Olga S Dymshits

List of Publications by Year
in descending order

80 papers	1,295 citations	304743 22 h-index	434195 31 g-index
80 all docs	80 docs citations	80 times ranked	779 citing authors

#	Article	IF	Citations
1	Optical applications of glass-ceramics. Journal of Non-Crystalline Solids, 2010, 356, 3042-3058.	3.1	66
2	Cobalt-doped transparent glass ceramic as a saturable absorber Q switch for erbium:glass lasers. Applied Optics, 2001, 40, 4322.	2.1	65
3	Linear and nonlinear optical properties of cobalt-doped zinc aluminum glass ceramics. Journal of Applied Physics, 2003, 93, 3827-3831.	2.5	49
4	Synthesis, characterization and absorption saturation of Co:ZnAl2O4 (gahnite) transparent ceramic and glass-ceramics: A comparative study. Journal of Alloys and Compounds, 2017, 725, 998-1005.	5.5	37
5	Magnesium- and zinc-aluminosilicate cobalt-doped glass ceramics as saturable absorbers for diode-pumped 13-Î¼m laser. Applied Optics, 2004, 43, 682.	2.1	36
6	Structural states of Ni(II) in glasses and glass-ceramic materials of the lithium-aluminium-silicate system. Journal of Non-Crystalline Solids, 1991, 127, 44-52.	3.1	35
7	Absorption, emission and absorption saturation of Cr4+ ions in calcium aluminate glass. Journal of Non-Crystalline Solids, 2005, 351, 3551-3555.	3.1	34
8	Transparent glassâ€"ceramics with (Eu3+,Yb3+):YNbO4 nanocrystals: Crystallization, structure, optical spectroscopy and cooperative upconversion. Journal of Luminescence, 2016, 179, 64-73.	3.1	34
9	Low-frequency Raman scattering of magnesium aluminosilicate glasses and glass-ceramics. Journal of Non-Crystalline Solids, 2001, 282, 306-316.	3.1	33
10	On the Phase Separation and Crystallization of Glasses in the MgOâ€"Al2O3â€"SiO2â€"TiO2 System. Glass Physics and Chemistry, 2003, 29, 254-266.	0.7	32
11	Small-angle X-ray scattering and low-frequency Raman scattering study of liquid phase separation and crystallization in titania-containing glasses of the ZnOâ€"Al2O3â€"SiO2 System. Journal of Non-Crystalline Solids, 2005, 351, 711-721.	3.1	30
12	Nanosized glass-ceramics doped with transition metal ions: nonlinear spectroscopy and possible laser applications. Journal of Alloys and Compounds, 2002, 341, 247-250.	5.5	29
13	Raman spectroscopy quantifying the composition of stuffed Î²-quartz derivative phases in lithium aluminosilicate glass-ceramics. Journal of Non-Crystalline Solids, 2008, 354, 4932-4939.	3.1	29
14	Influence of CoO addition on phase separation and crystallization of glasses of the ZnOâ€"Al2O3â€"SiO2â€"TiO2 system. Journal of Non-Crystalline Solids, 2011, 357, 3928-3939.	3.1	27
15	Saturable absorber: transparent glass-ceramics based on a mixture of Co:Î²-Zn_2SiO_4 and Co:ZnO nanocrystals. Applied Optics, 2016, 55, 5505.	2.1	27
16	The Influence of Nickel Oxide Additives on the Phase Separation and Crystallization of Glasses in the MgOâ€"Al2O3â€"SiO2â€"TiO2System. Glass Physics and Chemistry, 2004, 30, 300-310.	0.7	25
17	Influence of NiO on phase transformations and optical properties of ZnOâ€"Al2O3â€"SiO2 glass-ceramics nucleated by TiO2 and ZrO2. Part I. Influence of NiO on phase transformations of ZnOâ€"Al2O3â€"SiO2 glass-ceramics nucleated by TiO2 and ZrO2. Journal of Non-Crystalline Solids, 2014, 384, 73-82.	3.1	25
18	Structure and nonlinear optical properties of novel transparent glass-ceramics based on Co²⁺:ZnO nanocrystals. Laser Physics Letters, 2016, 13, 055803.	1.4	25

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19	Structural transformations and spectroscopic properties of Ni-doped magnesium aluminosilicate glass-ceramics nucleated by a mixture of TiO2 and ZrO2 for broadband near-IR light emission. Journal of Alloys and Compounds, 2019, 780, 137-146.	5.5	25
20	Title is missing!. Glass Physics and Chemistry, 2002, 28, 66-78.	0.7	24
21	Structural transformations and optical properties of glass-ceramics based on ZnO, Î²- and Î±-Zn2SiO4 nanocrystals and doped with Er2O3 and Yb2O3: Part I. The role of heat-treatment. Journal of Luminescence, 2018, 202, 47-56.	3.1	24
22	Light scattering in glass-ceramics: revision of the concept. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1717.	2.1	24
23	Stimulated emission of Co2+-doped glassâ€“ceramics. Journal of Non-Crystalline Solids, 2007, 353, 2408-2414.	3.1	22
24	Influence of NiO on phase transformations and optical properties of ZnOâ€“Al2O3â€“SiO2 glassâ€“ceramics nucleated by TiO2 and ZrO2. Part II. Optical absorption and luminescence. Journal of Non-Crystalline Solids, 2013, 376, 99-105.	3.1	22
25	The structure of luminescence centers of neodymium in glasses and transparent glass-ceramics of the Li2O-Al2O3-SiO2 system. Journal of Non-Crystalline Solids, 1996, 196, 67-72.	3.1	21
26	Spectroscopic and X-ray Diffraction Investigations into the Specific Features of Crystallization of Potassium Niobium Silicate Glasses. Glass Physics and Chemistry, 2004, 30, 311-320.	0.7	21
27	Influence of various alkali and divalent metal oxides on phase transformations in NiO-doped glasses of the Li2Oâ€“Al2O3â€“SiO2â€“TiO2 system. Journal of Non-Crystalline Solids, 2011, 357, 2209-2214.	3.1	21
28	Microstructure, doping and optical properties of Co2+:ZnAl2O4 transparent ceramics for saturable absorbers: Effect of the ZnF2 sintering additive. Journal of Alloys and Compounds, 2020, 829, 154514.	5.5	21
29	Raman spectroscopy study of phase transformations in titania-containing lithium aluminosilicate glasses doped with CoO. Journal of Non-Crystalline Solids, 2005, 351, 2969-2978.	3.1	20
30	Glass-ceramics with<i>Î³</i>-Ga₂O₃:Co²⁺nanocrystals: saturable absorber for 1.5â€“1.7â€‰<i>Î¼</i>m Er lasers. Laser Physics Letters, 2015, 12, 035803.	1.4	20
31	Structure and upconversion luminescence of transparent glass-ceramics containing (Er,Yb)2(Ti,Zr)2O7 nanocrystals. Journal of Non-Crystalline Solids, 2015, 409, 54-62.	3.1	20
32	Formation and Passive Q-Switch Performance of Glass-Ceramics Containing Co²⁺-Doped Spinel Nanocrystals. Advanced Materials Research, 0, 39-40, 219-224.	0.3	19
33	Structural evolution of Ni environment in lithium, magnesium and zinc aluminosilicate glasses and glass-ceramics. Journal of Non-Crystalline Solids, 2015, 413, 24-33.	3.1	19
34	Structural characteristics and spectral properties of novel transparent lithium aluminosilicate glass-ceramics containing (Er,Yb)NbO4 nanocrystals. Journal of Luminescence, 2015, 160, 337-345.	3.1	19
35	Structural states of Co(II) in Î²-eucryptite-based glass-ceramics nucleated with ZrO2. Journal of Non-Crystalline Solids, 1996, 204, 151-157.	3.1	18
36	Structural transformations of nanometer sized crystals in CoO-doped Î²-eucryptite-based glass-ceramics. Journal of Non-Crystalline Solids, 1999, 258, 216-222.	3.1	18

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37	Transparent glassâ€“ceramics based on ZnO and ZnO:Co^2+ nanocrystals. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2014, 81, 723.	0.4	16
38	Crystallization and nonlinear optical properties of transparent glass-ceramics with Co:Mg(Al,Ga)2O4 nanocrystals for saturable absorbers of lasers at 1.6â€“1.7 Âµm. Journal of Physics and Chemistry of Solids, 2017, 103, 132-141.	4.0	16
39	Synthesis, structure and spectroscopy of Fe2+:MgAl2O4 transparent ceramics and glass-ceramics. Journal of Luminescence, 2021, 236, 118090.	3.1	14
40	Effect of yttrium oxide on the crystallization of glasses of the MgOâ€“Al_2O_3â€“SiO_2 system, nucleated by a mix of titanium and zirconium dioxides, and the transparency of glass--crystalline materials in the superhigh-frequency spectral region. Journal of Optical Technology (A Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	12
41	Compact 0.7 mJ/11 ns eye-safe erbium laser. Laser Physics, 2016, 26, 125801.	1.2	12
42	Low-frequency Raman scattering and small-angle X-ray scattering of glasses inclined to phase decomposition. Journal of Non-Crystalline Solids, 1999, 243, 244-250.	3.1	11
43	Crystallization of Glasses in the K2Oâ€“Nb2O5â€“SiO2System. Glass Physics and Chemistry, 2001, 27, 504-511.	0.7	11
44	The influence of NiO on phase separation and crystallization of glasses of the MgOâ€“Al2O3â€“SiO2â€“TiO2 system. Journal of Non-Crystalline Solids, 2004, 345-346, 187-191.	3.1	11
45	Photoluminescence of transparent glass-ceramics based on ZnO nanocrystals and co-doped with Eu3+, Yb3+ ions. Optical Materials, 2016, 62, 666-672.	3.6	11
46	Effect of low NiO doping on anomalous light scattering in zinc aluminosilicate glass-ceramics. Journal of Non-Crystalline Solids, 2017, 473, 152-169.	3.1	11
47	Passive Q-switching of erbium glass laser by magnesium aluminosilicate sitall with cobalt ions. Journal of Applied Spectroscopy, 2007, 74, 140-146.	0.7	10
48	Anomalously Low Light Scattering in the Na₂O-Nb₂O₅-SiO₂ Glass-Ceramics. Advanced Materials Research, 2008, 39-40, 273-276.	0.3	10
49	Features of the anomalous scattering of light in two-phase sodium borosilicate glass. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2013, 80, 706.	0.4	10
50	Anomalies in light scattering by glassâ€“ceramics of the zinc aluminum silicate system, caused by low nickel oxide doping. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2014, 81, 729.	0.4	10
51	On the measurements of scattering coefficient of nanostructured glass-ceramics by a serial spectrophotometer. Measurement: Journal of the International Measurement Confederation, 2017, 95, 306-316.	5.0	10
52	Transparent materials based on semiconducting ZnO: glass-ceramics and optical ceramics doped with rare-earth and transition-metal ions. Journal of Non-Crystalline Solids, 2022, 588, 121625.	3.1	10
53	Phase Separation and Crystallization in Glasses of the Na2Oâ€“K2Oâ€“Nb2O5â€“SiO2 System. Glass Physics and Chemistry, 2003, 29, 243-253.	0.7	9
54	Synthesis and spectroluminescence properties of lithium aluminosilicate glassâ€“ceramics containing Er_xY b_2?xTi_2O_7 nanocrystals. Journal of Optical Technology (A Translation of Opticheskii) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57	0.4	9

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55	In situ evolution of Ni environment in magnesium aluminosilicate glasses and glassâ€“ceramicsâ€“Influence of ZrO2 and TiO2 nucleating agents. Journal of Physics and Chemistry of Solids, 2015, 78, 137-146.	4.0	9
56	Structural transformations and spectroluminescence properties of magnesium aluminosilicate glassâ€“ceramics containing Er_xY b_2-x(Ti,Zr)_2O_7 nanocrystals. Journal of Optical Technology (A) Tj ETQq0 0 0 rg BT /Overlock 10 Tf	0.4	8
57	Influence of reducing-oxidizing conditions on the optical properties of Co^2+-doped magnesium aluminosilicate glass ceramics and their use as an effective saturable absorber Q switch. Applied Optics, 2004, 43, 6011.	2.1	6
58	Phase transformations in glass of the MgOâ€“Al2O3â€“SiO2â€“TiO2 system doped with yttrium oxide. Glass Physics and Chemistry, 2015, 41, 597-606.	0.7	6
59	Luminescence of transparent glass ceramics containing Er3+ and Yb3+ zirconate-titanate nanocrystals. Journal of Applied Spectroscopy, 2011, 78, 650-658.	0.7	5
60	Passively<i>Q</i>-switched 1.6<i>Âµ</i>m Er:YAG laser with a<i>Î³</i>-Ga₂O₃:Co-based glass-ceramics as a saturable absorber. Laser Physics Letters, 2018, 15, 045004.	1.4	5
61	Saturable absorption properties at 1.54 <i>Âµ</i>m of Cr²⁺:ZnS prepared by thermal diffusion at hot isostatic pressing. Laser Physics Letters, 2019, 16, 065801.	1.4	5
62	ZnO â€“ Yb2O3 composite optical ceramics: Synthesis, structure and spectral-luminescent properties. Journal of the European Ceramic Society, 2022, 42, 616-630.	5.7	5
63	Spectroscopic properties of magnesium aluminosilicate glass-ceramics doped with divalent cobalt ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2002, 93, 559-566.	0.6	4
64	Features of the phase transformations in titanium-containing zinc aluminosilicate glasses doped with cobalt oxide. Glass Physics and Chemistry, 2013, 39, 113-123.	0.7	4
65	Transparent glass-ceramics based on Co2+-doped Î³-GaxAl2â^’xO3 spinel nanocrystals for passive Q-switching of Er lasers. Journal of Luminescence, 2021, 234, 117993.	3.1	4
66	Raman-scattering results on transformations in finely divided titanium dioxide. Journal of Applied Spectroscopy, 1989, 50, 593-598.	0.7	3
67	The crystallization of glasses of the MgOâ€“Al_2O_3â€“SiO_2â€“TiO_2â€“ZrO_2â€“Y_2O_3 system and the nature of a new yttrium-containing crystalline phase. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rg BT /Overlo	0.7	3
68	Linear and non-linear optical properties of transparent glass-ceramics based on Co2+-doped Zn(Al,Ga)2O4 spinel nanocrystals. Journal of Non-Crystalline Solids, 2021, 557, 120627.	3.1	3
69	1 mJ single-rod fiber Er:glass laser for rangefinding. Proceedings of SPIE, 2015, , .	0.8	2
70	Use of induction furnaces with a cold crucible for melting hard glasses (review). Glass and Ceramics (English Translation of Steklo I Keramika), 1986, 43, 391-396.	0.6	1
71	New Co-containing glass ceramics saturable absorbers for 1.5-Î¼m solid state lasers. , 2001, 4350, 106.		1
72	Nonlinear absorption properties of new cobalt-doped transparent glass ceramics. , 2002, 4751, 326.		1

#	Article	IF	Citations
73	Optical properties of transparent cobalt-containing magnesium aluminosilicate glass-ceramics doped with gallium oxide for saturable absorbers. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rg BT /Overl	0.6	1
74	Optical properties of new saturable absorbers for 1.3 - 1.6 mcm lasers. , 0, , .		0
75	Diode-pumped 1.35-micron Nd:KGd(WO/sub 4/)/sub 2/ laser passively Q-switched with cobalt-doped glass ceramics. , 0, , .		0
76	Stimulated emission from co-doped zinc-aluminosilicate glass ceramics. , 0, , .		0
77	Luminescence of erbium ions in transparent glass-ceramics containing (Er,Yb)NbO<inf>4</inf> nanocrystals. , 2014, , .		0
78	Glass-ceramics with Co²⁺:ZnO nanocrystals: Novel saturatable absorber for Er lasers. , 2016, , .		0
79	Glass-ceramics with Co²⁺:Mg(Al,Ga)₂O₄ nanocrystals: novel saturable absorber for compact erbium lasers. Proceedings of SPIE, 2017, , .	0.8	0
80	In the memory of Professor Sergei V. Nemilov (1939â€“2020). International Journal of Applied Glass Science, 2021, 12, 187-188.	2.0	0