and optical anisotropy of K _{1.75} (NH ₄) _{0.25} SO ₄ solid solution. Ukrainian Journal of Physical Optics, 2017, 18, 187.	13.0	12
15	Band structure and optical spectra of RbNH ₄ SO ₄ crystals. Journal of Physics and Chemistry of Solids, 2007, 68, 1892-1896.	4.0	11
16	Energy band structure of LiNH ₄ SO ₄ crystals. Physics of the Solid State, 2015, 57, 53-58.	0.6	11
17	Piezo-optic properties of LiNH ₄ SO ₄ crystals. Crystallography Reports, 2015, 60, 388-392.	0.6	11
18	Significant photoinduced increment of reflectivity coefficient in LiNa ₅ Mo ₉ O ₃₀ . Current Applied Physics, 2017, 17, 1100-1107.	2.4	11

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19	Optical and electronic parameters of RbNH_4SO_4 crystals. <i>Ferroelectrics</i> , 1997, 192, 203-207.	0.6	10
20	Structure and refractive properties of LiNaSO_4 single crystals. <i>Ukrainian Journal of Physical Optics</i> , 2018, 19, 141-149.	13.0	10
21	Optical Properties of TGS Crystal with L-Valine Admixture. <i>Crystallography Reports</i> , 2010, 55, 995-999.	0.6	9
22	Photoelasticity of ammonium sulfate crystals. <i>Optical Materials</i> , 2019, 88, 723-728.	3.6	9
23	Temperature changes in refractive indices of uniaxially compressed K_2SO_4 crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2011, 110, 967-972.	0.6	8
24	The Influence of Partial Isomorphous Substitution on Electronic and Optical Parameters of ABSO_4 Group Crystals. <i>Acta Physica Polonica A</i> , 2018, 133, 819-823.	0.5	8
25	Temperature and baric changes in the refractive indices of LiKSO_4 crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2009, 106, 614-620.	0.6	7
26	TEMPERATURE AND SPECTRAL CHANGES IN THE REFRACTIVE INDICES OF LiKSO_4 CRYSTALS UNDER UNIAXIAL PRESSURES. <i>International Journal of Modern Physics B</i> , 2010, 24, 6219-6233.	2.0	7
27	Refractive Parameters and Band Energy Structure of K_2SO_4 Crystals Doped with Copper. <i>Journal of Applied Spectroscopy</i> , 2020, 87, 143-149.	0.7	7
28	The action of mechanical stress and other influences on birefringence inversion of LiKSO_4 and $(\text{NH}_4)_2\text{BeF}_4$ crystals. <i>Ferroelectrics</i> , 1997, 192, 235-241.	0.6	6
29	Refractometry of mechanically compressed RbKSO_4 crystals. <i>Crystallography Reports</i> , 2005, 50, 961-965.	0.6	6
30	The Refractive Properties of Uniaxially Stressed Doped TGS Crystals. <i>Ferroelectrics</i> , 2005, 317, 95-99.	0.6	6
31	Band structure and birefringence of LiRbSO_4 crystals. <i>Optics and Spectroscopy (English Translation)</i>	0.6	6
32	Baric changes in refractive indices of K_2ZnCl_4 crystals. <i>Optics and Spectroscopy (English Translation)</i>	0.6	5
33	Piezo-optic properties of K_2SO_4 crystals. <i>Crystallography Reports</i> , 2014, 59, 101-104.	0.6	5
34	Raman Scattering Spectra of LiNH_4SO_4 Crystals. <i>Journal of Applied Spectroscopy</i> , 2019, 85, 1022-1028.	0.7	5
35	Birefringence Properties of Uniaxially Compressed K_2SO_4 crystal. <i>Ukrainian Journal of Physics</i> , 2013, 58, 853-856.	0.2	5
36	LiNH_4SO_4 : A new crystal with an isotropic point. <i>Optics and Spectroscopy (English Translation of)</i>	0.6	4

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37	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
38	Specific features of refractive, piezo-optic and nonlinear optical dispersions of $\hat{\Gamma}^2$ -LiNH ₄ SO ₄ single crystals. <i>Physica B: Condensed Matter</i> , 2020, 580, 411919.	2.7	4
39	Refractive and Photoelastic Properties of K ₂ SO ₄ Crystals Doped with Copper. <i>Crystallography Reports</i> , 2020, 65, 961-967.	0.6	4
40	The Baric Changes of the Electron Polarisability of LiRbSO ₄ , LiKSO ₄ and (NH ₄) ₂ BeF ₄ Crystals. <i>Ferroelectrics</i> , 2005, 317, 63-68.	0.6	3
41	Refractive indices of (NH ₄) ₂ SO ₄ crystals under uniaxial pressure. <i>Crystallography Reports</i> , 2009, 54, 313-319.	0.6	3
42	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
43	Temperature behavior of thermal expansion and birefringence of In _x Tl _{1-x} -substitution solid solutions. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 123, 177-180.	0.6	3
44	Photoelastic Properties of Potassium Sulfate Crystals. <i>Physics of the Solid State</i> , 2019, 61, 2130-2133.	0.6	3
45	Calculation of the vibrational spectra of AgGaS ₂ crystal with chalcopyrite structure. <i>Journal of Physical Studies</i> , 2021, 25, .	0.5	3
46	Optical properties of mechanically compressed K ₂ SO ₄ crystals. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	2
47	Refractive indices of K ₂ ZnCl ₄ crystals in an incommensurate phase under uniaxial stresses. <i>Journal of Applied Spectroscopy</i> , 2010, 77, 648-653.	0.7	2
48	Pressure changes of isotropic points in potassium-sulfate crystals. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	2
49	Influence of uniaxial stresses on electronic and optical properties of $\hat{\Gamma}^2$ -K ₂ SO ₄ crystal. <i>Materials Science-Poland</i> , 2015, 33, 11-17.	1.0	2
50	Temperature-Pressure Phase Diagram for Rb ₂ ZnCl ₄ Crystals. <i>Journal of Applied Spectroscopy</i> , 2015, 82, 228-233.	0.7	2
51	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
52	The Effect of Uniaxial Pressures on the Infrared Spectra of LiNH ₄ SO ₄ Crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018, 124, 216-220.	0.6	2
53	Temperature Dependence of the Refractive Indices of Doped K ₂ SO ₄ Crystals. <i>Journal of Applied Spectroscopy</i> , 2021, 88, 831-837.	0.7	2
54	Thermal conductivity of silicon doped by phosphorus: ab initio study. <i>Materials Science-Poland</i> , 2017, 35, 717-724.	1.0	2

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55	Studies of ferroics in the electronic region of spectrum. Journal of Physical Studies, 2013, 17, .	0.5	2
56	The band energy structure of RbKSO ₄ crystals. Condensed Matter Physics, 2007, 10, 39.	0.7	2
57	New resources of the optical refraction method for investigation of phase transition in dielectrics: K ₂ SO ₄ and LiKSO ₄ crystals. Ferroelectrics, 1997, 192, 209-219.	0.6	1
58	Piezo-optic properties of TGS crystals doped with D-serine. Crystallography Reports, 2005, 50, 654-660.	0.6	1
59	Effect of uniaxial pressure on the infrared spectra of (NH ₄) ₂ SO ₄ crystals. Physics of the Solid State, 2007, 49, 696-700.	0.6	1
60	Birefringence of (NH ₄) ₂ SO ₄ crystals under the action of uniaxial pressures. Crystallography Reports, 2008, 53, 1039-1043.	0.6	1
61	Refractometry of mechanically compressed (NH ₄) ₂ SO ₄ crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 112, 702-706.	0.6	1
62	Piezo-optic properties of incommensurately modulated K ₂ ZnCl ₄ crystals. Crystallography Reports, 2011, 56, 84-88.	0.6	1
63	Effect of uniaxial stress on the birefringence of triglycine sulphate crystals doped with L threonine. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2012, 112, 702-706.	0.6	1
64	Refractometry of TGS crystals doped with L-threonine impurity under uniaxial pressure. Crystallography Reports, 2013, 58, 641-645.	0.6	1
65	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
66	Birefringence of mechanically stressed Rb ₂ ZnCl ₄ crystals. Crystallography Reports, 2015, 60, 929-934.	0.6	1
67	Band Structure and Birefringence of RbKSO ₄ Crystals. Journal of Applied Spectroscopy, 2015, 82, 755-759.	0.7	1
68	On Isotropic Points in Potassium Ammonium Sulphate Crystals. Crystallography Reports, 2019, 64, 787-792.	0.6	1
69	Pressure-Induced Changes in Parameters of the Indicatrix of Lithium Sodium Sulfate Crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2019, 127, 1023-1027.	0.6	1
70	On Isotropic Points in K ₂ SO ₄ Impurity Crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2019, 127, 1023-1027.	0.6	1
71	Phase Transition in Impurity Crystals of Potassium Sulfate: Refractive Parameters. , 2021, , .		1
72	Effect of Uniaxial Pressures on the Phase Transitions in (NH ₄) ₂ BeF ₄ Crystals. Crystallography Reports, 2000, 45, 968.	0.6	1

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73	Birefringence of Mechanically Stressed Potassium Tetrachlorine Zincate Crystals. Acta Physica Polonica A, 2010, 117, 133-135.	0.5	1
74	Refractometry of uniaxially loaded K_2SO_4 crystals. Journal of Physical Studies, 2014, 18, .	0.5	1
75	Absolute piezo-optic constants of Rochelle salt crystals. Crystallography Reports, 2000, 45, 833-838.	0.6	0
76	Calculation of the band structure and optical properties of guanidinium aluminum sulfate hexahydrate crystals. Physics of the Solid State, 2012, 54, 2066-2072.	0.6	0
77	Refractometry of uniaxially compressed triglycine sulphate crystals doped with L-valine. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2012, 112, 728-732.	0.6	0
78	On the spontaneous electro-optic effect in triglycine sulphate crystals with L-threonine admixture. Crystallography Reports, 2013, 58, 477-479.	0.6	0
79	Optical properties of D-serine doped TGS crystals for pyroelectric sensors. Materials Science-Poland, 2015, 33, 692-698.	1.0	0
80	Piezo-optical properties of incommensurately modulated Rb_2ZnCl_4 crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2015, 118, 547-551.	0.6	0
81	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
82	The Temperature Changes of Refractive Indices and Thickness of Doped Triglycine Sulfate Crystals. Journal of Applied Spectroscopy, 2016, 83, 472-477.	0.7	0
83	Refractometry of Rb_2ZnCl_4 crystals under uniaxial pressure. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314,rgBT /Oyerklock 10	0.6	0
84	Anisotropy of the Refractive Indices and Thermal Expansion Coefficients of Rb_2ZnCl_4 Crystals. Crystallography Reports, 2018, 63, 1167-1172.	0.6	0
85	Temperature and Pressure Changes of the Refractive Properties of $LiNH_4SO_4$ Crystal in β Modification. , 2019, , .		0
86	First Principles Calculation of Band Structure and Physical Properties of Ferroelectric $(NH_4)_2BeF_4$ Crystal. , 2021, , .		0
87	Title is missing!. Ukrainian Journal of Physical Optics, 2000, 1, 19-23.	13.0	0
88	Title is missing!. Ukrainian Journal of Physical Optics, 2003, 4, 173-176.	13.0	0
89	Influence of Uniaxial Pressure on the Refractive Properties of Rubidium Tetrachlorine Zincate Crystals. Acta Physica Polonica A, 2010, 117, 136-138.	0.5	0
90	About the spontaneous electrooptical effect of TGS crystals admixed with D-serine. Journal of Physical Studies, 2011, 15, .	0.5	0

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91	Refractive indices of uniaxially stressed Rb_2ZnCl_4 crystals at the phase transitions region. Journal of Physical Studies, 2015, 19, .	0.5	0
92	Thermal conductivity of silicon: theoretical first principles study. Przegląd Elektrotechniczny, 2016, 1, 97-99.	0.2	0
93	Ab initio molecular dynamics calculations of heat conductivity for silicon related materials. Przegląd Elektrotechniczny, 2017, 1, 63-65.	0.2	0