

# Polina A Ryabochkina

## List of Publications by Year in descending order

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papers

952  
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#	ARTICLE	IF	CITATIONS
1	Calcium niobium gallium and calcium lithium niobium gallium garnets doped with rare earth ions – effective laser media. <i>Optical Materials</i> , 2002, 20, 197-209.	1.7	90
2	Structure and conductivity of yttria and scandia-doped zirconia crystals grown by skull melting. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5536-5547.	1.9	37
3	Two-micron lasing on diode-pumped $Y_2O_3$ : Tm ceramics. <i>Quantum Electronics</i> , 2016, 46, 597-600.	0.3	29
4	Investigation of the mechanisms of upconversion luminescence in $Ho^{3+}$ doped $CaF_2$ crystals and ceramics upon excitation of 5I7 level. <i>Journal of Luminescence</i> , 2015, 167, 120-125.	1.5	28
5	Hypersensitive transitions of $Tm^{3+}$ , $Ho^{3+}$ and $Dy^{3+}$ rare-earth ions in garnet crystals. <i>Journal of Luminescence</i> , 2012, 132, 1900-1905.	1.5	27
6	Investigation of endovenous laser ablation of varicose veins in vitro using 1.885- $\mu$ m laser radiation. <i>Lasers in Medical Science</i> , 2016, 31, 503-510.	1.0	27
7	Visualiser of two-micron laser radiation based on $Ho:CaF_2$ crystals. <i>Quantum Electronics</i> , 2014, 44, 602-605.	0.3	24
8	Spectroscopic, luminescent and laser properties of nanostructured $CaF_2:Tm$ materials. <i>Optical Materials</i> , 2013, 35, 1859-1864.	1.7	23
9	Intensity of the f-f transitions of $Nd^{3+}$ , $Er^{3+}$ , and $Tm^{3+}$ rare-earth ions in calcium niobium gallium garnet crystals. <i>Physics of the Solid State</i> , 2008, 50, 1611-1618.	0.2	22
10	Nanostructured $Tm:CaF_2$ ceramics: potential gain media for two micron lasers. <i>Quantum Electronics</i> , 2011, 41, 193-197.	0.3	21
11	Features of the local structure and transport properties of $ZrO_2-Y_2O_3-Eu_2O_3$ solid solutions. <i>Journal of Alloys and Compounds</i> , 2019, 770, 320-326.	2.8	19
12	The impact of structural changes in $ZrO_2-Y_2O_3$ solid solution crystals grown by directional crystallization of the melt on their transport characteristics. <i>Materials Letters</i> , 2017, 205, 186-189.	1.3	18
13	Upconversion luminescence of $Ca_{1-x}Ho_xF_{2+x}$ and $Sr_{0.98-x}Er_{0.02}Ho_xF_{2.02+x}$ powders upon excitation by an infrared laser. <i>Laser Physics Letters</i> , 2017, 14, 076003.	0.6	18
14	Infrared-to-visible upconversion luminescence in $SrF_2:Er$ powders upon excitation of the $^4I_{13/2}$ level. <i>Optical Materials Express</i> , 2018, 8, 1863.	1.6	17
15	Intensities of hypersensitive transitions in garnet crystals doped with $Er^{3+}$ ions. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2011, 110, 910-916.	0.2	16
16	Structural, spectral-luminescent, and lasing properties of nanostructured $Tm:CaF_2$ ceramics. <i>Quantum Electronics</i> , 2012, 42, 853-857.	0.3	16
17	Preparation and properties of methylcellulose/nanocellulose/ $\beta$ - $\beta$ - $\beta$ polymer-inorganic composite films for two-micron radiation visualizers. <i>Journal of Fluorine Chemistry</i> , 2017, 202, 9-18.	0.9	16
18	Spectroscopy of optical centers of $Eu^{3+}$ ions in partially stabilized and stabilized zirconium crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 122, 580-587.	0.2	16

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19	Melt growth, structure and properties of $(\text{ZrO}_2)_{1-x}(\text{Sc}_2\text{O}_3)_x$ solid solution crystals ( $x=0.035\text{--}0.11$ ). Journal of Crystal Growth, 2016, 443, 54-61.	0.7	15
20	Phase composition, structure and properties of $(\text{ZrO}_2)_{1-x}(\text{Sc}_2\text{O}_3)_x(\text{Y}_2\text{O}_3)_y$ solid solution crystals ( $x=0.08\text{--}0.11$ ; $y=0.01\text{--}0.02$ ) grown by directional crystallization of the melt. Journal of Crystal Growth, 2017, 457, 122-127.	0.7	15
21	Anisotropy of the mechanical properties and features of the tetragonal to monoclinic transition in partially stabilized zirconia crystals. Journal of Alloys and Compounds, 2019, 792, 1255-1260.	2.8	14
22	Growth, refined structural and spectroscopic characteristics of $\text{Tm}^{3+}$ -doped $\text{NaGd}(\text{WO}_4)_2$ single crystals. Journal of Crystal Growth, 2009, 311, 4171-4178.	0.7	13
23	Tunable quasi-cw two-micron lasing in diode-pumped crystals of mixed $\text{Tm}^{3+}$ -doped sodium $\text{La}^{3+}$ lanthanum $\text{Gd}^{3+}$ gadolinium molybdates and tungstates. Quantum Electronics, 2010, 40, 847-850.	0.3	13
24	Broadband white radiation in $\text{Yb}^{3+}$ - and $\text{Er}^{3+}$ -doped nanocrystalline powders of yttrium orthophosphates irradiated by 972-nm laser radiation. JETP Letters, 2016, 103, 302-308.	0.4	13
25	Upconversion Luminescence of Fluoride Phosphors $\text{SrF}_2:\text{Er}, \text{Yb}$ under Laser Excitation at $1.5\ \mu\text{m}$ . Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2018, 125, 537-542.	0.2	13
26	Structure and transport properties of zirconia crystals co-doped by scandia, ceria and yttria. Journal of Materiomics, 2019, 5, 273-279.	2.8	13
27	Broadband emission from Er-contained yttrium orthophosphate and orthovanadate nanopowders excited by near infrared radiation. Journal of Luminescence, 2019, 205, 560-567.	1.5	13
28	Mechanical characteristics, structure, and phase stability of tetragonal crystals of $\text{ZrO}_2\text{--Y}_2\text{O}_3$ solid solutions doped with cerium and neodymium oxides. Journal of Physics and Chemistry of Solids, 2021, 150, 109808.	1.9	13
29	Calcium $\text{La}^{3+}$ niobium $\text{Gd}^{3+}$ gallium and calcium $\text{La}^{3+}$ lithium $\text{La}^{3+}$ niobium $\text{Gd}^{3+}$ gallium garnet crystals as active media for diode-pumped lasers. Quantum Electronics, 2001, 31, 531-533.	0.3	11
30	Intensity parameters for $\text{Er}^{3+}$ ions in calcium-niobium-gallium garnet crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2007, 102, 722-727.	0.2	11
31	Synthesis, spectroscopic and luminescent properties of nanosized powders of yttrium phosphates doped with $\text{Er}^{3+}$ ions. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	11
32	Optimization of endovenous laser coagulation: in vivo experiments. Lasers in Medical Science, 2020, 35, 867-875.	1.0	11
33	Nanostructured crystals of partially yttria-stabilized and $\text{Nd}^{3+}$ doped zirconia: Structure and luminescent properties. Journal of Alloys and Compounds, 2015, 621, 295-300.	2.8	10
34	Mechanisms and absolute quantum yield of upconversion luminescence of fluoride phosphors. Chinese Optics Letters, 2018, 16, 091901.	1.3	10
35	Absorption and luminescence characteristics of $5I_7\text{--}5I_8$ transitions of the holmium ion in $\text{Ho}^{3+}$ -doped aluminosilicate preforms and fibres. Quantum Electronics, 2015, 45, 102-104.	0.3	9
36	Diode-pumped $\text{LiY}_{0.3}\text{Lu}_{0.7}\text{F}_4:\text{Pr}$ and $\text{LiYF}_4:\text{Pr}$ red lasers. Laser Physics Letters, 2016, 13, 125801.	0.6	9

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37	Features of the interaction of near-infrared laser radiation with Yb-doped dielectric nanoparticles. JETP Letters, 2016, 103, 743-751.	0.4	9
38	Phase composition and local structure of scandia and yttria stabilized zirconia solid solution. Journal of Luminescence, 2020, 222, 117170.	1.5	9
39	Exploring the potential of Pr <sup>3+</sup> :LiY <sub>0.3</sub> Lu <sub>0.7</sub> F <sub>4</sub> mixed crystal for diode-pumped watt-level continuous-wave lasers in the visible region. Optics and Laser Technology, 2022, 151, 108023.	2.2	9
40	Spectroscopic properties of erbium-doped yttria-stabilised zirconia crystals. Quantum Electronics, 2014, 44, 135-137.	0.3	8
41	Tunable 2-mm lasing in calcium niobium gallium garnet crystals doped with Ho <sup>3+</sup> ions. Quantum Electronics, 2017, 47, 607-609.	0.3	8
42	Synthesis and spectral-luminescent properties of La <sub>1-x</sub> Pr <sub>x</sub> Ga <sub>0.5</sub> Sb <sub>1.5</sub> O <sub>6</sub> solid solutions. Ceramics International, 2019, 45, 16886-16892.	2.3	8
43	Interaction of Tm <sup>3+</sup> ions in calcium-niobium-gallium and yttrium-aluminum garnet laser crystals. Quantum Electronics, 1993, 23, 958-961.	0.3	7
44	Interaction of Er <sup>3+</sup> ions in Er-doped calcium niobium gallium garnet crystals. Quantum Electronics, 2010, 40, 377-380.	0.3	7
45	Two-micron lasing in NaLa <sub>1/2</sub> Gd <sub>1/2</sub> (WO <sub>4</sub> ) <sub>2</sub> crystals doped with Tm <sup>3+</sup> ions. Quantum Electronics, 2010, 40, 101-102.	0.3	7
46	Spectral, luminescent, and lasing properties of ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -Tm <sub>2</sub> O <sub>3</sub> crystals. Quantum Electronics, 2012, 42, 580-582.	0.3	7
47	Spectroscopic characteristics of the Nd <sup>3+</sup> ions in garnet crystals. Journal of Luminescence, 2012, 132, 240-243.	1.5	7
48	Spectroscopic properties of Nd <sup>3+</sup> doped NaLa <sub>0.5</sub> Gd <sub>0.5</sub> (WO <sub>4</sub> ) <sub>2</sub> crystals. Journal of Luminescence, 2013, 138, 32-38.	1.5	7
49	Lasing characteristics of ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -Ho <sub>2</sub> O <sub>3</sub> crystal. Quantum Electronics, 2013, 43, 838-840.	0.3	7
50	CW and Q-switched 2-μm solid-state laser on ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -Ho <sub>2</sub> O <sub>3</sub> crystals pumped by a Tm fiber laser. Laser Physics, 2018, 28, 035803.	0.6	7
51	Ionic conductivity, phase composition, and local defect structure of ZrO <sub>2</sub> -Gd <sub>2</sub> O <sub>3</sub> system solid solution crystals. Journal of Solid State Electrochemistry, 2019, 23, 2619-2626.	1.2	7
52	Upconversion luminescence of CaF <sub>2</sub> -SrF <sub>2</sub> -ErF <sub>3</sub> single crystals upon 1.5 μm laser excitation. Journal of Physics: Conference Series, 2019, 1410, 012086.	0.3	7
53	Thermal Conductivity of Cubic ZrO <sub>2</sub> Single Crystals Stabilized with Yttrium Oxide. Physics of the Solid State, 2020, 62, 235-239.	0.2	7
54	Structural features and distribution coefficients of Pr <sup>3+</sup> , Y <sup>3+</sup> and Lu <sup>3+</sup> ions in LiY <sub>1-x</sub> Lu <sub>x</sub> F <sub>4</sub> mixture crystals. Journal of Alloys and Compounds, 2017, 720, 1-7.	2.8	6

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55	Mechanical properties and transformation hardening mechanism in yttria, ceria, neodymia and ytterbia co-doped zirconia based solid solutions. <i>Materials Chemistry and Physics</i> , 2019, 232, 28-33.	2.0	6
56	Blackbody emission from CaF <sub>2</sub> and ZrO <sub>2</sub> nanosized dielectric particles doped with Er <sup>3+</sup> ions. <i>RSC Advances</i> , 2020, 10, 26288-26297.	1.7	6
57	Structure and phase transformations in scandia, yttria, ytterbia and ceria-doped zirconia-based solid solutions during directional melt crystallization. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156040.	2.8	6
58	Cw and Q-switched Nd:NaLa(MoO <sub>4</sub> ) <sub>2</sub> laser noncritical to the temperature drift of the diode pump laser wavelength. <i>Quantum Electronics</i> , 2010, 40, 475-478.	0.3	5
59	Structure and spectral-luminescence properties of yttrium-stabilized zirconia crystals activated with Tm <sup>3+</sup> ions. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 112, 594-600.	0.2	5
60	Structure, phase composition, and spectral-luminescent properties of ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -Er <sub>2</sub> O <sub>3</sub> crystals. <i>Physics of the Solid State</i> , 2015, 57, 1579-1587.	0.2	5
61	Tunable 2 $\mu$ m ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -Ho <sub>2</sub> O <sub>3</sub> solid-state laser. <i>Laser Physics Letters</i> , 2017, 14, 055807.	0.6	5
62	Synthesis and Luminescent Properties of Nanocrystalline (1 - $\tilde{N}$ ...)ZrO <sub>2</sub> - $\tilde{N}$ ...Er <sub>2</sub> O <sub>3</sub> ( $\tilde{N}$ ... = 0.015-0.5) Solid Solutions. <i>Russian Journal of Inorganic Chemistry</i> , 2020, 65, 1298-1303.	0.3	5
63	Synthesis and photoluminescence properties of novel LaGa <sub>0.5</sub> Sb <sub>1.5</sub> O <sub>6</sub> : Eu <sup>3+</sup> , Dy <sup>3+</sup> , Tb <sup>3+</sup> and BiGeSbO <sub>6</sub> : Eu <sup>3+</sup> , Dy <sup>3+</sup> , Tb <sup>3+</sup> phosphors. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161175.	2.8	5
64	Lasing and spectroscopic properties of calcium-niobium-gallium garnet crystals doped with Tm <sup>3+</sup> ions. <i>Quantum Electronics</i> , 1993, 23, 309-311.	0.3	4
65	Growth, optical parameters, and spectroscopic properties of crystals of disordered scheelite-like molybdates NaLa <sub>x</sub> Gd <sup>1-x</sup> (MoO <sub>4</sub> ) <sub>2</sub> (x = 0-1) activated by Tm <sup>3+</sup> ions. <i>Optics and Spectroscopy (English)</i> Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50 2	0.784314	4
66	Phase composition and spectral-luminescent properties of yttrium partially stabilized zirconia crystals doped with Nd <sub>2</sub> O <sub>3</sub> and CeO <sub>2</sub> . <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	0.784314	4
67	Specific Features of the Local Structure and Transport Properties of ZrO <sub>2</sub> -Sc <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> -Sc <sub>2</sub> O <sub>3</sub> -Yb <sub>2</sub> O <sub>3</sub> Crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> Tj ETQq1 1 0.784314 rgBT/Overlock 10	0.784314	4
68	Effect of heat treatment on the structure and mechanical properties of partially gadolinia-stabilized zirconia crystals. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 559-569.	1.0	4
69	Influence of saturable absorber parameters on the operation regimes of a dumbbell-shaped thulium fibre laser. <i>Quantum Electronics</i> , 2021, 51, 518-524.	0.3	4
70	Morphological changes of veins and perivenous tissues during endovenous laser coagulation using 2-1/4m laser radiation and various types of optical fibers. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2022, 10, 749-757.	0.9	4
71	Spectral and laser properties of Tm-doped calcium-niobium-gallium garnets. , 2007, , .		3
72	Cooperative processes in Cs <sub>2</sub> NaYbF <sub>6</sub> elpasolite crystals. <i>Journal of Luminescence</i> , 2014, 153, 125-129.	1.5	3

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73	Spectroscopy of optical centers of Eu <sup>3+</sup> ions in ZrO <sub>2</sub> -Gd <sub>2</sub> O <sub>3</sub> -Eu <sub>2</sub> O <sub>3</sub> crystals. Journal of Luminescence, 2018, 200, 66-73.	1.5	3
74	Structural characteristics of melt-grown (ZrO <sub>2</sub> ) <sub>0.99</sub> -(Sc <sub>2</sub> O <sub>3</sub> ) (Yb <sub>2</sub> O <sub>3</sub> ) <sub>0.01</sub> solid solution crystals and their effect on ionic conductivity. Journal of Crystal Growth, 2020, 547, 125808.	0.7	3
75	Nonradiative energy transfer of electronic excitation between Tm <sup>3+</sup> ions in Y <sub>2</sub> O <sub>3</sub> :Tm laser ceramics. Optical Materials, 2020, 101, 109762.	1.7	3
76	Spatial anomalies in spectral-kinetic properties of Pr <sup>3+</sup> - Doped LiY <sub>1-x</sub> Lu <sub>x</sub> F <sub>4</sub> mixed crystals. Journal of Luminescence, 2020, 222, 117172.	1.5	3
77	Comparative study of luminescent properties of Bi <sub>1-x</sub> Pr <sub>x</sub> GeSbO <sub>6</sub> and La <sub>1-x</sub> Pr <sub>x</sub> Ga <sub>0.5</sub> Sb <sub>1-5</sub> O <sub>6</sub> (x = 0-0.5) solid solutions with rosiite structures. Journal of Luminescence, 2021, 232, 117869.	1.5	3
78	Vein wall changes after 1910 nm laser coagulation with bare-fiber and radial fiber. Flebologiya, 2021, 15, 154.	0.2	3
79	Optimization of the endovenous laser coagulation using two-micron laser radiation. , 2020, , .		3
80	Lasing on the <sup>4</sup> I <sub>13/2</sub> → <sup>4</sup> I <sub>15/2</sub> transition of Er <sup>3+</sup> ions in ZrO <sub>2</sub> ·Y <sub>2</sub> O <sub>3</sub> crystals under resonant diode pumping into the <sup>4</sup> I <sub>13/2</sub> level. Quantum Electronics, 2016, 46, 451-452.	0.3	2
81	Anisotropy of mechanical properties and hardening mechanism in ZrO <sub>2</sub> ·Y <sub>2</sub> O <sub>3</sub> solid solution crystals. Modern Electronic Materials, 2017, 3, 142-147.	0.2	2
82	Comparison of Structural and Transport Properties of Zirconia Single-Crystals Stabilized by Yttria and Gadolinia. ECS Transactions, 2019, 91, 1173-1183.	0.3	2
83	Comparison of mechanical properties of zirconia crystals partially stabilized with yttria and gadolinia. Journal of Physics: Conference Series, 2019, 1347, 012059.	0.3	2
84	Influence of growth and heat treatment conditions on lasing properties of ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -Ho <sub>2</sub> O <sub>3</sub> crystals. Optical Materials, 2020, 99, 109611.	1.7	2
85	Mechanisms of Upconversion Luminescence in BaF <sub>2</sub> ·HoF <sub>3</sub> Crystals under Excitation to the 5I <sub>5</sub> Level of Ho <sup>3+</sup> Ions. Inorganic Materials, 2020, 56, 1033-1038.	0.2	2
86	Characteristics of Upconversion Luminescence of CaF <sub>2</sub> :Er Powders Excited by 1.5-μm Laser Radiation. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2020, 128, 200-206.	0.2	2
87	Effect of the ionic radius of stabilizing oxide cation on the local structure and transport properties of zirconia based solid solutions. Journal of Alloys and Compounds, 2021, 870, 159396.	2.8	2
88	Effect of Heat Treatment on the Thermal Conductivity of Single Crystals of ZrO <sub>2</sub> -Based Solid Solutions Stabilized with Scandium and Yttrium Oxides. Physics of the Solid State, 2020, 62, 2357-2364.	0.2	2
89	Structure and transport characteristics of single crystals of zirconia stabilized by scandia and co-doped with terbium oxide. Solid State Ionics, 2022, 375, 115836.	1.3	2
90	Single crystal solid state electrolytes based on yttria, ytterbia and gadolinia doped zirconia. Materials Chemistry and Physics, 2022, 277, 125499.	2.0	2

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91	Modelling the population processes of the energy levels of Tm <sup>3+</sup> ions in yttrium-aluminum garnet and calcium-niobium-gallium garnet crystals doped with Tm <sup>3+</sup> ions under steady-state pumping. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2006, 73, 51.	0.2	1
92	The study of spectroscopic and luminescence properties of disordered laser crystals calcium niobium gallium garnet doped with Er <sup>3+</sup> . , 2008, , .		1
93	Structure, phase composition, and spectral luminescence properties of partially stabilized zirconium dioxide crystals doped with Yb <sup>3+</sup> ions. Physics of the Solid State, 2016, 58, 1308-1313.	0.2	1
94	Tunable upconversion luminescence of SrF <sub>2</sub> : Er,Tm phosphors. Journal of Physics: Conference Series, 2019, 1410, 012121.	0.3	1
95	Effect of the Phase Composition and Local Crystal Structure on the Transport Properties of the ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> -Gd <sub>2</sub> O <sub>3</sub> Solid Solutions. Russian Microelectronics, 2019, 48, 523-530.	0.1	1
96	Effect of recovery time of nonlinear absorber saturated losses on the soliton pulse structure in a fibre laser with different cavity lengths. Quantum Electronics, 2019, 49, 819-823.	0.3	1
97	Melt grown ZrO <sub>2</sub> single crystals partially stabilized with Gd <sub>2</sub> O <sub>3</sub> : Phase composition and indentation induced transformations. Journal of Crystal Growth, 2020, 535, 125546.	0.7	1
98	Phase Stability and Transport Properties of (ZrO <sub>2</sub> ) <sub>0.91-<math>x</math></sub> (Sc <sub>2</sub> O <sub>3</sub> ) <sub>0.09</sub> (Yb <sub>2</sub> O <sub>3</sub> ) <sub><math>x</math></sub> Crystals ( $x = 0-0.01$ ). Crystals, 2021, 11, 83.	1.0	1
99	Influence of phase composition and local crystal structure on the transport properties of ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> -Gd <sub>2</sub> O <sub>3</sub> solid solutions. Izvestiya Vysshikh Uchebnykh Zavedenii Materialy Elektronnoi Tekhniki = Materials of Electronics Engineering, 2019, 21, 156-165.	0.1	1
100	Influence of saturable absorber saturation power, modulation depth and relaxation time on pulse parameters of a soliton fibre laser. Quantum Electronics, 2020, 50, 419-424.	0.3	1
101	Dual-wavelength Soliton Dumbbell-shaped Thulium-doped Fiber Laser. , 2020, , .		1
102	<title>The study of processes of nonradiative energy transfer between ions Yb <sup>3+</sup> and Tm <sup>3+</sup> in aluminosilicate fibers</title>. , 2007, , .		0
103	Optical, spectroscopic and luminescent properties of Tm <sup>3+</sup> -doped NaLaGd(MoO <sub>4</sub> ) <sub>2</sub> and NaLa(MoO <sub>4</sub> ) <sub>2</sub> crystals. , 2009, , .		0
104	Structure and spectral-luminescent properties of nanostructured CaF <sub>2</sub> -Tm <sub>3</sub> ceramics a potential active medium for 2 $\mu$ m lasers. , 2011, , .		0
105	Spectroscopic, luminescent and laser properties of Tm <sup>3+</sup> -doped mixed NaLaGd tungstates and molybdates. , 2011, , .		0
106	Spectroscopic studies of a tetragonal $\leftrightarrow$ monoclinic phase transition in ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> -Nd <sub>2</sub> O <sub>3</sub> crystals. Physics of the Solid State, 2015, 57, 1984-1990.	0.2	0
107	Effect of initial precursor concentration on the spectral-luminescent characteristics and cytotoxicity of carbon nanoparticles. Biomedical Physics and Engineering Express, 2019, 5, 025017.	0.6	0
108	Development of efficient polymer films with upconversion particles. Journal of Physics: Conference Series, 2019, 1410, 012154.	0.3	0

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109	Lasing characteristics of ZrO <sub>2</sub> â€“ Y <sub>2</sub> O <sub>3</sub> â€“ Ho <sub>2</sub> O <sub>3</sub> crystals pumped by a Tm : LiYF <sub>4</sub> laser. Quantum Electronics, 2020, 50, 727-729.	0.3	0
110	Q-switched lasing in ZrO <sub>2</sub> â€“ Y <sub>2</sub> O <sub>3</sub> â€“ Ho <sub>2</sub> O <sub>3</sub> crystals. Quantum Electronics, 2021, 51, 586-592.	0.3	0
111	Ce,Pr:LiY <sub>1-x</sub> Lu <sub>x</sub> F <sub>4</sub> mixed crystals as perspective active media for UV lasing. , 2018, , .		0
112	Vein Wall Changes After Laser Coagulation with Different Parameters. Flebologiya, 2019, 13, 190.	0.2	0
113	The soliton mode-lock fiber laser pulse energy dependence from saturable absorber parameters. , 2020, , .		0
114	Comparison of the results of endovenous laser coagulation (EVLC) using 2-1¼m radiation and various types of fiber. , 2020, , .		0