

# Oleg Parasyuk

## List of Publications by Citations

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ext. citations

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#	Paper	IF	Citations
219	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> , <b>2013</b> , 15, 6965-72	3.6	156
218	Single crystal preparation and crystal structure of the $Cu_2Zn/Cd,Hg/SnSe_4$ compounds. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 340, 141-145	5.7	151
217	Linear, non-linear optical susceptibilities and the hyperpolarizability of the mixed crystals $Ag(0.5)Pb(1.75)Ge(S(1-x)Se(x))_4$ : experiment and theory. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 18979-86	3.6	144
216	Phase relations in the quasi-binary $Cu_2GeS_3ZnS$ and quasi-ternary $Cu_2S_n(Cd)S_mGeS_2$ systems and crystal structure of $Cu_2ZnGeS_4$ . <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 397, 85-94	5.7	88
215	Phase diagram of the $Cu_2GeSe_3ZnSe$ system and crystal structure of the $Cu_2ZnGeSe_4$ compound. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 329, 202-207	5.7	59
214	Electronic structure of $Cu_2ZnGeSe_4$ single crystal: Ab initio FP-LAPW calculations and X-ray spectroscopy measurements. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 461, 75-84	2.8	46
213	Electronic spectral parameters and IR nonlinear optical features of novel $Ag_0.5Pb_1.75GeS_4$ crystal. <i>Journal of Crystal Growth</i> , <b>2012</b> , 354, 142-146	1.6	46
212	The $Ag_2Si_2S_3Bi(Ge)S_2$ systems and crystal structure of quaternary sulfides $Ag_2In_2Si(Ge)S_6$ . <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 452, 348-358	5.7	45
211	Crystal growth, electron structure and photo induced optical changes in novel $Ag_xGa_xGe_{1-x}Se_2$ ( $x=0.333, 0.250, 0.200, 0.167$ ) crystals. <i>Optical Materials</i> , <b>2012</b> , 35, 65-73	3.3	44
210	Electronic structure and optical properties of $Ag_2HgSnSe_4$ : First-principles DFT calculations and X-ray spectroscopy studies. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 732, 372-384	5.7	40
209	Electronic structure of non-centrosymmetric $AgCd_2GaS_4$ and $AgCd_2GaSe_4$ single crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2012</b> , 185, 559-566	1.7	40
208	Electronic Structure of Quaternary Chalcogenide $Ag_2In_2Ge(Si)S_6$ Single Crystals and the Influence of Replacing Ge by Si: Experimental X-Ray Photoelectron Spectroscopy and X-Ray Diffraction Studies and Theoretical Calculations. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 316-327	2.3	40
207	Electronic structure of cadmium selenogallate $CdGa_2Se_4$ as studied using ab initio calculations and X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 481, 28-34	5.7	38
206	Phase relations in the $Ag_2S_nCdS_mSnS_2$ system and the crystal structure of the compounds. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 399, 173-177	5.7	37
205	Crystal growth and the electronic structure of $Tl_3PbCl_5$ . <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 705-713	3.9	36
204	Influence of replacing Si by Ge in the chalcogenide quaternary sulfides $Ag_2In_2Si(Ge)S_6$ on the chemical bonding, linear and nonlinear optical susceptibilities, and hyperpolarizability. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 2545-53	3.4	35
203	$Ag_2Si_2SnS_4$ single crystals as promising materials for optoelectronic. <i>Optical Materials</i> , <b>2011</b> , 33, 1302-1306	3.6	35

202	Crystal structures of low- and high-temperature modifications of Cu <sub>2</sub> CdGeSe <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 347, 193-197	5-7	35
201	Optical spectra and band structure of Ag(x)Ga(x)Ge(1-x)Se <sub>2</sub> (x = 0.333, 0.250, 0.200, 0.167) single crystals: experiment and theory. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 15220-31	3-4	33
200	Single crystal growth and the electronic structure of orthorhombic Tl <sub>3</sub> PbBr <sub>5</sub> : A novel material for non-linear optics. <i>Optical Materials</i> , <b>2013</b> , 35, 1081-1089	3-3	32
199	Single crystal growth and electronic structure of TlPbI <sub>3</sub> . <i>Materials Chemistry and Physics</i> , <b>2016</b> , 172, 165-172	1-7	31
198	Second anion coordination for wurtzite and sphalerite chalcogenide derivatives as a tool for the description of anion sub-lattice. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 139, 92-99	4-4	31
197	Crystal structure of the new quaternary phase AgCd <sub>2</sub> Ga <sub>4</sub> and phase diagram of the quasi-binary system AgGa <sub>2</sub> Tl <sub>2</sub> S. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 312, 189-195	5-7	31
196	Synthesis and structural properties of CuInGeS <sub>4</sub> . <i>Journal of Crystal Growth</i> , <b>2011</b> , 324, 212-216	1-6	30
195	Single crystal preparation and properties of the AgGaGeS <sub>4</sub> /AgGaGe <sub>3</sub> Se <sub>8</sub> solid solution. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 708-712	1-6	29
194	Electronic structure, optical properties, and lattice dynamics of orthorhombic Cu <sub>2</sub> CdGeS <sub>4</sub> and Cu <sub>2</sub> CdSiS <sub>4</sub> semiconductors. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	28
193	IR operated novel Ag <sub>0.98</sub> Cu <sub>0.02</sub> GaGe <sub>3</sub> Se <sub>8</sub> single crystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 1354-1357	3-9	28
192	The phase equilibria in the quasi-binary Cu <sub>2</sub> GeS <sub>3</sub> /Se <sub>3</sub> /Tl <sub>2</sub> S/Se/ systems. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 299, 227-231	5-7	27
191	The Ag <sub>2</sub> S <sub>2</sub> ZnS <sub>2</sub> TeS <sub>2</sub> system: Phase diagram, glass-formation region and crystal structure of Ag <sub>2</sub> ZnGeS <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 500, 26-29	5-7	26
190	Phase diagram of the CuInS <sub>2</sub> /ZnS system and some physical properties of solid solutions phases. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 348, 57-64	5-7	26
189	Crystal structure of the phases Hg <sub>5</sub> CIII <sub>2</sub> X <sub>8</sub> (CIII = Ga, In; X = Se, Te). <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 503, 40-43	5-7	25
188	The phase equilibria in the quasi-ternary Cu <sub>2</sub> S <sub>2</sub> Tl <sub>2</sub> SnS <sub>2</sub> system. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 279, 142-152	5-7	24
187	Crystal structure of the Cu <sub>2</sub> CdSn <sub>3</sub> S <sub>8</sub> compound. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 307, 124-126	5-7	24
186	Particular features of the electronic structure and optical properties of Ag <sub>2</sub> PbGeS <sub>4</sub> as evidenced from first-principles DFT calculations and XPS studies. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 208, 268-280	4-4	23
185	A theoretical and experimental study of the valence-band electronic structure and optical constants of quaternary copper mercury tin sulfide, Cu <sub>2</sub> HgSnS <sub>4</sub> , a potential material for optoelectronics and solar cells. <i>Optical Materials</i> , <b>2019</b> , 96, 109296	3-3	23

184	X-ray spectroscopy study of the electronic structure of non-centrosymmetric Ag <sub>2</sub> CdSnS <sub>4</sub> single crystal. <i>Optical Materials</i> , <b>2014</b> , 36, 1396-1401	3-3	23
183	Electronic structure and optical properties of Cs <sub>2</sub> HgI <sub>4</sub> : Experimental study and band-structure DFT calculations. <i>Optical Materials</i> , <b>2015</b> , 42, 351-360	3-3	23
182	First-principles band-structure calculations and X-ray photoelectron spectroscopy studies of the electronic structure of TlPb <sub>2</sub> Cl <sub>5</sub> . <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 582, 802-809	5-7	23
181	The Ag <sub>2</sub> S <sub>2</sub> HgS <sub>2</sub> GeS <sub>2</sub> system at 670 K and the crystal structure of the Ag <sub>2</sub> HgGeS <sub>4</sub> compound. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 336, 213-217	5-7	23
180	Electronic structure and optical properties of Cu <sub>2</sub> CdGeS <sub>4</sub> : DFT calculations and X-ray spectroscopy measurements. <i>Optical Materials</i> , <b>2015</b> , 47, 435-444	3-3	22
179	Electronic structure of non-centrosymmetric Ag <sub>2</sub> HgSnS <sub>4</sub> single crystal. <i>Optical Materials</i> , <b>2014</b> , 36, 977-981	3-3	22
178	Single crystal growth and the electronic structure of TlPb <sub>2</sub> Br <sub>5</sub> . <i>Optical Materials</i> , <b>2013</b> , 36, 251-258	3-3	22
177	Formation of intermediate solid solutions in the quaternary exchange system Cu(In,Ga)(S,Se) <sub>2</sub> Cd(S,Se). <i>CrystEngComm</i> , <b>2013</b> , 15, 4838	3-3	22
176	Electrical and Optical Properties of Cu <sub>2</sub> CdGeS <sub>4</sub> Single Crystals. <i>Inorganic Materials</i> , <b>2003</b> , 39, 919-923	0-9	22
175	Electronic structure of Cu <sub>2</sub> CdGeSe <sub>4</sub> single crystal as determined from X-ray spectroscopy data. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 160, 345-351	4-4	21
174	PbGa <sub>2</sub> GeS <sub>6</sub> crystal as a novel nonlinear optical material: Band structure aspects. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 740, 294-304	5-7	20
173	X-ray photoelectron spectrum, X-ray diffraction data, and electronic structure of chalcogenide quaternary sulfide Ag <sub>2</sub> In <sub>2</sub> GeS <sub>6</sub> : experiment and theory. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1342-1350	4-3	20
172	Electronic structure of the high-temperature tetragonal Tl <sub>3</sub> PbBr <sub>5</sub> phase. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 576, 271-278	5-7	20
171	Tl <sub>1-x</sub> In <sub>1-x</sub> Sn <sub>x</sub> Se <sub>2</sub> (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> , <b>2013</b> , 24, 3555-3563	2-1	20
170	Phase diagram of the quasi-binary Cu <sub>2</sub> GeS <sub>3</sub> HgS system and crystal structure of the LT-modification of the Cu <sub>2</sub> HgGeS <sub>4</sub> compound. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 334, 143-146	5-7	20
169	Phase diagram of the AgGaSe <sub>2</sub> CdSe system and crystal structure of the AgCd <sub>2</sub> GaSe <sub>4</sub> compound. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 343, 125-131	5-7	20
168	Piezooptical coefficients of La <sub>3</sub> Ga <sub>5</sub> SiO <sub>14</sub> and CaWO <sub>4</sub> crystals: A combined optical interferometry and polarization-optical study. <i>Optical Materials</i> , <b>2010</b> , 33, 26-30	3-3	19
167	The phase equilibria in the quasi-ternary Ag <sub>2</sub> Se <sub>2</sub> Ga <sub>2</sub> Se <sub>3</sub> GeSe <sub>2</sub> system. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 260, 111-120	5-7	19

166	Crystal structure of $\text{Ag}_8\text{SnSe}_6$ . <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 339, 113-117	5.7	19
165	Single crystal growth and physical properties of the $\text{Cu}_2\text{CdGeS}_4$ compound. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 339, 40-45	5.7	19
164	Specific features of the electronic structure of a novel ternary $\text{Tl}_3\text{PbI}_5$ optoelectronic material. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 12838-47	3.6	18
163	ELECTRONIC STRUCTURE OF $\text{AgCd}_2\text{GaS}_4$ . <i>Surface Review and Letters</i> , <b>2007</b> , 14, 403-409	1.1	18
162	The quasi-ternary system $\text{Ag}_2\text{SCdSGe}_2$ and the crystal structure of $\text{Ag}_2\text{CdGeS}_4$ . <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 397, 95-98	5.7	18
161	X-ray powder diffraction refinement of $\text{Cu}_2\text{ZnGeTe}_4$ structure and phase diagram of the $\text{Cu}_2\text{GeTe}_3\text{-ZnTe}$ system. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 397, 169-172	5.7	18
160	Electronic structure and photoelectrical properties of $\text{Ag}_2\text{In}_2\text{SiSe}_6$ and $\text{Ag}_2\text{In}_2\text{GeSe}_6$ . <i>Optical Materials</i> , <b>2014</b> , 38, 10-16	3.3	17
159	Specific features of band structure and optical anisotropy of $\text{Cu}_2\text{CdGeSe}_4$ quaternary compounds. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 147, 155-161	4.4	17
158	X-ray diffraction study of the $\text{AgCd}_2\text{-MnxGaS}_4$ semiconductor alloys and their electrical, optical, and photoelectrical properties. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 373, 355-359	2.8	17
157	Phase equilibria in the quasi-ternary $\text{Cu}_2\text{Se-ZnSe-TeSe}_2$ system. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 348, 195-202	5.7	17
156	Phase equilibria in the quasi-ternary system $\text{Ag}_2\text{SCdSGa}_2\text{S}_3$ . <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 325, 167-179	5.7	17
155	Crystal structure and vibrational properties of $\text{Cu}_2\text{ZnSiSe}_4$ quaternary semiconductor. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 1808-1815	1.3	17
154	Photovoltaic, photoelectric and optical spectra of novel $\text{Ag}_x\text{GaxGe}_{1-x}\text{Se}_2$ (0.167 $\leq$ x $\leq$ 0.333) quaternary single crystals. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 135, 837-841	4.4	16
153	Phase diagrams of the quasi-binary systems $\text{Cu}_2\text{SbS}_2$ and $\text{Cu}_2\text{SiS}_3\text{-PbS}$ and the crystal structure of the new quaternary compound $\text{Cu}_2\text{PbSiS}_4$ . <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 399, 149-154	5.7	16
152	X-ray powder diffraction study of the $\text{Cu}_2\text{Cd}_{1-x}\text{MnxSnSe}_4$ alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 459-465	1.6	16
151	Single-crystal growth and properties of $\text{AgCd}_2\text{GaS}_4$ . <i>Journal of Crystal Growth</i> , <b>2005</b> , 279, 140-145	1.6	16
150	The $\text{Ag}_2\text{Se-CdSe-SnSe}_2$ system at 670 K and the crystal structure of the $\text{Ag}_2\text{CdSnSe}_4$ compound. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 335, 176-180	5.7	16
149	Crystal structures of the $\text{Ag}_4\text{HgGe}_2\text{S}_7$ and $\text{Ag}_4\text{CdGe}_2\text{S}_7$ compounds. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 340, 157-166	5.7	16

- 148 Phase diagram and electric transport properties of samples of the quasi-binary system  $\text{CuInS}_2$ - $\text{CdS}$ . *Journal of Alloys and Compounds*, **2000**, 309, 39-44 5.7 16
- 147 Manifestation of Anomalous Weak Space-Charge-Density Acentricity for a  $\text{TlHgBr}$  Single Crystal. *Inorganic Chemistry*, **2016**, 55, 10547-10557 5.1 16
- 146 Photoconductivity and nonlinear optical features of novel  $\text{Ag}_x\text{Ga}_x\text{Ge}_{1-x}\text{Se}_2$  crystals. *Materials Research Bulletin*, **2017**, 85, 74-79 5.1 15
- 145 Phase diagram of the quasi-binary system  $\text{TlInSe}_2$ - $\text{Bi}_2\text{Se}_3$ . *Journal of Alloys and Compounds*, **2011**, 509, 2693-2696 5.7 15
- 144 Single crystal growth and properties of  $\beta$  phase in the  $\text{CuInSe}_2+2\text{CdS} \rightleftharpoons \text{CuInS}_2+2\text{CdSe}$  reciprocal system. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1495-1499 6.4 15
- 143 Sellmeier equations for green, yellow, and orange colored  $\text{HgGa}_2\text{S}_4$  crystals. *Applied Physics Letters*, **2007**, 90, 181913 3.4 15
- 142 The  $\text{Ag}_2\text{Se}$ - $\text{HgSe}$ - $\text{Bi}_2\text{Se}_3$  system and the crystal structure of the  $\text{Ag}_2\text{HgSnSe}_4$  compound. *Journal of Alloys and Compounds*, **2002**, 339, 140-143 5.7 15
- 141 Synthesis, structural, X-ray photoelectron spectroscopy (XPS) studies and IR induced anisotropy of  $\text{Tl}_4\text{HgI}_6$  single crystals. *Materials Chemistry and Physics*, **2017**, 187, 156-163 4.4 14
- 140 Growth, structure and optical properties of  $\text{Tl}_4\text{HgBr}_6$  single crystals. *Physica B: Condensed Matter*, **2015**, 479, 134-142 2.8 14
- 139 Huge operation by energy gap of novel narrow band gap  $\text{Tl}_1\text{In}_1\text{B}_x\text{Se}_2$  (B = Si, Ge): DFT, x-ray emission and photoconductivity studies. *Materials Research Express*, **2016**, 3, 025902 1.7 14
- 138 Two-photon absorption of  $\text{Tl}_1\text{In}_1\text{Sn}_x\text{Se}_2$  ( $x = 0, 0.1, 0.2, 0.25$ ) single crystalline alloys and their nanocrystallites. *Optical Materials*, **2013**, 35, 2514-2518 3.3 14
- 137 Photoinduced features of energy bandgap in quaternary  $\text{Cu}_2\text{CdGeS}_4$  crystals. *Journal of Physics Condensed Matter*, **2013**, 25, 505802 1.8 14
- 136 Single crystal growth and properties of the  $\beta$  phase in the  $\text{CuInSe}_2$ - $\text{CdTe}$  system. *Journal of Crystal Growth*, **2009**, 311, 2381-2384 1.6 14
- 135 Formation of an endothermal  $\text{Cu}_2\text{In}_2\text{Si}_6$  compound in the  $\text{CuInS}_2$ - $\text{Bi}_2\text{S}_3$  system. *Journal of Alloys and Compounds*, **2007**, 443, 61-67 5.7 14
- 134 Phase diagram of the  $\text{Ag}_2\text{S}$ - $\text{HgS}$ - $\text{Bi}_2\text{S}_3$  system and single crystal preparation, crystal structure and properties of  $\text{Ag}_2\text{HgSnS}_4$ . *Journal of Alloys and Compounds*, **2005**, 399, 32-37 5.7 14
- 133 X-ray powder diffraction study of semiconducting alloys  $\text{Ag}_1\text{Cu}_x\text{Cd}_2\text{Ga}_4$  and  $\text{AgCd}_2\text{Ga}_1\text{In}_x\text{S}_4$ . *Journal of Alloys and Compounds*, **2005**, 402, 186-193 5.7 14
- 132 X-ray powder diffraction refinement of  $\text{Ag}_2\text{In}_2\text{Si}_6$  structure and phase diagram of the  $\text{AgInSe}_2$ - $\text{Bi}_2\text{Se}_3$  system. *Journal of Alloys and Compounds*, **2006**, 414, 73-77 5.7 14
- 131 Structural and optical properties of noncentrosymmetric quaternary crystal  $\text{AgCd}_2\text{GaS}_4$ . *Journal of Crystal Growth*, **2006**, 292, 494-499 1.6 14



130	The Ag <sub>2</sub> Se <sub>1-x</sub> Hg <sub>x</sub> Se <sub>3</sub> BiSe <sub>2</sub> system in the 0-10 mol.% BiSe <sub>2</sub> region. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 348, 157-166	5-7	14
129	The Ag <sub>2</sub> Se <sub>1-x</sub> Hg <sub>x</sub> Se <sub>3</sub> TeSe <sub>2</sub> system and crystal structures of the compounds. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 351, 135-144	5-7	14
128	Electrical and photoelectrical properties of CuInS <sub>2</sub> /In <sub>2</sub> S <sub>4</sub> solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 553, 48-52	5-7	13
127	Photo induced anisotropy in the AgGaGe <sub>3</sub> Se <sub>8</sub> :Cu chalcogenide crystals. <i>Materials Letters</i> , <b>2013</b> , 107, 218-220	3-3	13
126	Crystal structure of the Ag <sub>6</sub> Hg <sub>0.82</sub> Ge <sub>5.82</sub> compound. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 327, 100-103	4-9	13
125	Synthesis and structure of novel Ag <sub>2</sub> Ga <sub>2</sub> SiSe <sub>6</sub> crystals: promising materials for dynamic holographic image recording. <i>RSC Advances</i> , <b>2016</b> , 6, 90958-90966	3-7	13
124	Electronic structure and laser induced piezoelectricity of a new quaternary compound TlInGe <sub>3</sub> S <sub>8</sub> . <i>Materials Chemistry and Physics</i> , <b>2018</b> , 204, 336-344	4-4	12
123	Single crystal growth, electronic structure and optical properties of Cs <sub>2</sub> HgBr <sub>4</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2015</b> , 85, 254-263	3-9	12
122	Origin of electronic properties of PbGa <sub>2</sub> Se <sub>4</sub> crystal: Experimental and theoretical investigations. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 633, 415-423	5-7	12
121	The AgGaS <sub>2</sub> + 2CdSe ⇌ AgGaSe <sub>2</sub> + 2CdS system. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 367, 25-35	5-7	12
120	Single-crystal growth of Cu <sub>2</sub> CdGeS <sub>4</sub> . <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e159-e162	1-6	12
119	Single crystal growth and properties of AgGaGeS <sub>4</sub> . <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1983-e1985	1-6	12
118	Single crystal growth, structure and properties of TlHgBr <sub>3</sub> . <i>Optical Materials</i> , <b>2015</b> , 49, 94-99	3-3	11
117	Novel AgGa <sub>0.95</sub> In <sub>0.05</sub> Ge <sub>3</sub> Se <sub>8</sub> crystalline alloys for light-operated piezoelectricity. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 658, 408-413	5-7	11
116	First-principles DFT calculations of the electronic structure and optical properties of TlInGe <sub>2</sub> Se <sub>6</sub> , a prospective NLO material. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 219, 162-174	4-4	11
115	Laser-induced piezoelectric effects in chalcogenide crystals. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 423, 60-63	2-8	11
114	Concentration dependence of the optical properties of glassy alloys in the HgS-Ga <sub>2</sub> S <sub>3</sub> -GeS <sub>2</sub> system. <i>Glass Physics and Chemistry</i> , <b>2010</b> , 36, 27-32	0-7	11
113	The Cu <sub>2</sub> Se <sub>1-x</sub> Hg <sub>x</sub> Se <sub>3</sub> BiSe <sub>2</sub> system. <i>Journal of Alloys and Compounds</i> , <b>1999</b> , 287, 197-205	5-7	11

112	TlInGe <sub>2</sub> Sn <sub>6</sub> , A Prospective Nonlinear Optical Material: First-Principles DFT Calculations of the Electronic Structure and Optical Properties. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 5525-5536	1.9	11
111	Synthesis, structural, electronic and linear electro-optical features of new quaternary Ag <sub>2</sub> Ga <sub>2</sub> Si <sub>6</sub> compound. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 246, 363-371	3.3	10
110	IR-induced features of AgGaGe <sub>4</sub> crystalline semiconductors. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 439-443	3.9	10
109	IR laser induced spectral kinetics of AgGaGe <sub>3</sub> Se <sub>8</sub> :Cu chalcogenide crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2013</b> , 111, 142-9	4.4	10
108	Synthesis and spectral features of Ag <sub>2</sub> Sn <sub>3</sub> S <sub>3</sub> crystals. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 135, 249-253	4.4	10
107	Quasi-ternary system Cu <sub>2</sub> Ge <sub>3</sub> Sn <sub>2</sub> S <sub>3</sub> S <sub>3</sub> Se <sub>8</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 484, 147-153	5.7	10
106	New compounds Cu <sub>2</sub> MnTi <sub>3</sub> S <sub>8</sub> and Cu <sub>2</sub> NiTi <sub>3</sub> S <sub>8</sub> with thiospinel structure. <i>Materials Research Bulletin</i> , <b>2007</b> , 42, 143-148	5.1	10
105	Electronic, Optical and Elastic Properties of Cu <sub>2</sub> CdGeSe <sub>4</sub> : A First-Principles Study. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 705-715	1.9	10
104	Thallium indium germanium sulphide (TlInGe <sub>2</sub> Sn <sub>6</sub> ) as efficient material for nonlinear optical application. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 1694-1702	5.7	10
103	Specific features of photoconductivity and photoinduced piezoelectricity in AgGaGe <sub>3</sub> Se <sub>8</sub> doped crystals. <i>Optical Materials</i> , <b>2017</b> , 63, 197-206	3.3	9
102	Structural and optical properties of novel optoelectronic Tl <sub>1-x</sub> In <sub>x</sub> Sn <sub>6</sub> Se <sub>2</sub> single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3226-3232	2.1	9
101	Electronic and optical features of the mixed crystals Ag <sub>0.5</sub> Pb <sub>1.75</sub> Ge(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>4</sub> . <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4667	7.1	9
100	The reciprocal system Cu <sub>2</sub> Ge <sub>3</sub> +3CdSe ↔ Cu <sub>2</sub> GeSe <sub>3</sub> +3CdS. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 473, 94-99	5.7	9
99	Interaction of argyrodite family compounds with the chalcogenides of II-b elements. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 421, 98-104	5.7	9
98	The reciprocal CuInS <sub>2</sub> +2CdSe ↔ CuInSe <sub>2</sub> +2CdS system. Part I. The quasi-binary CuInSe <sub>2</sub> +CdSe system: Phase diagram and crystal structure of solid solutions. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 315-322	3.3	9
97	Crystal structures of the Ag <sub>6</sub> HgGeSe <sub>6</sub> and Ag <sub>6</sub> HgSiSe <sub>6</sub> compounds. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 343, 116-121	5.7	9
96	Electronic band structure and basic optical constants of TlGaSn <sub>2</sub> Se <sub>6</sub> , a promising NLO semiconductor: First-principles calculations under DFT framework. <i>Optik</i> , <b>2019</b> , 181, 673-685	2.5	9
95	Tl <sub>10</sub> Hg <sub>3</sub> Cl <sub>16</sub> : Single crystal growth, electronic structure and piezoelectric properties. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 242, 193-198	3.3	8



94	Optoelectronic features of novel infrared CuInS <sub>2</sub> /In <sub>2</sub> S <sub>4</sub> crystalline alloys. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 163-167	2.1	8
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89	Phase diagram of the CuGaSe <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> and CuInSe <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> systems. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 420, 54-57	5.7	8
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83	Manifestation of intrinsic defects in the band structures of quaternary chalcogenide Ag <sub>2</sub> In <sub>2</sub> SiSe <sub>6</sub> and Ag <sub>2</sub> In <sub>2</sub> GeSe <sub>6</sub> crystals. <i>CrystEngComm</i> , <b>2014</b> , 16, 9534-9544	3.3	7
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8	Crystal structure of the Cu <sub>5.976</sub> Hg <sub>0.972</sub> SiSe <sub>6</sub> compound. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 367, 121-125	5-7	0
7	Two-photon absorption of Tl <sub>1-x</sub> In <sub>1-x</sub> S <sub>n</sub> Se <sub>2</sub> nanocrystallites. <i>EPJ Web of Conferences</i> , <b>2017</b> , 133, 03001	0-3	
6	Influence of technological defects on the optical and photoelectric properties of AgCd <sub>2</sub> □ Mn x GaSe <sub>4</sub> alloys. <i>Semiconductors</i> , <b>2012</b> , 46, 306-311	0-7	
5	Transport Phenomena In Single Crystals Tl <sub>1-x</sub> In <sub>1-x</sub> GeXSe <sub>2</sub> (x=0.1, 0.2). <i>Archives of Metallurgy and Materials</i> , <b>2015</b> , 60, 2025-2028		

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