

Lyudmyla Piskach

List of Publications by Year in descending order

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76
papers

1,813
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361045

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docs citations

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times ranked

1527
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase equilibria in the $\text{Cu}_2\text{S}-\text{ZnS}-\text{SnS}_2$ system. Journal of Alloys and Compounds, 2004, 368, 135-143.	2.8	318
2	Single crystal preparation and crystal structure of the $\text{Cu}_2\text{Zn}/\text{Cd}, \text{Hg}/\text{SnSe}_4$ compounds. Journal of Alloys and Compounds, 2002, 340, 141-145.	2.8	169
3	Photoelectrical properties and the electronic structure of $\text{Tl}_{1-x}\text{In}_x\text{Sn}_x\text{Se}_2$ ($x = 0, 0.1, 0.2, 0.25$) single crystalline alloys. Physical Chemistry Chemical Physics, 2013, 15, 6965.	1.3	167
4	Phase relations in the quasi-binary $\text{Cu}_2\text{GeS}_3-\text{ZnS}$ and quasi-ternary $\text{Cu}_2\text{S}-\text{Zn}(\text{Cd})-\text{GeS}_2$ systems and crystal structure of $\text{Cu}_2\text{ZnGeS}_4$. Journal of Alloys and Compounds, 2005, 397, 85-94.	2.8	104
5	Phase equilibria in the $\text{Cu}_2\text{SnSe}_3-\text{SnSe}_2-\text{ZnSe}$ system. Journal of Alloys and Compounds, 2003, 351, 145-150.	2.8	101
6	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. Journal of Alloys and Compounds, 2001, 329, 202-207.	2.8	65
7	Phase relations in the $\text{Ag}_2\text{S}-\text{CdS}-\text{SnS}_2$ system and the crystal structure of the compounds. Journal of Alloys and Compounds, 2005, 399, 173-177.	2.8	45
8	Electronic structure, optical properties, and lattice dynamics of orthorhombic $\text{Cu}_2\text{CdGeS}_4$ and $\text{Cu}_2\text{ZnGeS}_4$. Journal of Alloys and Compounds, 2005, 399, 178-184.	2.8	35
9	The $\text{Ag}_2\text{S}-\text{ZnS}-\text{GeS}_2$ system: Phase diagram, glass-formation region and crystal structure of $\text{Ag}_2\text{ZnGeS}_4$. Journal of Alloys and Compounds, 2010, 500, 26-29.	2.8	33
10	Crystal structure of the $\text{Cu}_2\text{CdSn}_3\text{S}_8$ compound. Journal of Alloys and Compounds, 2000, 307, 124-126.	2.8	32
11	The $\text{Ag}_2\text{S}-\text{HgS}-\text{GeS}_2$ system at 670 K and the crystal structure of the $\text{Ag}_2\text{HgGeS}_4$ compound. Journal of Alloys and Compounds, 2002, 336, 213-217.	2.8	32
12	Isothermal section of the $\text{Ag}_2\text{S}-\text{PbS}-\text{GeS}_2$ system at 300K and the crystal structure of $\text{Ag}_2\text{PbGeS}_4$. Journal of Alloys and Compounds, 2011, 509, 4264-4267.	2.8	32
13	The phase equilibria in the quasi-binary $\text{Cu}_2\text{GeS}_3/\text{Se}_3-\text{CdS}/\text{Se}$ systems. Journal of Alloys and Compounds, 2000, 299, 227-231.	2.8	30
14	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.	2.8	26
15	Single crystal growth and physical properties of the $\text{Cu}_2\text{CdGeS}_4$ compound. Journal of Alloys and Compounds, 2002, 339, 40-45.	2.8	22
16	The quasi-ternary system $\text{Ag}_2\text{SCdSGeS}_2$ and the crystal structure of $\text{Ag}_2\text{CdGeS}_4$. Journal of Alloys and Compounds, 2005, 397, 95-98.	2.8	22
17	Formation of intermediate solid solutions in the quaternary exchange system $\text{Cu}(\text{In}, \text{Ga})(\text{S}, \text{Se})_2-\text{Cd}(\text{S}, \text{Se})$. CrystEngComm, 2013, 15, 4838.	1.3	22
18	Crystal structure and vibrational properties of $\text{Cu}_2\text{ZnSiSe}_4$ quaternary semiconductor. Physica Status Solidi (B): Basic Research, 2016, 253, 1808-1815.	0.7	22

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19	The Ag ₂ Seâ€“CdSeâ€“SnSe ₂ system at 670 K and the crystal structure of the Ag ₂ CdSnSe ₄ compound. Journal of Alloys and Compounds, 2002, 335, 176-180.	2.8	21
20	X-ray powder diffraction refinement of Cu ₂ ZnGeTe ₄ structure and phase diagram of the Cu ₂ GeTe ₃ â€“ZnTe system. Journal of Alloys and Compounds, 2005, 397, 169-172.	2.8	21
21	Phase equilibria in the quasi-ternary system Ag ₂ Sâ€“CdSâ€“Ga ₂ S ₃ . Journal of Alloys and Compounds, 2001, 325, 167-179.	2.8	20
22	The Ag ₂ Seâ€“HgSeâ€“SnSe ₂ system and the crystal structure of the Ag ₂ HgSnSe ₄ compound. Journal of Alloys and Compounds, 2002, 339, 140-143.	2.8	20
23	The Ag ₂ Seâ€“HgSeâ€“GeSe ₂ system and crystal structures of the compounds. Journal of Alloys and Compounds, 2003, 351, 135-144.	2.8	20
24	Tl _{1-λ} In _{1-λ} ^{λ} Sn _{λ} Se ₂ (λ =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.	1.1	20
25	Phase diagrams of the quasi-binary systems Cu ₂ Sâ€“SiS ₂ and Cu ₂ SiS ₃ â€“PbS and the crystal structure of the new quaternary compound Cu ₂ PbSiS ₄ . Journal of Alloys and Compounds, 2005, 399, 149-154.	2.8	19
26	Phase diagram of the Ag ₂ Sâ€“HgSâ€“SnS ₂ system and single crystal preparation, crystal structure and properties of Ag ₂ HgSnS ₄ . Journal of Alloys and Compounds, 2005, 399, 32-37.	2.8	18
27	Two-photon absorption of Tl _{1-λ} In _{1-λ} ^{λ} Sn _{λ} Se ₂ (λ =0, 0.1, 0.2, 0.25) single crystalline alloys and their nanocrystallites. Optical Materials, 2013, 35, 2514-2518.	1.7	17
28	X-ray powder diffraction study of semiconducting alloys Ag _{1-λ} Cu _{λ} Cd ₂ GaS ₄ and AgCd ₂ Ga _{1-λ} In _{λ} S ₄ . Journal of Alloys and Compounds, 2005, 402, 186-193.	2.8	16
29	Phase diagram of the quasi-binary system TlInSe ₂ â€“SnSe ₂ . Journal of Alloys and Compounds, 2011, 509, 2693-2696.	2.8	16
30	Crystal growth, electronic and optical properties of Tl ₂ CdSnSe ₄ , a recently discovered prospective semiconductor for application in thin film solar cells and optoelectronics. Optical Materials, 2021, 111, 110656.	1.7	16
31	Synthesis, structural, X-ray photoelectron spectroscopy (XPS) studies and IR induced anisotropy of Tl ₄ Hgl ₆ single crystals. Materials Chemistry and Physics, 2017, 187, 156-163.	2.0	15
32	Novel Quaternary TlGaSn ₂ Se ₆ Single Crystal as Promising Material for Laser Operated Infrared Nonlinear Optical Modulators. Crystals, 2017, 7, 341.	1.0	15
33	Study of optical absorption in TlGaSe ₂ :Zn ²⁺ single crystals. Ukrainian Journal of Physical Optics, 2018, 19, 49-59.	9.7	15
34	Physico-chemical interaction in the Tl ₂ Seâ€“HgSeâ€“DIVSe ₂ systems (DIV â€“ Si, Sn). Materials Research Bulletin, 2012, 47, 3830-3834.	2.7	13
35	Interaction of argyrodite family compounds with the chalcogenides of II-b elements. Journal of Alloys and Compounds, 2006, 421, 98-104.	2.8	12
36	The reciprocal CuInS ₂ +2CdSeâ€“CuInSe ₂ +2CdS system. Part I. The quasi-binary CuInSe ₂ â€“CdSe system: Phase diagram and crystal structure of solid solutions. Journal of Solid State Chemistry, 2006, 179, 315-322.	1.4	12

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37	Laser-induced piezoelectricity in $\text{AgGaGe}_3\text{SixSe}_8$ chalcogenide single crystals. EPJ Applied Physics, 2015, 70, 30501.	0.3	12
38	Electronic structure and laser induced piezoelectricity of a new quaternary compound $\text{TlInGe}_3\text{S}_8$. Materials Chemistry and Physics, 2018, 204, 336-344.	2.0	12
39	Novel $\text{AgGa}_{0.95}\text{In}_{0.05}\text{Ge}_3\text{Se}_8$ crystalline alloys for light-operated piezoelectricity. Journal of Alloys and Compounds, 2016, 658, 408-413.	2.8	11
40	New quaternary thallium indium germanium selenide $\text{TlInGe}_2\text{Se}_6$: Crystal and electronic structure. Journal of Solid State Chemistry, 2017, 254, 103-108.	1.4	11
41	Thallium indium germanium sulphide ($\text{TlInGe}_2\text{S}_6$) as efficient material for nonlinear optical application. Journal of Alloys and Compounds, 2018, 735, 1694-1702.	2.8	11
42	Quasi-ternary system $\text{Cu}_2\text{GeS}_3\text{-Cu}_2\text{SnS}_3\text{-CdS}$. Journal of Alloys and Compounds, 2009, 484, 147-153.	2.8	10
43	The $\text{CuGaSe}_2\text{-CuInSe}_2\text{-CdS}$ system and single crystal growth of the $\hat{1}^3$ -phase. Journal of Crystal Growth, 2011, 318, 332-336.	0.7	10
44	Structural and optical properties of novel optoelectronic $\text{Tl}_1\text{In}_1\text{SixSe}_2$ single crystals. Journal of Materials Science: Materials in Electronics, 2014, 25, 3226-3232.	1.1	10
45	The reciprocal system $\text{Cu}_2\text{GeS}_3+3\text{CdSe}\ddagger\text{Cu}_2\text{GeSe}_3+3\text{CdS}$. Journal of Alloys and Compounds, 2009, 473, 94-99.	2.8	9
46	Synthesis and structure of the new semiconductor compounds $\text{Tl}_2\text{BiIDIVX}_4$ ($\text{Bi}\hat{=}\text{Cd, Hg; DIV}\hat{=}\text{Si, Ge}$) $\text{Tj ETQq0.0.0 rgBT /Overlock 1}$ Chemistry, 2020, 289, 121422.	1.4	9
47	The reciprocal $\text{CuInS}_2+2\text{CdSe}\ddagger\text{CuInSe}_2+2\text{CdS}$ system $\hat{=}$ Part II: Liquid $\hat{=}$ solid equilibria in the system. Journal of Solid State Chemistry, 2006, 179, 2998-3006.	1.4	8
48	Quasi-ternary system $\text{CuGaS}_2\text{-CuInS}_2\text{-CdS}$. Journal of Alloys and Compounds, 2010, 492, 184-189.	2.8	8
49	Spectral and conductivity features of novel ternary $\text{Tl}_{1-x}\text{In}_x\text{Sn}_x\text{S}_{2-x}$ crystals. Crystal Research and Technology, 2013, 48, 464-475.	0.6	8
50	The $\text{Cu}_2\text{Se}\text{-CdSe}\text{-GeSe}_2$ system. Journal of Alloys and Compounds, 2000, 298, 203-212.	2.8	7
51	Phase diagrams of the $\text{Ag}_2\text{Se}\text{-Zn(Cd)Se}\text{-SiSe}_2$ systems and crystal structure of the Cd_4SiSe_6 compound. Journal of Alloys and Compounds, 2003, 354, 138-142.	2.8	7
52	The $\text{CuInSe}_2\text{-CuGaSe}_2\text{-CdSe}$ system and crystal growth of the $\hat{1}^3$ -solid solutions. Journal of Alloys and Compounds, 2010, 505, 101-107.	2.8	7
53	The $\text{Tl}_2\text{S}\text{-PbS}\text{-Si}_2$ system and the crystal and electronic structure of quaternary chalcogenide $\text{Tl}_2\text{PbSiS}_4$. Materials Chemistry and Physics, 2017, 195, 132-142.	2.0	7
54	Phase equilibria in the $\text{Tl}_2\text{S}\text{-HgS}\text{-SnS}_2$ system at 520 K and crystal structure of $\text{Tl}_2\text{HgSnS}_4$. Chemistry of Metals and Alloys, 2017, 10, 136-141.	0.2	7

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55	The Tl ₂ Se-HgSe-GeSe ₂ system and the crystal structure of Tl ₂ HgGeSe ₄ . Chemistry of Metals and Alloys, 2013, 6, 55-62.	0.2	7
56	Phase equilibria in the quasi-ternary ZnSe-Ga ₂ Se ₃ -SnSe ₂ system. Journal of Alloys and Compounds, 2004, 379, 143-147.	2.8	6
57	Structural and optical features of novel Tl _{1-x} In _{1-x} GexSe ₂ chalcogenide crystals. Optical Materials, 2014, 37, 614-620.	1.7	6
58	Synthesis, electronic structure and optical properties of PbBr _{1.2} I _{0.8} . Journal of Electron Spectroscopy and Related Phenomena, 2017, 218, 13-20.	0.8	6
59	Tl ₂ S-Ga ₂ S ₃ -GeS ₂ glasses for optically operated laser third harmonic generation. Journal of Materials Science: Materials in Electronics, 2017, 28, 19003-19009.	1.1	6
60	Quaternary Tl ₂ CdGeSe ₄ selenide: Electronic structure and optical properties of a novel semiconductor for potential application in optoelectronics. Journal of Solid State Chemistry, 2021, 302, 122453.	1.4	6
61	Solid-liquid equilibria in the quasi-ternary system CdS-Ga ₂ S ₃ -GeS ₂ . Journal of Alloys and Compounds, 2006, 421, 91-97.	2.8	5
62	Vibrational spectroscopy of orthorhombic Cu ₂ ZnSiS ₄ single crystal: Low-temperature polarized Raman scattering and first principle calculations. Vibrational Spectroscopy, 2017, 89, 81-84.	1.2	5
63	New cation-disordered quaternary selenides Tl ₂ Ga ₂ TtSe ₆ (Tt=Ge, Sn). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 135-142.	0.3	5
64	Photoinduced Optical Properties Of Tl _{1-x} In _{1-x} SixSe ₂ Single Crystals. Archives of Metallurgy and Materials, 2015, 60, 1051-1055.	0.6	3
65	Raman and Infrared Phonon Spectra of Novel Nonlinear Optical Materials PbGa ₂ GeS ₆ and PbGa ₂ GeSe ₆ : Experiment and Theory. Physica Status Solidi (B): Basic Research, 2020, 257, 1900700.	0.7	3
66	Transport Phenomena In Single Crystals Tl _{1-x} In _{1-x} GexSe ₂ (x=0.1, 0.2). Archives of Metallurgy and Materials, 2015, 60, 2025-2028.	0.6	2
67	Preparation, electronic structure and piezooptical properties of solid solutions Tl ₃ PbBr ₅ . Materials Chemistry and Physics, 2019, 227, 255-264.	2.0	2
68	Phase diagram and specific band gap features of novel TlGaSe ₂ : Zn ₂ (Cd ₂ , Hg ₂) crystals. Journal of Alloys and Compounds, 2018, 768, 667-675.	2.8	1
69	Optical features of novel semiconducting crystals Tl _{1-x} Ga _{1-x} SnxSe ₂ (x=0.05; 0.1). Optik, 2020, 206, 163572.	1.4	1
70	Tl ₂ S-In ₂ S ₃ -GeS ₂ Glass System as Novel Promising Materials for Photonics. Physics and Chemistry of Solid State, 2019, 20, 416-422.	0.3	1
71	Physico-Chemical Interaction in the Ag ₂ Se-Zn(Cd, Hg, Pb)Se-SnSe ₂ Systems. , 0, , .		1
72	Acentric phase formation in AgLnX ₂ (Ln = Dy, Ho, Er; X = S, Se, Te) compounds. , 2010, , .		0

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73	Acentric phase formation in AgLnX, (Ln = Dy, Ho, Er; X = S, Se, Te) compounds. , 2010, , .		0
74	Two-photon absorption of Tl1-xIn1-xSnxSe2nanocrystallites. EPJ Web of Conferences, 2017, 133, 03001.	0.1	0
75	New Quaternary Chalcogenides Tl2MIIIMIV3Se8 and Tl2MIIIMIVX4. Proceedings (mdpi), 2020, 62, 3.	0.2	0
76	Photoconductivity of the Single Crystals Pb4Ga4GeS12 and Pb4Ga4GeSe12. Proceedings (mdpi), 2020, 62, .	0.2	0