Lyudmyla Piskach

List of Publications by Citations

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	Phase equilibria in the Cu2S□ZnS□SnS2 system. *Journal of Alloys and Compounds*, **2004**, 368, 135-143	5.7	286
71	Photoelectrical properties and the electronic structure of Tl(1-x)In(1-x)Sn(x)Se2 (x = 0, 0.1, 0.2, 0.25) single crystalline alloys. *Physical Chemistry Chemical Physics*, **2013**, 15, 6965-72	3.6	156
70	Single crystal preparation and crystal structure of the Cu2Zn/Cd,Hg/SnSe4 compounds. *Journal of Alloys and Compounds*, **2002**, 340, 141-145	5.7	151
69	Phase equilibria in the Cu2SnSe3□SnSe2□ZnSe system. *Journal of Alloys and Compounds*, **2003**, 351, 145-150	5.7	90
68	Phase relations in the quasi-binary Cu2GeS3□ZnS and quasi-ternary Cu2S□Zn(Cd)S□GeS2 systems and crystal structure of Cu2ZnGeS4. *Journal of Alloys and Compounds*, **2005**, 397, 85-94	5.7	88
67	Phase diagram of the Cu2GeSe3□ZnSe system and crystal structure of the Cu2ZnGeSe4 compound. *Journal of Alloys and Compounds*, **2001**, 329, 202-207	5.7	59
66	Phase relations in the Ag2S□CdS□SnS2 system and the crystal structure of the compounds. *Journal of Alloys and Compounds*, **2005**, 399, 173-177	5.7	37
65	Isothermal section of the Ag2S□PbS□GeS2 system at 300K and the crystal structure of Ag2PbGeS4. *Journal of Alloys and Compounds*, **2011**, 509, 4264-4267	5.7	29
64	Electronic structure, optical properties, and lattice dynamics of orthorhombic Cu2CdGeS4 and Cu2CdSiS4 semiconductors. *Physical Review B*, **2014**, 90,	3.3	28
63	The phase equilibria in the quasi-binary Cu2GeS3/Se3/□CdS/Se/ systems. *Journal of Alloys and Compounds*, **2000**, 299, 227-231	5.7	27
62	The Ag2S□ZnS□GeS2 system: Phase diagram, glass-formation region and crystal structure of Ag2ZnGeS4. *Journal of Alloys and Compounds*, **2010**, 500, 26-29	5.7	26
61	The phase equilibria in the quasi-ternary Cu2S□CdS□SnS2 system. *Journal of Alloys and Compounds*, **1998**, 279, 142-152	5.7	24
60	Crystal structure of the Cu2CdSn3S8 compound. *Journal of Alloys and Compounds*, **2000**, 307, 124-126	5.7	24
59	The Ag2S□HgS□GeS2 system at 670 K and the crystal structure of the Ag2HgGeS4 compound. *Journal of Alloys and Compounds*, **2002**, 336, 213-217	5.7	23
58	Formation of intermediate solid solutions in the quaternary exchange system Cu(In,Ga)(S,Se)2□Cd(S,Se). *CrystEngComm*, **2013**, 15, 4838	3.3	22
57	Tl1□In1□SnxSe2 (x = 0, 0.1, 0.2, 0.25) single-crystalline alloys as promising non-linear optical materials. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 3555-3563	2.1	20
56	Single crystal growth and physical properties of the Cu2CdGeS4 compound. *Journal of Alloys and Compounds*, **2002**, 339, 40-45	5.7	19

55	The quasi-ternary system Ag2SCdSGeS2 and the crystal structure of Ag2CdGeS4. *Journal of Alloys and Compounds*, **2005**, 397, 95-98	5.7	18
54	X-ray powder diffraction refinement of Cu2ZnGeTe4 structure and phase diagram of the Cu2GeTe3–ZnTe system. *Journal of Alloys and Compounds*, **2005**, 397, 169-172	5.7	18
53	Phase equilibria in the quasi-ternary system Ag2S–CdS–Ga2S3. *Journal of Alloys and Compounds*, **2001**, 325, 167-179	5.7	17
52	Crystal structure and vibrational properties of Cu2ZnSiSe4 quaternary semiconductor. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 1808-1815	1.3	17
51	Phase diagrams of the quasi-binary systems Cu2SiS2 and Cu2SiS3–PbS and the crystal structure of the new quaternary compound Cu2PbSiS4. *Journal of Alloys and Compounds*, **2005**, 399, 149-154	5.7	16
50	The Ag2Se–CdSe–SnSe2 system at 670 K and the crystal structure of the Ag2CdSnSe4 compound. *Journal of Alloys and Compounds*, **2002**, 335, 176-180	5.7	16
49	Phase diagram of the quasi-binary system TlInSe2–SnSe2. *Journal of Alloys and Compounds*, **2011**, 509, 2693-2696	5.7	15
48	The Ag2Se–HgSe–SnSe2 system and the crystal structure of the Ag2HgSnSe4 compound. *Journal of Alloys and Compounds*, **2002**, 339, 140-143	5.7	15
47	Synthesis, structural, X-ray photoelectron spectroscopy (XPS) studies and IR induced anisotropy of Tl4HgI6 single crystals. *Materials Chemistry and Physics*, **2017**, 187, 156-163	4.4	14
46	Two-photon absorption of Tl1−xIn1−xSnxSe2 (x = 0, 0.1, 0.2, 0.25) single crystalline alloys and their nanocrystallites. *Optical Materials*, **2013**, 35, 2514-2518	3.3	14
45	Phase diagram of the Ag2S–HgS–SnS2 system and single crystal preparation, crystal structure and properties of Ag2HgSnS4. *Journal of Alloys and Compounds*, **2005**, 399, 32-37	5.7	14
44	X-ray powder diffraction study of semiconducting alloys Ag1−xCuxCd2GaS4 and AgCd2Ga1−xInxS4. *Journal of Alloys and Compounds*, **2005**, 402, 186-193	5.7	14
43	The Ag2Se–HgSe–GeSe2 system and crystal structures of the compounds. *Journal of Alloys and Compounds*, **2003**, 351, 135-144	5.7	14
42	Electronic structure and laser induced piezoelectricity of a new quaternary compound TlInGe3S8. *Materials Chemistry and Physics*, **2018**, 204, 336-344	4.4	12
41	Laser-induced piezoelectricity in AgGaGe3−xSixSe8chalcogenide single crystals. *EPJ Applied Physics*, **2015**, 70, 30501	1.1	12
40	Novel AgGa 0.95 In 0.05 Ge 3 Se 8 crystalline alloys for light-operated piezoelectricity. *Journal of Alloys and Compounds*, **2016**, 658, 408-413	5.7	11
39	Novel Quaternary TlGaSn2Se6 Single Crystal as Promising Material for Laser Operated Infrared Nonlinear Optical Modulators. *Crystals*, **2017**, 7, 341	2.3	11
38	Quasi-ternary system Cu2GeS3–Cu2SnS3–CdS. *Journal of Alloys and Compounds*, **2009**, 484, 147-153	5.7	10

37	Thallium indium germanium sulphide (TlInGe2S6) as efficient material for nonlinear optical application. *Journal of Alloys and Compounds*, **2018**, 735, 1694-1702	5.7	10
36	Structural and optical properties of novel optoelectronic Tl1−xIn1−xSixSe2 single crystals. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 3226-3232	2.1	9
35	The reciprocal system Cu2GeS3+3CdSe<=>Cu2GeSe3+3CdS. *Journal of Alloys and Compounds*, **2009**, 473, 94-99	5.7	9
34	Interaction of argyrodite family compounds with the chalcogenides of II-b elements. *Journal of Alloys and Compounds*, **2006**, 421, 98-104	5.7	9
33	The reciprocal CuInS2+2CdSe<=>CuInSe2+2CdS system. Part I. The quasi-binary CuInSe2–CdSe system: Phase diagram and crystal structure of solid solutions. *Journal of Solid State Chemistry*, **2006**, 179, 315-322	3.3	9
32	New quaternary thallium indium germanium selenide TlInGe2Se6: Crystal and electronic structure. *Journal of Solid State Chemistry*, **2017**, 254, 103-108	3.3	8
31	Physico-chemical interaction in the Tl2Se–HgSe–DIVSe2 systems (DIV – Si, Sn). *Materials Research Bulletin*, **2012**, 47, 3830-3834	5.1	8
30	Spectral and conductivity features of novel ternary Tl1−xIn1−xSnxS2 crystals. *Crystal Research and Technology*, **2013**, 48, 464-475	1.3	8
29	Study of optical absorption in TlGaSe2:Zn2+ single crystals. *Ukrainian Journal of Physical Optics*, **2018**, 19, 49-59	1.2	8
28	Crystal growth, electronic and optical properties of Tl2CdSnSe4, a recently discovered prospective semiconductor for application in thin film solar cells and optoelectronics. *Optical Materials*, **2021**, 111, 110656	3.3	8
27	Quasi-ternary system CuGaS2–CuInS2–CdS. *Journal of Alloys and Compounds*, **2010**, 492, 184-189	5.7	7
26	The CuGaSe2–CuInSe2–CdS system and single crystal growth of the Φ-phase. *Journal of Crystal Growth*, **2011**, 318, 332-336	1.6	7
25	The CuInSe2–CuGaSe2–CdSe system and crystal growth of the Φ-solid solutions. *Journal of Alloys and Compounds*, **2010**, 505, 101-107	5.7	6
24	The Cu2Se–CdSe–GeSe2 system. *Journal of Alloys and Compounds*, **2000**, 298, 203-212	5.7	6
23	The Tl2S–PbS–SiS2 system and the crystal and electronic structure of quaternary chalcogenide Tl2PbSiS4. *Materials Chemistry and Physics*, **2017**, 195, 132-142	4.4	5
22	Structural and optical features of novel Tl1−xIn1−xGexSe2 chalcogenide crystals. *Optical Materials*, **2014**, 37, 614-620	3.3	5
21	Tl2S–Ga2S3–GeS2 glasses for optically operated laser third harmonic generation. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 19003-19009	2.1	5
20	The reciprocal CuInS2+2CdSe<=>CuInSe2+2CdS system. Part II: Liquid–solid equilibria in the system. *Journal of Solid State Chemistry*, **2006**, 179, 2998-3006	3.3	5

19	Phase equilibria in the Tl2S–HgS–SnS2 system at 520 K and crystal structure of Tl2HgSnS4. *Chemistry of Metals and Alloys*, **2017**, 10, 136-141	1	5
18	The Tl2Se–HgSe–GeSe2 system and the crystal structure of Tl2HgGeSe4. *Chemistry of Metals and Alloys*, **2013**, 6, 55-62	1	5
17	Vibrational spectroscopy of orthorhombic Cu2ZnSiS4 single crystal: Low-temperature polarized Raman scattering and first principle calculations. *Vibrational Spectroscopy*, **2017**, 89, 81-84	2.1	4
16	Solid–liquid equilibria in the quasi-ternary system CdS–Ga2S3–GeS2. *Journal of Alloys and Compounds*, **2006**, 421, 91-97	5.7	4
15	Phase diagrams of the Ag2Se–Zn(Cd)Se–SiSe2 systems and crystal structure of the Cd4SiSe6 compound. *Journal of Alloys and Compounds*, **2003**, 354, 138-142	5.7	4
14	New cation-disordered quaternary selenides Tl2Ga2TtSe6 (Tt=Ge, Sn). *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **2020**, 75, 135-142	1	4
13	Synthesis and structure of the new semiconductor compounds Tl2BIIDIVX4 (BII–Cd, Hg; DIV–Si, Ge; X–Se, Te) and isothermal sections of the Tl2Se–CdSe-Ge(Sn)Se2 systems at 570 K. *Journal of Solid State Chemistry*, **2020**, 289, 121422	3.3	3
12	Phase equilibria in the quasi-ternary ZnSe–Ga2Se3–SnSe2 system. *Journal of Alloys and Compounds*, **2004**, 379, 143-147	5.7	3
11	Synthesis, electronic structure and optical properties of PbBr 1.2 I 0.8. *Journal of Electron Spectroscopy and Related Phenomena*, **2017**, 218, 13-20	1.7	2
10	Photoinduced Optical Properties Of Tl1−xIn1−xSixSe2 Single Crystals. *Archives of Metallurgy and Materials*, **2015**, 60, 1051-1055		2
9	Preparation, electronic structure and piezooptical properties of solid solutions Tl3PbBr5–I. *Materials Chemistry and Physics*, **2019**, 227, 255-264	4.4	1
8	Raman and Infrared Phonon Spectra of Novel Nonlinear Optical Materials PbGa2GeS6 and PbGa2GeSe6: Experiment and Theory. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900700	1.3	1
7	Phase diagram and specific band gap features of novel TlGaSe2: Zn+2(Cd+2, Hg+2) crystals. *Journal of Alloys and Compounds*, **2018**, 768, 667-675	5.7	1
6	Quaternary Tl2CdGeSe4 selenide: Electronic structure and optical properties of a novel semiconductor for potential application in optoelectronics. *Journal of Solid State Chemistry*, **2021**, 302, 122453	3.3	1
5	Two-photon absorption of Tl1-xIn1-xSnxSe2nanocrystallites. *EPJ Web of Conferences*, **2017**, 133, 03001	0.3	
4	Transport Phenomena In Single Crystals Tl1−xIn1−xGeXSe2 (x=0.1, 0.2). *Archives of Metallurgy and Materials*, **2015**, 60, 2025-2028		
3	New Quaternary Chalcogenides Tl2MIIMIV3Se8 and Tl2MIIMIVX4. *Proceedings (mdpi)*, **2020**, 62, 3	0.3	
2	Photoconductivity of the Single Crystals Pb4Ga4GeS12 and Pb4Ga4GeSe12. *Proceedings (mdpi)*, **2020**, 62, 4	0.3	

1 Optical features of novel semiconducting crystals Tl1−xGa1−xSnxSe2 (x=0.05; 0.1). *Optik*, **2020**, 206, 163572. 2.5