

# Ludmila I Isaenko

## List of Publications by Year in descending order

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209  
papers

3,342  
citations

136950

32  
h-index

214800

47  
g-index

211  
all docs

211  
docs citations

211  
times ranked

2112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties of Dy <sup>3+</sup> - and Nd <sup>3+</sup> -doped KPb <sub>2</sub> Cl <sub>5</sub> . Journal of the Optical Society of America B: Optical Physics, 2001, 18, 264.	2.1	121
2	Optical, vibrational, thermal, electrical, damage, and phase-matching properties of lithium thioindate. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1981.	2.1	103
3	Recent studies of nonlinear chalcogenide crystals for the mid-IR. Semiconductor Science and Technology, 2016, 31, 123001.	2.0	100
4	Flux Crystal Growth and the Electronic Structure of BaFe <sub>12</sub> O <sub>19</sub> Hexaferrite. Journal of Physical Chemistry C, 2016, 120, 5114-5123.	3.1	96
5	Exploration on anion ordering, optical properties and electronic structure in K <sub>3</sub> WO <sub>3</sub> F <sub>3</sub> elpasolite. Journal of Solid State Chemistry, 2012, 187, 159-164.	2.9	95
6	Electronic structure and fundamental absorption edges of KPb <sub>2</sub> Br <sub>5</sub> , K <sub>0.5</sub> Rb <sub>0.5</sub> Pb <sub>2</sub> Br <sub>5</sub> , and RbPb <sub>2</sub> Br <sub>5</sub> single crystals. Journal of Physics and Chemistry of Solids, 2012, 73, 674-682.	4.0	87
7	Optical, thermal, electrical, damage, and phase-matching properties of lithium selenoindate. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1902.	2.1	84
8	Optical properties of Nd <sup>3+</sup> - and Tb <sup>3+</sup> -doped KPb <sub>2</sub> Br <sub>5</sub> and RbPb <sub>2</sub> Br <sub>5</sub> with low nonradiative decay. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 2117.	2.1	82
9	Nonlinear LiBiIIIYl <sub>2</sub> crystals for mid-IR and far-IR: Novel aspects in crystal growth. Journal of Crystal Growth, 2008, 310, 1954-1960.	1.5	81
10	Growth, structural and magnetic characterization of Co- and Ni-substituted barium hexaferrite single crystals. Journal of Alloys and Compounds, 2015, 628, 480-484.	5.5	68
11	Low-Energy Ar <sup>+</sup> Ion-Beam-Induced Amorphization and Chemical Modification of Potassium Titanyl Arsenate (001) Crystal Surfaces. Journal of Physical Chemistry C, 2007, 111, 2702-2708.	3.1	66
12	Singly-resonant optical parametric oscillation based on the wide band-gap mid-IR nonlinear optical crystal LiGaS <sub>2</sub> . Optical Materials, 2013, 35, 1612-1615.	3.6	55
13	Growth, structural and magnetic characterization of Al-substituted barium hexaferrite single crystals. Journal of Alloys and Compounds, 2014, 615, 1043-1046.	5.5	55
14	Electronic structure of KTiOAsO <sub>4</sub> : A comparative study by the full potential linearized augmented plane wave method, X-ray emission spectroscopy and X-ray photoelectron spectroscopy. Journal of Alloys and Compounds, 2009, 477, 768-775.	5.5	49
15	Self-trapped excitons in LiB <sub>3</sub> O <sub>5</sub> and Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> lithium borates: Time-resolved low-temperature luminescence VUV spectroscopy. Physics of the Solid State, 2000, 42, 464-472.	0.6	46
16	A luminescence spectroscopy study of scintillation crystals SrI <sub>2</sub> doped with Eu <sup>2+</sup> . Optical Materials, 2012, 34, 926-930.	3.6	43
17	Core level photoelectron spectroscopy of LiGaS <sub>2</sub> and Ga-S bonding in complex sulfides. Journal of Alloys and Compounds, 2010, 497, 244-248.	5.5	42
18	LiInSe <sub>2</sub> nanosecond optical parametric oscillator. Optics Letters, 2005, 30, 2460.	3.3	41

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19	Magnetic and Structural Properties of Barium Hexaferrite BaFe <sub>12</sub> O <sub>19</sub> from Various Growth Techniques. <i>Materials</i> , 2017, 10, 578.	2.9	41
20	Anisotropy of two-photon absorption in BBO at 264 nm. <i>Optics Communications</i> , 2001, 198, 433-438.	2.1	40
21	Thermally stimulated luminescence and lattice defects in crystals of alkali metal borate LiB <sub>3</sub> O <sub>5</sub> (LBO). <i>Radiation Measurements</i> , 2001, 33, 577-581.	1.4	40
22	Laser activity at 118, 107, and 097??m in the low-phonon-energy hosts KPb <sub>2</sub> Br <sub>5</sub> and RbPb <sub>2</sub> Br <sub>5</sub> doped with Nd <sup>3+</sup> . <i>Optics Letters</i> , 2005, 30, 729.	3.3	40
23	Growth, structural and magnetic characterization of Zn-substituted barium hexaferrite single crystals. <i>Materials Chemistry and Physics</i> , 2015, 163, 416-420.	4.0	40
24	Structural, Spectroscopic, and Electronic Properties of Cubic G0-Rb <sub>2</sub> KTiOF <sub>5</sub> Oxyfluoride. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7269-7278.	3.1	38
25	Ti-Substituted BaFe <sub>12</sub> O <sub>19</sub> Single Crystal Growth and Characterization. <i>Crystal Growth and Design</i> , 2014, 14, 5834-5839.	3.0	38
26	Nd:YAG pumped nanosecond optical parametric oscillator based on LiInSe <sub>2</sub> with tunability extending from 47 to 87 ?m. <i>Optics Express</i> , 2009, 17, 13441.	3.4	37
27	Crystal Growth, Structure, and Optical Properties of LiGaGe <sub>2</sub> Se <sub>6</sub> . <i>Inorganic Chemistry</i> , 2016, 55, 8672-8680.	4.0	37
28	Crystal structure of KPb <sub>2</sub> Cl <sub>5</sub> and KPb <sub>2</sub> Br <sub>5</sub> . <i>Journal of Structural Chemistry</i> , 2005, 46, 103-108.	1.0	36
29	Cu-substituted barium hexaferrite crystal growth and characterization. <i>Ceramics International</i> , 2015, 41, 9172-9176.	4.8	36
30	Structural and electronic properties of the KTiOAsO <sub>4</sub> (001) surface. <i>Optical Materials</i> , 2008, 30, 1149-1152.	3.6	35
31	Negative thermal expansion and electronic structure variation of chalcopyrite type LiGaTe <sub>2</sub> . <i>RSC Advances</i> , 2018, 8, 9946-9955.	3.6	35
32	Upconversion processes in Er <sup>3+</sup> :KPb <sub>2</sub> Cl <sub>5</sub> laser crystals. <i>Journal of Luminescence</i> , 2007, 125, 271-278.	3.1	34
33	Widely tunable continuous-wave mid-infrared radiation (55-11 ?m) by difference-frequency generation in LiInS <sub>2</sub> crystal. <i>Applied Optics</i> , 2005, 44, 4123.	2.1	33
34	Electronic structure and optical properties of RbPb <sub>2</sub> Br <sub>5</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2016, 91, 25-33.	4.0	33
35	Electronic structure of lithium tetraborate Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> crystals. Cluster calculations and x-ray photoelectron spectroscopy. <i>Physics of the Solid State</i> , 1999, 41, 48-50.	0.6	31
36	Spectroscopic studies of erbium-doped potassium-lead double chloride crystals KPb <sub>2</sub> Cl <sub>5</sub> :Er <sup>3+</sup> : 1. Optical spectra and relaxation of excited states of the erbium ion in potassium-lead double chloride crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2003, 95, 722-740.	0.6	28

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37	Electronic structure of LiGaS <sub>2</sub> . Solid State Communications, 2009, 149, 572-575.	1.9	28
38	Difference-frequency generation of fs and ps mid-IR pulses in LiInSe <sub>2</sub> based on Yb-fiber laser pump sources. Optics Letters, 2014, 39, 4353.	3.3	28
39	Electronic structure and optical properties of noncentrosymmetric LiGaSe <sub>2</sub> : Experimental measurements and DFT band structure calculations. Optical Materials, 2017, 66, 149-159.	3.6	28
40	A New Nonlinear Optical Selenide Crystal AgLiGa <sub>2</sub> Se <sub>4</sub> with Good Comprehensive Performance in Mid-Infrared Region. Advanced Optical Materials, 2021, 9, 2001856.	7.3	28
41	Phase-matching properties of LiGaS <sub>2</sub> in the 1025–105910 <sup>14</sup> m spectral range. Optics Letters, 2017, 42, 4363-27	4.3	27
42	Single crystal growth and surface chemical stability of KPb <sub>2</sub> Br <sub>5</sub> . Journal of Crystal Growth, 2011, 318, 1000-1004.	1.5	26
43	Tungsten substituted BaFe <sub>12</sub> O <sub>19</sub> single crystal growth and characterization. Materials Chemistry and Physics, 2015, 155, 99-103.	4.0	26
44	Electronic structure and optical properties of noncentrosymmetric LiGaGe <sub>2</sub> Se <sub>6</sub> , a promising nonlinear optical material. Physica B: Condensed Matter, 2016, 501, 74-83.	2.7	25
45	Specific features of the electronic structure and optical properties of KPb <sub>2</sub> Br <sub>5</sub> : DFT calculations and X-ray spectroscopy measurements. Optical Materials, 2016, 53, 64-72.	3.6	25
46	Thermal properties of the midinfrared nonlinear crystal LiInSe <sub>2</sub> . Journal of Applied Physics, 2004, 96, 3659-3665.	2.5	23
47	Frequency doubling of CO <sub>2</sub> laser radiation at 106 <sup>14</sup> m in the highly nonlinear chalcopyrite LiGaTe <sub>2</sub> . Optics Letters, 2007, 32, 1722.	3.3	23
48	Measurement of Raman-Scattering Spectra of Rb <sub>2</sub> KMoO <sub>3</sub> F <sub>3</sub> Crystal: Evidence for Controllable Disorder in the Lattice Structure. Crystal Growth and Design, 2014, 14, 923-927.	3.0	22
49	Low-temperature time-resolved spectroscopy of APb <sub>2</sub> X <sub>5</sub> crystals (A: K, Rb; X: Cl, Br). Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2006, 101, 234-244.	0.6	21
50	Structure and optical properties of Li <sub>2</sub> Ga <sub>2</sub> GeS <sub>6</sub> nonlinear crystal. Optical Materials, 2015, 47, 413-419.	3.6	21
51	Spectroscopic study of neodymium-doped potassium-lead double chloride Nd <sup>3+</sup> :KPb <sub>2</sub> Cl <sub>5</sub> crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2002, 92, 83-94.	0.6	20
52	The optical properties of the nonlinear crystal BaGa <sub>4</sub> Se <sub>7</sub> . Optical Materials, 2020, 99, 109564.	3.6	20
53	Electronic parameters and top surface chemical stability of RbPb <sub>2</sub> Br <sub>5</sub> . Materials Chemistry and Physics, 2012, 132, 82-86.	4.0	19
54	Electronic excitations and luminescence in CsLiB <sub>6</sub> O <sub>10</sub> crystals. Physics of the Solid State, 2000, 42, 1846-1853.	0.6	18

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55	Search for and study of phase transitions in some representatives of the APb <sub>2</sub> X <sub>5</sub> family. Physics of the Solid State, 2006, 48, 2152-2156.	0.6	18
56	Optical properties of LiGaS <sub>2</sub> : an <i>ab initio</i> study and spectroscopic ellipsometry measurement. Journal of Physics Condensed Matter, 2009, 21, 455502.	1.8	18
57	Optical study of defects in lithium iodate $\hat{1}\pm$ -LiIO <sub>3</sub> . Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1430.	2.1	18
58	Morphology and magnetic properties of pressed barium hexaferrite BaFe <sub>12</sub> O <sub>19</sub> materials. Journal of Magnetism and Magnetic Materials, 2018, 459, 131-135.	2.3	18
59	Transient optical absorption and luminescence in Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> lithium tetraborate. Physics of the Solid State, 2002, 44, 1085-1092.	0.6	17
60	Optical pump-probe processes in Nd <sup>3+</sup> -doped KPb <sub>2</sub> Br <sub>5</sub> , RbPb <sub>2</sub> Br <sub>5</sub> , and KPb <sub>2</sub> Cl <sub>5</sub> . Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2610.	2.1	17
61	Femtosecond mid-IR difference-frequency generation in LiInSe <sub>2</sub> . Optical Materials Express, 2013, 3, 1834.	3.0	17
62	Thermal and thermo-optic parameters of LiInSe <sub>2</sub> single crystals. Journal of Crystal Growth, 2005, 275, e1679-e1684.	1.5	16
63	Growth and real structure of KTiOAsO <sub>4</sub> crystals from self-fluxes. Journal of Crystal Growth, 1997, 171, 146-153.	1.5	15
64	Transient optical absorption and luminescence of lithium triborate LiB <sub>3</sub> O <sub>5</sub> . Physics of the Solid State, 2003, 45, 845-853.	0.6	15
65	Optical and photoelectron spectroscopy studies of KPb <sub>2</sub> Cl <sub>5</sub> and RbPb <sub>2</sub> Cl <sub>5</sub> laser crystals. Optical Materials, 2013, 35, 620-625.	3.6	15
66	Properties of LiGa <sub>0.5</sub> In <sub>0.5</sub> Se <sub>2</sub> : A Quaternary Chalcogenide Crystal for Nonlinear Optical Applications in the Mid-IR. Crystals, 2016, 6, 85.	2.2	15
67	A luminescence spectroscopy and theoretical study of 4f <sup>n</sup> →5d transitions of Ce <sup>3+</sup> ions in SrAlF <sub>5</sub> crystals. Journal of Physics Condensed Matter, 2011, 23, 105501.	1.8	14
68	Photoluminescence of lithium thiogallate LiGaS <sub>2</sub> . Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1003.	2.1	14
69	Experimental heat capacity of LiInS <sub>2</sub> , LiInSe <sub>2</sub> , LiGaS <sub>2</sub> , LiGaSe <sub>2</sub> , and LiGaTe <sub>2</sub> from 180 to 460 K. Journal of Thermal Analysis and Calorimetry, 2017, 129, 103-108.	3.6	13
70	Structural, optical and electronic properties of K <sub>2</sub> Ba(NO <sub>3</sub> ) <sub>4</sub> crystal. Physica B: Condensed Matter, 2018, 531, 149-158.	2.7	13
71	Theoretical and experimental study on the electronic and optical properties of K <sub>0.5</sub> Rb <sub>0.5</sub> Pb <sub>2</sub> Br <sub>5</sub> : a promising laser host material. RSC Advances, 2020, 10, 11156-11164.	3.6	13
72	<title>New low-phonon frequency crystals based on rare-earth-doped double halogenides for multiwavelength diode-pumped solid state lasers</title>. , 2002, , .		12

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73	Effect of K <sup>2+</sup> Rb Substitution on Structure and Phase Transition in Mixed K <sub>x</sub> Rb <sub>1-x</sub> Pb <sub>2</sub> Br <sub>5</sub> Crystals. <i>Crystal Growth and Design</i> , 2009, 9, 2248-2251.	3.0	12
74	A luminescence spectroscopy study of Sr <sub>12</sub> :Nd <sup>3+</sup> single crystals. <i>Journal of Luminescence</i> , 2013, 143, 101-107.	3.1	12
75	Infrared absorption investigation of the role of octahedral groups upon the phase transition in the Rb <sub>2</sub> KMoO <sub>3</sub> F <sub>3</sub> crystal. <i>Physics of the Solid State</i> , 2013, 55, 2331-2334.	0.6	12
76	DFT study and XPS measurements elucidating the electronic and optical properties of KPb <sub>2</sub> Cl <sub>5</sub> . <i>Optical Materials</i> , 2020, 102, 109793.	3.6	12
77	Dy <sup>3+</sup> -doped crystals of double chlorides and double fluorides as the active media of IR solid-state lasers and telecommunication amplifiers. <i>Journal of Optical Technology (A Translation of Opticheskii Tzhenitskiy Vestnik)</i> , 2014, 11, 1034-1037.	0.3	12
78	Effects of evaporation and melting on nonstoichiometry and inhomogeneity of LiInSe <sub>2</sub> crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 601-605.	3.6	11
79	The luminescence microspectroscopy of Pr <sup>3+</sup> -doped LiBaAlF <sub>6</sub> and Ba <sub>3</sub> Al <sub>2</sub> F <sub>12</sub> crystals. <i>Radiation Measurements</i> , 2013, 56, 49-53.	1.4	11
80	Magnon BEC in Antiferromagnets with Suhl-Nakamura Interaction. <i>Journal of Low Temperature Physics</i> , 2014, 175, 167-176.	1.4	11
81	New SrPb <sub>3</sub> Br <sub>8</sub> crystals: Growth, crystal structure and optical properties. <i>Journal of Alloys and Compounds</i> , 2016, 682, 832-838.	5.5	11
82	Crystal growth and electronic structure of low-temperature phase SrMgF <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , 2016, 236, 89-93.	2.9	11
83	Electronic structure and optical properties of LiGa <sub>0.5</sub> In <sub>0.5</sub> Se <sub>2</sub> single crystal, a nonlinear optical mid-IR material. <i>Optical Materials</i> , 2018, 80, 12-21.	3.6	11
84	Structure and Optical Properties of the Li <sub>2</sub> In <sub>2</sub> GeSe <sub>6</sub> Crystal. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17413-17422.	3.1	11
85	Luminescent properties of crystalline lithium triborate LiB <sub>3</sub> O <sub>5</sub> . <i>Physics of the Solid State</i> , 1999, 41, 197-201.	0.6	10
86	Electron excitations in LiB <sub>3</sub> O <sub>5</sub> crystals with defects: Low-temperature time-resolved luminescence VUV spectroscopy. <i>Physics of the Solid State</i> , 2001, 43, 1454-1463.	0.6	10
87	Spectroscopic properties of TR <sup>3+</sup> -doped double chloride crystals. , 2002, 4766, 22.		10
88	Phase Transition in a KPb <sub>2</sub> Br <sub>5</sub> Crystal. <i>Physics of the Solid State</i> , 2005, 47, 332.	0.6	10
89	Luminescence and electronic excitations in Li <sub>6</sub> Gd(BO <sub>3</sub> ) <sub>3</sub> : Ce <sup>3+</sup> crystals. <i>Physics of the Solid State</i> , 2012, 54, 485-492.	0.6	10
90	Raman spectroscopic study of the lattice dynamics in the Rb <sub>2</sub> KMoO <sub>3</sub> F <sub>3</sub> oxyfluoride. <i>Physics of the Solid State</i> , 2012, 54, 1275-1280.	0.6	10

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91	Orthorhombic Crystals of Lithium Thioindate and Selenoindate for Nonlinear Optics in the Mid-IR. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 67-104.	0.3	10
92	50-ÅµJ level, 20-picosecond, narrowband difference-frequency generation at 46, 54, 75, 92, and 108 Åµm in LiGaS <sub>2</sub> and LiGaSe <sub>2</sub> at Nd:YAG laser pumping and various crystalline Raman laser seedings. Optical Materials Express, 2020, 10, 1881.	3.0	10
93	Radiation-induced holelike centers in KTiOAsO <sub>4</sub> . Solid State Communications, 1995, 95, 739-743.	1.9	9
94	Optical properties of lithium thioindate. , 2001, 4268, 49.		9
95	Characterization of LiInS <sub>2</sub> and LiInSe <sub>2</sub> single crystals for nonlinear optical applications. Materials Research Society Symposia Proceedings, 2001, 692, 1.	0.1	9
96	Raman spectra and elastic properties of KPb <sub>2</sub> Cl <sub>5</sub> crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3142-3145.	0.8	9
97	LiInSe <sub>2</sub> nanosecond optical parametric oscillator tunable from 4.7 to 8.7 Åµm. Proceedings of SPIE, 2010, , .	0.8	9
98	Growth, Morphology and Optical Properties of <sup>13</sup> BiB <sub>3</sub> O <sub>6</sub> Single Crystals. Crystal Growth and Design, 2012, 12, 75-78.	3.0	9
99	A time-resolved luminescence spectroscopy study of non-linear optical crystals K <sub>2</sub> Al <sub>2</sub> B <sub>2</sub> O <sub>7</sub> . Journal of Luminescence, 2012, 132, 1632-1638.	3.1	9
100	Origin of the solid solution in the LiInSe <sub>2</sub> - In <sub>2</sub> Se <sub>3</sub> system. Journal of Solid State Chemistry, 2014, 220, 91-96.	2.9	9
101	Structures and optical properties of two phases of SrMgF <sub>4</sub> . Physical Chemistry Chemical Physics, 2015, 17, 500-508.	2.8	9
102	LiGaTe <sub>2</sub> (LGT) nonlinear crystal: Synthesis and crystal growth processes exploration. Materials Science in Semiconductor Processing, 2017, 72, 52-59.	4.0	9
103	Kinetics of non-equilibrium processes in non-linear crystals of lithium borates excited with synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 467-470.	1.6	8
104	Thermodynamic properties and structure of oxyfluorides Rb <sub>2</sub> KMoO <sub>3</sub> F <sub>3</sub> and K <sub>2</sub> NaMoO <sub>3</sub> F <sub>3</sub> . Physics of the Solid State, 2011, 53, 1202-1211.	0.6	8
105	Synthesis and structural properties of cubic G0-Rb <sub>2</sub> KMoO <sub>3</sub> F <sub>3</sub> oxyfluoride. Ceramics International, 2012, 38, 2455-2459.	4.8	8
106	A far ultraviolet spectroscopic study of the reflectance, luminescence and electronic properties of SrMgF <sub>4</sub> single crystals. Journal of Luminescence, 2014, 145, 872-879.	3.1	8
107	Spectroscopic features of nonlinear AgGaSe <sub>2</sub> crystals. Journal of Crystal Growth, 2014, 387, 41-47.	1.5	8
108	Optical and luminescence spectroscopy studies of electronic structure of Li <sub>6</sub> Gd <sub>3</sub> B <sub>3</sub> O <sub>9</sub> single crystals. Optical Materials, 2014, 36, 1060-1064.	3.6	8

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109	Time-resolved luminescence spectroscopy of structurally disordered K <sub>3</sub> WO <sub>3</sub> F <sub>3</sub> crystals. <i>Optical Materials</i> , 2016, 58, 285-289.	3.6	8
110	Phase Transitions of Nonlinear Optical LiGaTe <sub>2</sub> Crystals before and after Melting. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17429-17435.	3.1	8
111	Structural and X-ray spectroscopy studies of Pb <sub>1-x</sub> Bax(NO <sub>3</sub> ) <sub>2</sub> solid solutions. <i>Journal of Solid State Chemistry</i> , 2019, 277, 786-792.	2.9	8
112	Specific Peculiarities of the Electronic Structure of SrPb <sub>3</sub> Br <sub>8</sub> As Evidenced from First-Principles DFT Band-Structure Calculations. <i>Journal of Electronic Materials</i> , 2019, 48, 3059-3068.	2.2	8
113	Optical and electronic properties of lithium thiogallate (LiGaS <sub>2</sub> ): experiment and theory. <i>RSC Advances</i> , 2020, 10, 26843-26852.	3.6	8
114	Optical and positron annihilation studies of structural defects in LiInSe <sub>2</sub> single crystals. <i>Optical Materials</i> , 2020, 109, 110262.	3.6	8
115	Single crystal growth and the electronic structure of Rb <sub>2</sub> Na(NO <sub>3</sub> ) <sub>3</sub> : Experiment and theory. <i>Journal of Solid State Chemistry</i> , 2021, 294, 121910.	2.9	8
116	New Monocrystals with Low Phonon Energy for Mid-IR Lasers. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 3-65.	0.3	8
117	Thermophysical properties of lithium thiogallate that are important for optical applications. <i>RSC Advances</i> , 2021, 11, 39177-39187.	3.6	8
118	Spectroscopic Study of KTiOAsO <sub>4</sub> Single Crystals Doped with In, Sc, Fe. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 198, 577-585.	1.5	7
119	Spectroscopic investigation of rare-earth-doped chloride single crystals for telecommunications amplifiers. , 1998, , .		7
120	Vibrational spectra of KPb <sub>2</sub> Cl <sub>5</sub> and KPb <sub>2</sub> Br <sub>5</sub> crystals. <i>Computational Materials Science</i> , 2006, 36, 212-216.	3.0	7
121	Luminescence properties of undoped LiBaAlF <sub>6</sub> single crystals. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 295504.	1.8	7
122	Electronic properties of undoped LiBaAlF <sub>6</sub> single crystals: far-ultraviolet optical, luminescence, and x-ray photoelectron spectroscopy studies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1926.	2.1	7
123	<title>Cs:KTiOAsO<sub>4</sub>; optical ion-exchanged waveguides</title>. , 1996, , .		6
124	Electron Paramagnetic Resonance and Optical Absorption Spectra of Rh Impurity Ion in KTiOAsO <sub>4</sub> Single Crystal. <i>Ferroelectrics</i> , 2006, 330, 85-92.	0.6	6
125	Coefficients of thermal expansion of the potassium and rubidium halogenide plumbates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 323-325.	3.6	6
126	New mixed LiGa <sub>0.5</sub> In <sub>0.5</sub> Se <sub>2</sub> nonlinear crystal for the mid-IR. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6



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127	Ultraviolet luminescence of Li <sub>6</sub> Gd(BO <sub>3</sub> ) <sub>3</sub> : Ce crystals under selective excitation in the region of 4d → 4f transitions. <i>Physics of the Solid State</i> , 2012, 54, 2039-2050.	0.6	6
128	Spectroscopic study of red-light-emitting centers in K <sub>2</sub> Al <sub>2</sub> B <sub>2</sub> O <sub>7</sub> : Fe single crystals. <i>Optical Materials</i> , 2013, 35, 1173-1178.	3.6	6
129	Investigation of the ferroelastic phase transition in the SrMgF <sub>4</sub> pyroelectric crystal. <i>Physics of the Solid State</i> , 2014, 56, 757-760.	0.6	6
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