

Witold Ryba-Romanowski

List of Publications by Year in descending order

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123
papers

1,920
citations

279487

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docs citations

125
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal, spectroscopic and optical sensor properties of oxyfluorotellurite glasses doped with holmium and ytterbium. <i>Materials Research Bulletin</i> , 2022, 153, 111909.	2.7	5
2	Exploring the Impact of Structure-Sensitivity Factors on Thermographic Properties of Dy ³⁺ -Doped Oxide Crystals. <i>Materials</i> , 2021, 14, 2370.	1.3	14
3	Broadband Near-Infrared Luminescence in Lead Germanate Glass Triply Doped with Yb ³⁺ /Er ³⁺ /Tm ³⁺ . <i>Materials</i> , 2021, 14, 2901.	1.3	7
4	Phonon Sideband Analysis and Near-Infrared Emission in Heavy Metal Oxide Glasses. <i>Materials</i> , 2021, 14, 121.	1.3	9
5	Silica-based oxyfluoride glass and glass-ceramic doped with Tm ³⁺ and Yb ³⁺ -VUV-VIS-NIR spectroscopy and optical thermometry. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152304.	2.8	25
6	Spectroscopic properties of thulium doped (Lu _{0.25} Gd _{0.75}) ₂ SiO ₅ (LGSO) single crystals. <i>Journal of Luminescence</i> , 2020, 220, 116962.	1.5	5
7	Spectroscopic properties of Dy ³⁺ ions in La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ single crystal. <i>Journal of Luminescence</i> , 2020, 220, 116989.	1.5	10
8	Multi-component tellurite glasses doped with erbium for multi-model temperature sensing and optical amplification. <i>Materials Research Bulletin</i> , 2020, 132, 110996.	2.7	9
9	Effect of Temperature on Luminescence of LiNbO ₃ Crystals Single-Doped with Sm ³⁺ , Tb ³⁺ , or Dy ³⁺ Ions. <i>Crystals</i> , 2020, 10, 1034.	1.0	18
10	Er ³⁺ ,Yb ³⁺ -doped oxyfluorotellurite glasses – Impact of temperature on spectroscopic properties and optical sensor qualities. <i>Journal of Non-Crystalline Solids</i> , 2020, 535, 119965.	1.5	21
11	Thermosensitive Tm ³⁺ /Yb ³⁺ co-doped oxyfluorotellurite glasses – spectroscopic and temperature sensor properties. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153753.	2.8	33
12	Down- and up-conversion of femtosecond light pulses into Pr ³⁺ luminescence in LiTaO ₃ :Pr ³⁺ single crystal. <i>Journal of Luminescence</i> , 2020, 224, 117294.	1.5	7
13	– Frozen – pressure effect in GGAG:Ce ³⁺ white light emitting nanoceramics. <i>Ceramics International</i> , 2019, 45, 21870-21877.	2.3	7
14	Effect of temperature on up-conversion phenomena in Gd ₃ (Al,Ga) ₅ O ₁₂ crystals co-doped with Yb ³⁺ and Tm ³⁺ . <i>Journal of Luminescence</i> , 2019, 216, 116721.	1.5	8
15	Contribution of energy transfer processes to excitation and relaxation of Yb ³⁺ ions in Gd ₃ (Al,Ga) ₅ O ₁₂ :RE ³⁺ , Yb ³⁺ (RE ³⁺ = Tm ³⁺ , Er ³⁺ , Ho ³⁺ , Pr ³⁺). <i>Journal of Luminescence</i> , 2019, 211, 54-61.	1.5	16
16	Impact of temperature on excitation, emission and cross-relaxation processes of terbium ions in GGAG single crystal. <i>Journal of Alloys and Compounds</i> , 2019, 789, 409-415.	2.8	6
17	Sm ³⁺ -doped oxyfluorotellurite glasses - spectroscopic, luminescence and temperature sensor properties. <i>Journal of Alloys and Compounds</i> , 2019, 788, 658-665.	2.8	43
18	Spectroscopic peculiarities of excitation and emission processes as well as relaxation dynamic of excited states in doubly and triply doped Gd ₃ Ga ₃ Al ₂ O ₁₂ :Ln ³⁺ (Ln ³⁺ =Eu ³⁺ , Tb ³⁺ , Ce ³⁺) crystals. <i>Optical Materials</i> , 2019, 88, 492-499.	1.7	10

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19	Manufacturing of Volumetric Glass-Based Composites with Single and Double QD Doping. Particle and Particle Systems Characterization, 2019, 36, 1800124.	1.2	5
20	Optical study of Tm-doped solid solution (Sc _{0.5} Y _{0.5}) ₂ SiO ₅ crystal. Journal of Crystal Growth, 2018, 487, 83-86.	0.7	6
21	Spectroscopic peculiarities of CsCa ₁₃ :Tm ²⁺ single crystals examined through one-photon and excited state excitation spectroscopy. Journal of Alloys and Compounds, 2018, 740, 1165-1171.	2.8	3
22	Oxyfluorotellurite glasses doped with neodymium and ytterbium – thermal and spectroscopic properties as well as energy transfer phenomena. Journal of Luminescence, 2018, 199, 310-318.	1.5	23
23	Influence of excitation wavelengths on up-converted luminescence sensing behavior of Er ³⁺ ions in lead-free germanate glass. Journal of Luminescence, 2018, 193, 34-38.	1.5	10
24	Optical spectra and excited state relaxation dynamics of Sm ²⁺ ions in SrCl ₂ , SrBr ₂ and SrI ₂ crystals. Journal of Luminescence, 2018, 195, 159-165.	1.5	10
25	Thermal and optical properties of oxyfluorotellurite glasses doped with europium ions. Journal of Alloys and Compounds, 2017, 704, 180-186.	2.8	20
26	Green and red up-conversion luminescence of Er ³⁺ in lead silicate glass under excitation of Yb ³⁺ . Proceedings of SPIE, 2017, , .	0.8	0
27	The crystallization kinetics of Er/Yb co-doped oxyfluoride glasses. Proceedings of SPIE, 2017, , .	0.8	2
28	Spectroscopic characterization of SrB ₄ O ₇ :Tm ²⁺ , a potential laser material and optical temperature sensor. RSC Advances, 2017, 7, 21085-21092.	1.7	14
29	Oxyfluoride silicate glasses and glass-ceramics doped with erbium and ytterbium - An examination of luminescence properties and up-conversion phenomena. Materials and Design, 2017, 126, 174-182.	3.3	10
30	Spectral and laser performance of a Tm ³⁺ :ScYSiO ₅ crystal. Journal of Alloys and Compounds, 2017, 712, 412-417.	2.8	8
31	Effect of temperature on optical properties and thermal conductivity of vanadate crystals doped with thulium and erbium. Journal of Alloys and Compounds, 2017, 710, 491-500.	2.8	1
32	Size Effect in Novel Red Efficient Garnet Nanophosphor. Journal of Physical Chemistry C, 2017, 121, 25561-25567.	1.5	18
33	Luminescence and energy transfer phenomena in Gd ₃ (Al,Ga) ₅ O ₁₂ crystals single doped with thulium and co-doped with thulium and holmium. Journal of Luminescence, 2017, 192, 77-84.	1.5	15
34	Intensities and spectral features of the ${}^4{}_{13/2} \rightarrow {}^4{}_{15/2}$ potential laser transition of Er ³⁺ centers in CaF ₂ :CeF ₃ disordered crystal. Chinese Physics B, 2017, 26, 114208.	0.7	1
35	Influence of temperature on up-conversion luminescence in Er ³⁺ /Yb ³⁺ doubly doped lead-free fluorogermanate glasses for optical sensing. Sensors and Actuators B: Chemical, 2017, 253, 85-91.	4.0	27
36	Europium and potassium co-doped strontium metaborate single crystals grown by the Czochralski method. Journal of Crystal Growth, 2017, 457, 107-111.	0.7	2

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37	Er ³⁺ /Yb ³⁺ co-doped lead silicate glasses and their optical temperature sensing ability. Optics Express, 2017, 25, 28501.	1.7	11
38	Spectroscopy and CW first laser operation of Yb-doped Gd ₃ (Al _{0.05} Ga _{0.05}) ₅ O ₁₂ crystal. Optical Materials Express, 2017, 7, 170.	1.6	19
39	Growth and spectroscopy of Gd ₃ Ga ₃ Al ₂ O ₁₂ (GGAG) and evidence of multisite positions of Sm ³⁺ ions in solid solution matrix. Journal of Alloys and Compounds, 2016, 689, 359-365.	2.8	16
40	Gd ₃ Ga ₃ Al ₂ O ₁₂ single crystal doped with dysprosium: Spectroscopic properties and luminescence characteristics. Journal of Alloys and Compounds, 2016, 689, 733-739.	2.8	19
41	Investigation of intrinsic and extrinsic defects in solid solution Gd ₃ (Al,Ga) ₅ O ₁₂ crystals grown by the Czochralski method. Journal of Alloys and Compounds, 2016, 688, 96-103.	2.8	12
42	Er ³⁺ /Yb ³⁺ co-doped lead germanate glasses for up-conversion luminescence temperature sensors. Sensors and Actuators A: Physical, 2016, 252, 54-58.	2.0	46
43	Optical spectra and crystal field calculation for SrB ₄ O ₇ :Sm ²⁺ . Journal of Alloys and Compounds, 2016, 661, 419-427.	2.8	18
44	Sensitive optical temperature sensor based on up-conversion luminescence spectra of Er ³⁺ ions in PbO-xGa ₂ O ₃ -xO ₂ (X=Ge, Si) glasses. Optical Materials, 2016, 59, 87-90.	1.7	38
45	The influence of Pr ³⁺ content on luminescence and optical behavior of TeO ₂ -WO ₃ -PbO-Lu ₂ O ₃ glass. Optical Materials, 2015, 47, 231-236.	1.7	20
46	Luminescence and energy transfer phenomena in YVO ₄ single crystal co-doped with Tm ³⁺ and Eu ³⁺ . Journal of Luminescence, 2015, 162, 134-139.	1.5	12
47	Oxyfluorotellurite glasses doped by dysprosium ions. Thermal and optical properties. Optical Materials, 2015, 42, 538-543.	1.7	20
48	Spontaneous and stimulated emission in Sm ³⁺ -doped YAl ₃ (BO ₃) ₄ single crystal. Journal of Luminescence, 2015, 167, 163-166.	1.5	7
49	Thermal analysis and near-infrared luminescence of Er ³⁺ -doped lead phosphate glasses modified by PbF ₂ . Journal of Luminescence, 2015, 160, 57-63.	1.5	17
50	Spectroscopic characterization of Sm ³⁺ in La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ single crystals. Journal of Alloys and Compounds, 2014, 610, 50-54.	2.8	21
51	Effect of temperature on excited state relaxation dynamics and up-conversion phenomena in La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ :Er ³⁺ single crystals. Journal of Alloys and Compounds, 2014, 610, 451-455.	2.8	6
52	Spectroscopic characterization of CaNb ₂ O ₆ single crystal doped with samarium ions. Journal of Luminescence, 2014, 151, 123-129.	1.5	13
53	Spectroscopic properties of the Pr ³⁺ ion in TeO ₂ -WO ₃ -PbO-La ₂ O ₃ and TeO ₂ -WO ₃ -PbO-Lu ₂ O ₃ glasses. Open Physics, 2014, 12, .	0.8	1
54	Optical study of La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ single crystal co-doped with Ho ³⁺ and Yb ³⁺ . Applied Physics B: Lasers and Optics, 2014, 116, 183-194.	1.1	22

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55	Effect of temperature on optical spectra and relaxation dynamics of Sm ³⁺ in Gd ₃ Ga ₅ O ₁₂ single crystals. <i>Journal of Alloys and Compounds</i> , 2014, 582, 208-212.	2.8	12
56	Crystal growth and spectroscopic properties of praseodymium and cerium co-doped Y ₂ SiO ₅ . <i>Journal of Luminescence</i> , 2014, 145, 547-552.	1.5	7
57	Spectroscopic characterization of Sm ³⁺ doped (Lu _{0.4} Gd _{0.6}) ₂ SiO ₅ single crystals. <i>Optical Materials</i> , 2014, 36, 740-745.	1.7	12
58	Spectral transformation of infrared ultrashort pulses in laser crystals. <i>Optical Materials</i> , 2014, 36, 1745-1748.	1.7	8
59	Spectral characteristics of visible luminescence in Gd ₂ SiO ₅ –Lu ₂ SiO ₅ (LGSO) solid solution crystals co-doped with Ce ³⁺ and Dy ³⁺ . <i>Optical Materials</i> , 2014, 37, 862-865.	1.7	5
60	Enhanced and Long-Lived Near-Infrared Luminescence of Er ³⁺ Ions in Lead Borate Glass–Ceramics Containing PbWO ₄ Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1685-1687.	1.9	3
61	Investigation of visible emission induced by infrared femtosecond pulses in erbium-doped YVO ₄ and LuVO ₄ single crystals. <i>Journal of Luminescence</i> , 2013, 144, 217-222.	1.5	3
62	Spectroscopic peculiarities of praseodymium impurities in Lu ₃ Al ₅ O ₁₂ single crystal. <i>Journal of Alloys and Compounds</i> , 2013, 550, 173-178.	2.8	13
63	Nd ³⁺ :CaF ₂ crystal with controlled photoluminescence spectroscopic properties by codoping Y ³⁺ ions. <i>Optical Materials</i> , 2013, 36, 455-457.	1.7	26
64	PbWO ₄ formation during controlled crystallization of lead borate glasses. <i>Ceramics International</i> , 2013, 39, 9151-9156.	2.3	8
65	Spectroscopic properties of Yb-doped CaF ₂ –YF ₃ solid-solution laser crystal. <i>Laser Physics</i> , 2013, 23, 105805.	0.6	15
66	Spectroscopy and laser operation of Ho:CaYAlO ₄ . <i>Optical Materials Express</i> , 2013, 3, 339.	1.6	16
67	Spectroscopic and laser properties of resonantly (in-band) pumped Er:YVO ₄ and Er:GdVO ₄ crystals: a comparative study. <i>Optical Materials Express</i> , 2012, 2, 1040.	1.6	20
68	Near-infrared photoluminescence spectra in Bi-doped CsI crystal: evidence for Bi-valence conversions and Bi ion aggregation. <i>Optical Materials Express</i> , 2012, 2, 757.	1.6	34
69	Spectroscopy and Calculations for 4f ^N → 4f ^{N-1} 5d Transitions of Lanthanide Ions in K ₃ YF ₆ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 9158-9180.	1.1	22
70	Optical properties of Nd ³⁺ and Er ³⁺ ions in TeO ₂ –WO ₃ –PbO–La ₂ O ₃ glasses. <i>Optical Materials</i> , 2012, 34, 2050-2054.	1.7	27
71	Luminescence quenching of Dy ³⁺ ions in lead bismuthate glasses. <i>Chemical Physics Letters</i> , 2012, 531, 114-118.	1.2	17
72	Growth conditions, structure, Raman characterization and optical properties of Sm-doped (Lu _x Gd _{1-x}) ₂ SiO ₅ single crystals grown by the Czochralski method. <i>Journal of Solid State Chemistry</i> , 2012, 186, 268-277.	1.4	25

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73	Near-infrared ultrabroadband luminescence spectra properties of subvalent bismuth in CsI halide crystals. Optics Letters, 2011, 36, 4551.	1.7	47
74	Optical spectra and excited state relaxation dynamics of Nd ³⁺ in CaF ₂ single crystal. Journal of Alloys and Compounds, 2011, 509, 8880-8884.	2.8	17
75	Spectroscopic properties of Yb ³⁺ and Er ³⁺ ions in heavy metal glasses. Journal of Alloys and Compounds, 2011, 509, 8088-8092.	2.8	45
76	Comparison of CW diode pumped Er:YVO ₄ and Er:GdVO ₄ lasers. , 2011, , .		0
77	Near-infrared luminescence and up-conversion processes of lanthanide ions in heavy metal glasses. Proceedings of SPIE, 2011, , .	0.8	1
78	Er-doped and Er, Yb co-doped oxyfluoride glasses and glass-ceramics, structural and optical properties. Optical Materials, 2011, 33, 1630-1637.	1.7	36
79	Thulium-doped vanadate crystals: Growth, spectroscopy and laser performance. Progress in Quantum Electronics, 2011, 35, 109-157.	3.5	46
80	Luminescence spectroscopy of rare earth-doped oxychloride lead borate glasses. Journal of Luminescence, 2011, 131, 649-652.	1.5	13
81	Structural Peculiarities, Energy Transfer and the Visible Emission in Gd ₂ SiO ₅ Single Crystal Doped with Pr ³⁺ , Sm ³⁺ and Dy ³⁺ . , 2011, , .		0
82	Laser spectroscopy of Nd ³⁺ and Dy ³⁺ ions in lead borate glasses. Optics and Laser Technology, 2010, 42, 805-809.	2.2	95
83	Optical spectroscopy of Er ³⁺ -doped LaVO ₄ crystal. Journal of Luminescence, 2010, 130, 131-136.	1.5	21
84	Spectroscopic properties of new luminescent system based on vanadate(V) crystal doped with erbium ions. Journal of Luminescence, 2010, 130, 567-575.	1.5	12
85	Thermal and radiative characteristics of oxyfluoride glass singly doped with lanthanide ions. Journal of Rare Earths, 2010, 28, 893-898.	2.5	11
86	Crystal structure and optical study of Tm:Sc ₂ SiO ₅ single crystal. Applied Physics Letters, 2010, 96, .	1.5	25
87	Spectral characterization and laser performance of a mixed crystal Nd:(Lu _x Y _{1-x}) ₃ Al ₅ O ₁₂ . Optics Express, 2010, 18, 21370.	1.7	23
88	Effect of temperature on spectroscopic features relevant to laser performance of YVO ₄ :Tm ³⁺ , GdVO ₄ :Tm ³⁺ , and LuVO ₄ :Tm ³⁺ crystals. Optics Letters, 2010, 35, 3940.	1.7	13
89	The Czochralski Growth of (Lu _x Gd _{1-x}) ₂ SiO ₅ :Dy Single Crystals: Structural, Optical, and Dielectric Characterization. Crystal Growth and Design, 2010, 10, 3522-3530.	1.4	40
90	Luminescence spectroscopy of Er ³⁺ -doped and Er ³⁺ , Yb ³⁺ -codoped LaPO ₄ single crystals. Journal of Luminescence, 2009, 129, 521-525.	1.5	31

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91	Infrared-to-visible conversion luminescence of Er ³⁺ ions in lead borate transparent glass-ceramics. <i>Optical Materials</i> , 2009, 31, 1781-1783.	1.7	5
92	Erbium-doped oxide and oxyhalide lead borate glasses for near-infrared broadband optical amplifiers. <i>Chemical Physics Letters</i> , 2009, 472, 217-219.	1.2	44
93	Effect of temperature on spectroscopic features relevant to laser performance of YVO ₄ :Er ³⁺ and GdVO ₄ :Er ³⁺ crystals. <i>Optics Letters</i> , 2009, 34, 3271.	1.7	14
94	Estimation of low-temperature spectra behavior in Nd-doped Sc ₂ SiO ₅ single crystal. <i>Optics Letters</i> , 2009, 34, 3481.	1.7	17
95	Near infrared and visible luminescence of U ³⁺ -doped PbCl ₂ single crystals. <i>Journal of Luminescence</i> , 2008, 128, 185-189.	1.5	7
96	Synthesis, optical spectra and radiative properties of Sm ₂ O ₃ :PbO:P ₂ O ₅ glass materials. <i>Optical Materials</i> , 2008, 30, 1571-1575.	1.7	43
97	Inter- and Intraconfigurational Transitions of Nd ³⁺ in Hexafluorocryolite-type K ₃ YF ₆ Lattice. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14196-14201.	1.5	9
98	Tunable lasers based on diode pumped Tm-doped vanadates Tm:YVO ₄ , Tm:GdVO ₄ , and Tm:LuVO ₄ . <i>Proceedings of SPIE</i> , 2008, , .	0.8	6
99	Unusual behavior of Tb ³⁺ in K ₃ YF ₆ green-emitting phosphor. <i>Optics Letters</i> , 2008, 33, 1786.	1.7	11
100	Tm-doped vanadates under pulsed pumping with variable duty-cycle: impact on lasing and fluorescence. , 2008, , .		1
101	Diode pumped Er:YVO ₄ microchip laser. , 2008, , .		0
102	Er-Doped Lead Borate Glasses and Transparent Glass Ceramics for Near-Infrared Luminescence and Up-Conversion Applications. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2427-2430.	1.2	66
103	Optical spectroscopy of U ³⁺ doped KPb ₂ Cl ₅ laser crystal. <i>Optical Materials</i> , 2007, 29, 1029-1034.	1.7	11
104	Luminescence of K ₅ Li ₂ CeF ₁₀ and K ₅ Li ₂ LaF ₁₀ :Ce ³⁺ . <i>Journal of Luminescence</i> , 2007, 122-123, 44-46.	1.5	1
105	Conversion of VUV to visible light and the structure of the 5d levels in K ₅ Li ₂ LaF ₁₀ :Tb. <i>Optical Materials</i> , 2007, 30, 146-148.	1.7	8
106	Crystal structure and vibrational properties of new luminescent hosts K ₃ YF ₆ and K ₃ GdF ₆ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 3145-3150.	1.4	28
107	Room temperature fluorescence and excited state dynamics in the near infrared and visible region of U ³⁺ doped LaBr ₃ single crystals. <i>Solid State Communications</i> , 2006, 137, 59-62.	0.9	7
108	Erratum to "Room temperature fluorescence and excited state dynamics in the near infrared and visible region of U ³⁺ doped LaBr ₃ single crystals". <i>Solid State Communications</i> , 2006, 137, 678-679.	0.9	0

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109	<title>Pr-doped lead fluoroborate glasses</title>. , 2006, 6347, 362.		0
110	Optical properties of Eu ³⁺ :CsGd ₂ F ₇ downconversion phosphor. Journal of Luminescence, 2005, 114, 65-70.	1.5	22
111	Structural role of rare earth ions in lead borate glasses evidenced by infrared spectroscopy: BO ³⁺ BO ₄ conversion. Journal of Molecular Structure, 2005, 744-747, 515-520.	1.8	52
112	Electronic Structure of U ³⁺ in Cs ₃ Lu ₂ Cl ₉ and Cs ₃ Y ₂ I ₉ Single Crystals. Journal of Physical Chemistry B, 2005, 109, 155-166.	1.2	11
113	Effect of erbium concentration on physical properties of fluorindate glass. Chemical Physics Letters, 2003, 380, 604-608.	1.2	40
114	<title>Judd-Ofelt analysis and emission properties of Eu ³⁺ ions in fluorindate glasses</title>. , 2003, 5028, 225.		1
115	<title>Some properties of InF ₃ -based fluoride glasses doped with Tm ³⁺ and Tm ³⁺ -Tb ³⁺ ions</title>. , 2003, 5028, 181.		0
116	Europium(II) Complexes With Benzo-18-Crown-6. European Journal of Inorganic Chemistry, 2002, 2002, 2344-2347.	1.0	15
117	<title>Stokes and anti-Stokes luminescence in LiTaO ₃ :Ho</title>. , 2001, , .		0
118	<title>Relaxation dynamics of excited states of Er ³⁺ in YVO ₄ single crystals</title>. , 2001, , .		2
119	Growth and optical properties of chromium-doped LaGaO ₃ crystal. , 1999, , .		0
120	Optical absorption and luminescence of LiTaO ₃ :Cr and LiTaO ₃ :Cr,Nd crystals. , 1999, 3724, 270.		2
121	Analysis of broadband near-infrared emission in ABCO ₄ and ABC ₃ O ₇ crystals (A=Sr, Ba; B=La, Gd;) Tj ETQq1 1 0.784314 rgBT /Over		1
122	Growth and characterization of new disordered crystals for the design of all solid state lasers. , 1996, 2780, 371.		1
123	<title>Crystal growth and characterization of rare-earth-doped gallates of alkaline earth and lanthanum</title>. , 1991, , .		0