

Lyudmyla Piskach

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,539
citations

18
h-index

37
g-index

76
ext. papers

1,696
ext. citations

3.9
avg, IF

4.17
L-index

#	Paper	IF	Citations
72	Crystal growth, electronic and optical properties of $Tl_2CdSnSe_4$, a recently discovered prospective semiconductor for application in thin film solar cells and optoelectronics. <i>Optical Materials</i> , 2021 , 111, 110656	3.3	8
71	Quaternary $Tl_2CdGeSe_4$ selenide: Electronic structure and optical properties of a novel semiconductor for potential application in optoelectronics. <i>Journal of Solid State Chemistry</i> , 2021 , 302, 122453	3.3	1
70	Synthesis and structure of the new semiconductor compounds Tl_2BiIVX_4 ($BiIVd$, Hg; $BiIVSi$, Ge; $X=Be$, Te) and isothermal sections of the $Tl_2SeIVdSe-Ge(Sn)Se_2$ systems at 570 K. <i>Journal of Solid State Chemistry</i> , 2020 , 289, 121422	3.3	3
69	Raman and Infrared Phonon Spectra of Novel Nonlinear Optical Materials $PbGa_2GeS_6$ and $PbGa_2GeSe_6$: Experiment and Theory. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900700	1.3	1
68	New Quaternary Chalcogenides $Tl_2MIIMIV_3Se_8$ and $Tl_2MIIMIVX_4$. <i>Proceedings (mdpi)</i> , 2020 , 62, 3	0.3	
67	Photoconductivity of the Single Crystals $Pb_4Ga_4GeS_{12}$ and $Pb_4Ga_4GeSe_{12}$. <i>Proceedings (mdpi)</i> , 2020 , 62, 4	0.3	
66	Optical features of novel semiconducting crystals $Tl_{1-x}Ga_{1-x}Sn_xSe_2$ ($x=0.05; 0.1$). <i>Optik</i> , 2020 , 206, 163572.5		
65	New cation-disordered quaternary selenides $Tl_2Ga_2TtSe_6$ ($Tt=Ge, Sn$). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2020 , 75, 135-142	1	4
64	Preparation, electronic structure and piezooptical properties of solid solutions Tl_3PbBr_5I . <i>Materials Chemistry and Physics</i> , 2019 , 227, 255-264	4.4	1
63	Electronic structure and laser induced piezoelectricity of a new quaternary compound $TlInGe_3S_8$. <i>Materials Chemistry and Physics</i> , 2018 , 204, 336-344	4.4	12
62	Phase diagram and specific band gap features of novel $TlGaSe_2: Zn^{+2}(Cd^{+2}, Hg^{+2})$ crystals. <i>Journal of Alloys and Compounds</i> , 2018 , 768, 667-675	5.7	1
61	Study of optical absorption in $TlGaSe_2: Zn^{+2}$ single crystals. <i>Ukrainian Journal of Physical Optics</i> , 2018 , 19, 49-59	1.2	8
60	Thallium indium germanium sulphide ($TlInGe_2S_6$) as efficient material for nonlinear optical application. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1694-1702	5.7	10
59	Vibrational spectroscopy of orthorhombic Cu_2ZnSi_4 single crystal: Low-temperature polarized Raman scattering and first principle calculations. <i>Vibrational Spectroscopy</i> , 2017 , 89, 81-84	2.1	4
58	The Tl_2SBbSi_2 system and the crystal and electronic structure of quaternary chalcogenide Tl_2PbSi_4 . <i>Materials Chemistry and Physics</i> , 2017 , 195, 132-142	4.4	5
57	Synthesis, structural, X-ray photoelectron spectroscopy (XPS) studies and IR induced anisotropy of Tl_4HgI_6 single crystals. <i>Materials Chemistry and Physics</i> , 2017 , 187, 156-163	4.4	14
56	Synthesis, electronic structure and optical properties of $PbBr_{1.2}I_{0.8}$. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017 , 218, 13-20	1.7	2

55	Two-photon absorption of $Tl_{1-x}In_1-xSn_xSe_2$ nanocrystallites. <i>EPJ Web of Conferences</i> , 2017 , 133, 03001	0.3	
54	$Tl_2S_{1-x}Ga_2S_3_{1-x}Se_2$ glasses for optically operated laser third harmonic generation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 19003-19009	2.1	5
53	New quaternary thallium indium germanium selenide $TlInGe_2Se_6$: Crystal and electronic structure. <i>Journal of Solid State Chemistry</i> , 2017 , 254, 103-108	3.3	8
52	Novel Quaternary $TlGaSn_2Se_6$ Single Crystal as Promising Material for Laser Operated Infrared Nonlinear Optical Modulators. <i>Crystals</i> , 2017 , 7, 341	2.3	11
51	Phase equilibria in the $Tl_2S_{1-x}HgS_{1-x}Sn_2$ system at 520 K and crystal structure of Tl_2HgSnS_4 . <i>Chemistry of Metals and Alloys</i> , 2017 , 10, 136-141	1	5
50	Novel $AgGa_{0.95}In_{0.05}Ge_3Se_8$ crystalline alloys for light-operated piezoelectricity. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 408-413	5.7	11
49	Crystal structure and vibrational properties of $Cu_2ZnSiSe_4$ quaternary semiconductor. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1808-1815	1.3	17
48	Photoinduced Optical Properties Of $Tl_{1-x}In_1-xSixSe_2$ Single Crystals. <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 1051-1055		2
47	Laser-induced piezoelectricity in $AgGaGe_3SixSe_8$ chalcogenide single crystals. <i>EPJ Applied Physics</i> , 2015 , 70, 30501	1.1	12
46	Transport Phenomena In Single Crystals $Tl_{1-x}In_1-xGe_xSe_2$ ($x=0.1, 0.2$). <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 2025-2028		
45	Structural and optical features of novel $Tl_{1-x}In_1-xGe_xSe_2$ chalcogenide crystals. <i>Optical Materials</i> , 2014 , 37, 614-620	3.3	5
44	Electronic structure, optical properties, and lattice dynamics of orthorhombic Cu_2CdGeS_4 and Cu_2CdSiS_4 semiconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	28
43	Structural and optical properties of novel optoelectronic $Tl_{1-x}In_1-xSixSe_2$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3226-3232	2.1	9
42	Two-photon absorption of $Tl_{1-x}In_1-xSn_xSe_2$ ($x = 0, 0.1, 0.2, 0.25$) single crystalline alloys and their nanocrystallites. <i>Optical Materials</i> , 2013 , 35, 2514-2518	3.3	14
41	Formation of intermediate solid solutions in the quaternary exchange system $Cu(In,Ga)(S,Se)_2Cd(S,Se)$. <i>CrystEngComm</i> , 2013 , 15, 4838	3.3	22
40	Photoelectrical properties and the electronic structure of $Tl(1-x)In(1-x)Sn(x)Se_2$ ($x = 0, 0.1, 0.2, 0.25$) single crystalline alloys. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6965-72	3.6	156
39	Spectral and conductivity features of novel ternary $Tl_{1-x}In_1-xSn_xS_2$ crystals. <i>Crystal Research and Technology</i> , 2013 , 48, 464-475	1.3	8
38	$Tl_{1-x}In_1-xSn_xSe_2$ ($x = 0, 0.1, 0.2, 0.25$) single-crystalline alloys as promising non-linear optical materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 3555-3563	2.1	20

37	The $Tl_2Se_2HgSe_2GeSe_2$ system and the crystal structure of $Tl_2HgGeSe_4$. <i>Chemistry of Metals and Alloys</i> , 2013 , 6, 55-62	1	5
36	Physico-chemical interaction in the $Tl_2Se_2HgSe_2DIVSe_2$ systems (DIV Bi, Sn). <i>Materials Research Bulletin</i> , 2012 , 47, 3830-3834	5-1	8
35	Isothermal section of the $Ag_2S_2PbS_2GeS_2$ system at 300K and the crystal structure of Ag_2PbGeS_4 . <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4264-4267	5-7	29
34	Phase diagram of the quasi-binary system $TlInSe_2SnSe_2$. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2693-2696	5-7	15
33	The $CuGaSe_2CuInSe_2CdS$ system and single crystal growth of the β phase. <i>Journal of Crystal Growth</i> , 2011 , 318, 332-336	1-6	7
32	Quasi-ternary system $CuGaS_2CuInS_2CdS$. <i>Journal of Alloys and Compounds</i> , 2010 , 492, 184-189	5-7	7
31	The $Ag_2SnS_2GeS_2$ system: Phase diagram, glass-formation region and crystal structure of Ag_2ZnGeS_4 . <i>Journal of Alloys and Compounds</i> , 2010 , 500, 26-29	5-7	26
30	The $CuInSe_2CuGaSe_2CdSe$ system and crystal growth of the β solid solutions. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 101-107	5-7	6
29	The reciprocal system $Cu_2GeS_3+3CdSe \rightleftharpoons Cu_2GeSe_3+3CdS$. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 94-99	5-7	9
28	Quasi-ternary system $Cu_2GeS_3Cu_2SnS_3CdS$. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 147-153	5-7	10
27	Solid-liquid equilibria in the quasi-ternary system $CdS_2Ga_2S_3GeS_2$. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 91-97	5-7	4
26	Interaction of argyrodite family compounds with the chalcogenides of II-b elements. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 98-104	5-7	9
25	The reciprocal $CuInS_2+2CdSe \rightleftharpoons CuInSe_2+2CdS$ system. Part I. The quasi-binary $CuInSe_2CdSe$ system: Phase diagram and crystal structure of solid solutions. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 315-322	3-3	9
24	The reciprocal $CuInS_2+2CdSe \rightleftharpoons CuInSe_2+2CdS$ system Part II: Liquid-solid equilibria in the system. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2998-3006	3-3	5
23	The quasi-ternary system $Ag_2SCdS_2GeS_2$ and the crystal structure of Ag_2CdGeS_4 . <i>Journal of Alloys and Compounds</i> , 2005 , 397, 95-98	5-7	18
22	Phase relations in the quasi-binary Cu_2GeS_3ZnS and quasi-ternary $Cu_2S_2Zn(Cd)S_2GeS_2$ systems and crystal structure of Cu_2ZnGeS_4 . <i>Journal of Alloys and Compounds</i> , 2005 , 397, 85-94	5-7	88
21	X-ray powder diffraction refinement of $Cu_2ZnGeTe_4$ structure and phase diagram of the Cu_2GeTe_3ZnTe system. <i>Journal of Alloys and Compounds</i> , 2005 , 397, 169-172	5-7	18
20	Phase diagram of the $Ag_2S_2HgS_2SnS_2$ system and single crystal preparation, crystal structure and properties of Ag_2HgSnS_4 . <i>Journal of Alloys and Compounds</i> , 2005 , 399, 32-37	5-7	14

19	Phase relations in the $\text{Ag}_2\text{S}-\text{CdS}-\text{SnS}_2$ system and the crystal structure of the compounds. <i>Journal of Alloys and Compounds</i> , 2005 , 399, 173-177	5-7	37
18	Phase diagrams of the quasi-binary systems $\text{Cu}_2\text{SiS}_3-\text{PbS}$ and $\text{Cu}_2\text{SiS}_3-\text{Sb}_2\text{S}_3$ and the crystal structure of the new quaternary compound $\text{Cu}_2\text{PbSiS}_4$. <i>Journal of Alloys and Compounds</i> , 2005 , 399, 149-154	5-7	16
17	X-ray powder diffraction study of semiconducting alloys $\text{Ag}_{1-x}\text{Cu}_x\text{Cd}_2\text{GaS}_4$ and $\text{AgCd}_2\text{Ga}_{1-x}\text{In}_x\text{S}_4$. <i>Journal of Alloys and Compounds</i> , 2005 , 402, 186-193	5-7	14
16	Phase equilibria in the $\text{Cu}_2\text{S}-\text{ZnS}-\text{SnS}_2$ system. <i>Journal of Alloys and Compounds</i> , 2004 , 368, 135-143	5-7	286
15	Phase equilibria in the quasi-ternary $\text{ZnSe}-\text{Ga}_2\text{Se}_3-\text{SnSe}_2$ system. <i>Journal of Alloys and Compounds</i> , 2004 , 379, 143-147	5-7	3
14	The $\text{Ag}_2\text{Se}-\text{HgSe}-\text{TeSe}_2$ system and crystal structures of the compounds. <i>Journal of Alloys and Compounds</i> , 2003 , 351, 135-144	5-7	14
13	Phase equilibria in the $\text{Cu}_2\text{SnSe}_3-\text{SnSe}_2-\text{ZnSe}$ system. <i>Journal of Alloys and Compounds</i> , 2003 , 351, 145-150	5-7	90
12	Phase diagrams of the $\text{Ag}_2\text{Se}-\text{Zn}(\text{Cd})\text{Se}-\text{BiSe}_2$ systems and crystal structure of the Cd_4SiSe_6 compound. <i>Journal of Alloys and Compounds</i> , 2003 , 354, 138-142	5-7	4
11	The $\text{Ag}_2\text{Se}-\text{CdSe}-\text{SnSe}_2$ system at 670 K and the crystal structure of the $\text{Ag}_2\text{CdSnSe}_4$ compound. <i>Journal of Alloys and Compounds</i> , 2002 , 335, 176-180	5-7	16
10	The $\text{Ag}_2\text{S}-\text{HgS}-\text{TeS}_2$ system at 670 K and the crystal structure of the $\text{Ag}_2\text{HgGeS}_4$ compound. <i>Journal of Alloys and Compounds</i> , 2002 , 336, 213-217	5-7	23
9	The $\text{Ag}_2\text{Se}-\text{HgSe}-\text{SnSe}_2$ system and the crystal structure of the $\text{Ag}_2\text{HgSnSe}_4$ compound. <i>Journal of Alloys and Compounds</i> , 2002 , 339, 140-143	5-7	15
8	Single crystal growth and physical properties of the $\text{Cu}_2\text{CdGeS}_4$ compound. <i>Journal of Alloys and Compounds</i> , 2002 , 339, 40-45	5-7	19
7	Single crystal preparation and crystal structure of the $\text{Cu}_2\text{Zn}/\text{Cd}, \text{Hg}/\text{SnSe}_4$ compounds. <i>Journal of Alloys and Compounds</i> , 2002 , 340, 141-145	5-7	151
6	Phase equilibria in the quasi-ternary system $\text{Ag}_2\text{S}-\text{CdS}-\text{Ga}_2\text{S}_3$. <i>Journal of Alloys and Compounds</i> , 2001 , 325, 167-179	5-7	17
5	Phase diagram of the $\text{Cu}_2\text{GeSe}_3-\text{ZnSe}$ system and crystal structure of the $\text{Cu}_2\text{ZnGeSe}_4$ compound. <i>Journal of Alloys and Compounds</i> , 2001 , 329, 202-207	5-7	59
4	Crystal structure of the $\text{Cu}_2\text{CdSn}_3\text{S}_8$ compound. <i>Journal of Alloys and Compounds</i> , 2000 , 307, 124-126	5-7	24
3	The $\text{Cu}_2\text{Se}-\text{CdSe}-\text{TeSe}_2$ system. <i>Journal of Alloys and Compounds</i> , 2000 , 298, 203-212	5-7	6
2	The phase equilibria in the quasi-binary $\text{Cu}_2\text{GeS}_3/\text{Se}_3/\text{CdS}/\text{Se}$ systems. <i>Journal of Alloys and Compounds</i> , 2000 , 299, 227-231	5-7	27

- 1 The phase equilibria in the quasi-ternary $\text{Cu}_2\text{S}-\text{CdS}-\text{SnS}_2$ system. *Journal of Alloys and Compounds*, **1998**, 279, 142-152

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