

Alexander M Malyarevich

List of Publications by Year in descending order

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106
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107
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107
docs citations

107
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1203
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic Characterization of Er ³⁺ :LiKYF5: Judd-Ofelt Analysis and Emission Cross Sections. , 2018, , .		0
2	Glass-ceramics with Co ²⁺ :Mg(Al,Ga) ₂ O ₄ nanocrystals: novel saturable absorber for compact erbium lasers. Proceedings of SPIE, 2017, , .	0.8	0
3	Crystallization and nonlinear optical properties of transparent glass-ceramics with Co:Mg(Al,Ga) ₂ O ₄ nanocrystals for saturable absorbers of lasers at 1.6–1.7 μm. Journal of Physics and Chemistry of Solids, 2017, 103, 132-141.	4.0	16
4	Passive Q-switching of an Er, Yb:glass laser with Co:Mg(Al,Ga) ₂ O ₄ -based glass-ceramics. Applied Optics, 2017, 56, 2142.	2.1	16
5	Structure and nonlinear optical properties of novel transparent glass-ceramics based on Co ²⁺ :ZnO nanocrystals. Laser Physics Letters, 2016, 13, 055803.	1.4	25
6	Glass-ceramics with Co ²⁺ :ZnO nanocrystals: Novel saturable absorber for Er lasers. , 2016, , .		0
7	Synthesis, structure and Q-switching behaviour of transparent glass-ceramics based on a mixture of Co:ZnO and Co:Li(Al, Ga) ₅ O ₈ nanocrystals. , 2016, , .		0
8	Saturable absorber: transparent glass-ceramics based on a mixture of Co:ZnO and Co:Li(Al, Ga) ₅ O ₈ nanocrystals. Applied Optics, 2016, 55, 5505.	2.1	27
9	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 rgBT / Overlock 10 Tf 50 57)	0.784314	1
10	Novel transparent glass-ceramics based on Co:Li(Al, Ga) ₅ O ₈ nanocrystals for passive Q-switching of Er lasers. , 2016, , .		0
11	DEVICE FOR MEASUREMENT OF RELAXATION TIME OF THE BLEACHED STATE OF OPTICAL MATERIALS BY THE «PUMP-PROBE» METHOD IN SUB-ns TIME DOMAIN. Priborny I Metody Izmerenij, 2016, 7, 24-31.	0.3	1
12	Ho:KLu(WO ₄) ₂ Microchip Laser Q-Switched by a PbS Quantum-Dot-Doped Glass. IEEE Photonics Technology Letters, 2015, 27, 1795-1798.	2.5	5
13	Glass-ceramics with Ho:Ga ₂ O ₃ :Co ²⁺ nanocrystals: saturable absorber for 1.5–1.7 μm Er lasers. Laser Physics Letters, 2015, 12, 035803.	1.4	20
14	Inband-Pumped Ho:KLu(WO ₄) ₂ Microchip Laser Q-switched with a PbS-Quantum-Dot-Doped Glass. , 2015, , .		0
15	Structural characteristics and spectral properties of novel transparent lithium aluminosilicate glass-ceramics containing (Er,Yb)NbO ₄ nanocrystals. Journal of Luminescence, 2015, 160, 337-345.	3.1	19
16	Structure and upconversion luminescence of transparent glass-ceramics containing (Er,Yb) ₂ (Ti,Zr) ₂ O ₇ nanocrystals. Journal of Non-Crystalline Solids, 2015, 409, 54-62.	3.1	20
17	Structural transformations and spectroluminescence properties of magnesium aluminosilicate glass-ceramics containing Er _x Y _{b-2x} (Ti,Zr) ₂ O ₇ nanocrystals. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 57	0.784314	1
18	Synthesis and spectroluminescence properties of lithium aluminosilicate glass-ceramics containing Er _x Y _{b-2x} (Ti,Zr) ₂ O ₇ nanocrystals. Journal of Optical Technology (A Translation of Opticheskii) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 57	0	0

#	ARTICLE	IF	CITATIONS
19	Compact passively Q-switched diode-pumped Tm:KY(WO ₄) ₂ laser with 8 ns/30/LJ pulses. Laser Physics Letters, 2012, 9, 291-294.	1.4	27
20	Luminescence of transparent glass ceramics containing Er ³⁺ and Yb ³⁺ zirconate-titanate nanocrystals. Journal of Applied Spectroscopy, 2011, 78, 650-658.	0.7	5
21	Compact Tm:KYW laser passively Q-switched with a PbS-quantum dot-based saturable absorber. , 2011, , .		0
22	Exciton relaxation in PbS quantum dots. Physica Status Solidi - Rapid Research Letters, 2010, 4, 341-343.	2.4	5
23	Passive mode locking of diode-pumped Tm:KYW laser with PbS quantum-dot-doped glass. Laser Physics Letters, 2010, 7, 286-289.	1.4	45
24	Spatially-temporal dynamics of a passively Q-switched Raman-active solid-state oscillator. Optics Communications, 2010, 283, 1854-1858.	2.1	2
25	Optical applications of glass-ceramics. Journal of Non-Crystalline Solids, 2010, 356, 3042-3058.	3.1	66
26	Temperature-dependent photoluminescence of PbS quantum dots in glass: Evidence of exciton state splitting and carrier trapping. Physical Review B, 2010, 82, .	3.2	111
27	Saturable absorbers based on tetrahedrally coordinated transition-metal ions in crystals (Review). Journal of Applied Spectroscopy, 2009, 76, 1-43.	0.7	23
28	Passive mode locking of 209 μ m Cr,Tm,Ho:Y ₃ Sc ₂ Al ₃ O ₁₂ laser using PbS quantum-dot-doped glass. Optics Letters, 2009, 34, 3403.	3.3	37
29	Passive mode-locking of a Ho:YSAG laser with PbS-quantum dot-doped glass. , 2009, , .		0
30	OPTICAL WAVEGUIDES IN GLASSES DOPED WITH LEAD SULFIDE QUANTUM DOTS. , 2009, , .		0
31	Diode-pumped Tm:KY(WO ₄) ₂ laser passively Q-switched with \hat{A} PbS-doped glass. Applied Physics B: Lasers and Optics, 2008, 93, 787-791.	2.2	36
32	Fluorophosphate glasses doped with PbSe quantum dots and their nonlinear optical characteristics. Glass Physics and Chemistry, 2008, 34, 351-355.	0.7	12
33	Semiconductor-doped glass saturable absorbers for near-infrared solid-state lasers. Journal of Applied Physics, 2008, 103, .	2.5	54
34	Erbium-glass slab laser with transverse diode pumping. Journal of Optical Technology (A Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.4	8
35	Passive Q-switching of diode-pumped Tm:KY(WO ₄) ₂ laser with PbS-doped glass and Cr:ZnSe crystal. , 2007, , .		2
36	Passive Q-switching of diode pumped Nd:KGd(WO ₄) ₂ lasers by V ³⁺ :Y ₃ Al ₅ O ₁₂ crystal with anisotropy of nonlinear absorption. Applied Optics, 2007, 46, 5732.	2.1	6

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37	Stimulated emission of Co ²⁺ -doped glass-ceramics. Journal of Non-Crystalline Solids, 2007, 353, 2408-2414.	3.1	22
38	Nonlinear optical properties of PbS quantum dots in boro-silicate glass. Journal of Non-Crystalline Solids, 2007, 353, 1195-1200.	3.1	35
39	Anisotropy of nonlinear absorption in Co ²⁺ :MgAl ₂ O ₄ crystal. Applied Physics B: Lasers and Optics, 2007, 88, 443-447.	2.2	26
40	Passive Q-switching of erbium glass laser by magnesium aluminosilicate siall with cobalt ions. Journal of Applied Spectroscopy, 2007, 74, 140-146.	0.7	10
41	Nonlinear bleachable media for the near IR range based on lead chalcogenide quantum dots (review). Journal of Applied Spectroscopy, 2007, 74, 773-801.	0.7	2
42	RELAXATION PROCESSES IN LEAD SULFIDE QUANTUM DOTS. , 2007, , .		0
43	PbS quantum-dot-doped glass for efficient passive mode locking in a CW Yb : KYW laser. IEEE Photonics Technology Letters, 2006, 18, 259-261.	2.5	20
44	Nanostructured glass-crystal materials with lead sulfide for passive Q switching of IR lasers. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2006, 73, 576.	0.4	21
45	Stimulated emission of Co ²⁺ ions in transparent glass-ceramics. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT ₀ /Overl	0.4	0
46	Holmium lasers passively Q-switched with PbS quantum-dot-doped glasses. Applied Optics, 2006, 45, 536.	2.1	18
47	Saturation of absorption by lead sulfide nanoparticles in the main absorption band region. Journal of Applied Spectroscopy, 2006, 73, 216-221.	0.7	3
48	Nd:KGd(WO ₄) ₂ laser at 1.35 μ m passively Q-switched with V ³⁺ :YAG crystal and PbS-doped glass. Optical Materials, 2006, 28, 919-924.	3.6	13
49	Nonlinear spectroscopy of PbS quantum-dot-doped glasses as saturable absorbers for the mode locking of solid-state lasers. Journal of Applied Physics, 2006, 100, 023108.	2.5	23
50	<title>Passive <emph type="1">Q</emph>-switching of 2- μ m holmium lasers with PbS-quantum dot-doped glass</title>. , 2005, 6054, 16.		1
51	<title>Lead sulfide quantum dots for mode-locking and Q-switching of near IR lasers</title>. , 2005, , .		1
52	Intensity-dependent bleaching relaxation in lead salt quantum dots. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1660.	2.1	21
53	Absorption, emission and absorption saturation of Cr ⁴⁺ ions in calcium aluminate glass. Journal of Non-Crystalline Solids, 2005, 351, 3551-3555.	3.1	34
54	PbSe quantum-dot-doped phosphate glasses as material for saturable absorbers for 1- to 3- μ m spectral region. , 2004, , .		2

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55	Glasses with Lead Sulfide Nanoparticles for Laser Technologies. Glass and Ceramics (English) Tj ETQq1 1 0.784314 0.6 BT /Overlock 10	0.6	7
56	Relaxation of Bleaching in Lead Sulfide Nanoparticles at Different Pump Powers. Journal of Applied Spectroscopy, 2004, 71, 83-88.	0.7	12
57	Experiment and modeling of a diode-pumped 1.3 μ m Nd:YVO ₄ laser passively Q-switched with PbS-doped glass. Applied Physics B: Lasers and Optics, 2004, 79, 315-319.	2.2	13
58	Passive mode locking of a Cr ⁴⁺ :YAG laser by PbS quantum-dot-doped glass saturable absorber. Optics Communications, 2004, 241, 449-454.	2.1	37
59	Magnesium- and zinc-aluminosilicate cobalt-doped glass ceramics as saturable absorbers for diode-pumped 1.3 μ m laser. Applied Optics, 2004, 43, 682.	2.1	36
60	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
61	Intensity dependent bleaching relaxation in PbS quantum dots. , 2004, , .		0
62	Diode-pumped Nd:YVO ₄ and Nd:KGd(WO ₄) ₂ 1.3 μ m lasers passively Q-switched with PbS-doped glass. Applied Physics B: Lasers and Optics, 2003, 76, 253-256.	2.2	18
63	Study of the optical absorption and luminescence of transparent aluminosilicate glass-crystal materials with a CoO additive. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2003, 70, 864.	0.4	4
64	Linear and nonlinear optical properties of cobalt-doped zinc aluminum glass ceramics. Journal of Applied Physics, 2003, 93, 3827-3831.	2.5	49
65	Ultrafast exciton recombination in PbS quantum dots. , 2003, , .		1
66	PbS-doped phosphate glasses saturable absorbers for 1.3 μ m neodymium lasers. , 2003, 4829, 113.		0
67	Nonlinear absorption properties of new cobalt-doped transparent glass ceramics. , 2002, 4751, 326.		1
68	Nonlinear optical properties of PbS and PbSe quantum dots in glassy matrices. , 2002, 4748, 375.		3
69	Glass doped with PbS quantum dots as a saturable absorber for 1.3 μ m neodymium lasers. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 28.	2.1	51
70	Optical absorption and luminescence study of cobalt-doped magnesium aluminosilicate glass ceramics. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1815.	2.1	30
71	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
72	PbS-doped phosphate glasses saturable absorbers for 1.3 μ m neodymium lasers. Applied Physics B: Lasers and Optics, 2002, 75, 841-846.	2.2	41

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73	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
74	Passively Q-switched Ho ³⁺ :Y ₃ Al ₅ O ₁₂ laser using a PbSe-doped glass. Applied Physics Letters, 2001, 78, 572-573.	3.3	28
75	Cobalt-doped transparent glass ceramic as a saturable absorber Q switch for erbium:glass lasers. Applied Optics, 2001, 40, 4322.	2.1	65
76	Passive Q-switch operation of PbSe-doped glass at 2.1 μm . , 2001, 4350, 32.		3
77	PbS(Se) Quantum Dot Doped Glass Applications as Laser Passive Q-Switches. Physica Status Solidi (B): Basic Research, 2001, 224, 253-256.	1.5	23
78	New Co-containing glass ceramics saturable absorbers for 1.5- μm solid state lasers. , 2001, 4350, 106.		1
79	Optical transient bleaching and induced absorption of surface-oxidized CuFeS nanoparticles. Applied Physics B: Lasers and Optics, 2000, 70, 111-116.	2.2	10
80	Glass doped with PbS quantum dots for passive Q switching of a 154- μm laser. Applied Optics, 2000, 39, 4345.	2.1	35
81	Nonlinear optical properties of Cu _x S and CuInS ₂ nanoparticles in sol-gel glasses. Journal of Applied Physics, 2000, 87, 212-216.	2.5	43
82	Nonlinear optical properties of novel phosphate glasses doped with CdSe quantum dots. , 1999, , .		0
83	<title>Ultrafast optical processes in new Cu-Fe-S nanoparticles</title>. , 1999, , .		3
84	Optical transient bleaching of photochromic polytungstic acid. Chemical Physics Letters, 1998, 288, 567-575.	2.6	16
85	V:YAG - a new passive Q-switch for diode-pumped solid-state lasers. Applied Physics B: Lasers and Optics, 1998, 67, 555-558.	2.2	154
86	Nonlinear spectroscopy of photocoloured polytungstic acid nanocomposites. Quantum Electronics, 1998, 28, 710-714.	1.0	4
87	Nonlinear spectroscopy of phosphate glasses containing cadmium selenide nanoparticles. Quantum Electronics, 1998, 28, 715-718.	1.0	2
88	Nonlinear spectroscopy of oxidised CuInS ₂ nanocrystals. Quantum Electronics, 1998, 28, 69-72.	1.0	0
89	Nonlinear optical properties of oxidised CuS nanocrystals. Quantum Electronics, 1997, 27, 722-726.	1.0	1
90	Excited state absorption of Cr ⁴⁺ ion in forsterite. Applied Physics Letters, 1997, 70, 2523-2525.	3.3	15

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91	Differential absorption measurements of Cr ⁴⁺ -doped forsterite under picosecond excitation. , 1997, , .		0
92	Transient bleaching/induced absorption in reduced SrTiO ₃ under picosecond excitation. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 415.	2.1	5
93	Optical transient bleaching/absorption of surface-oxidized CuInS ₂ nanocrystals. Applied Physics B: Lasers and Optics, 1997, 65, 545-548.	2.2	22
94	Optical transient bleaching and induced absorption of surface-modified copper sulfide nanocrystals. Applied Physics B: Lasers and Optics, 1996, 64, 73-78.	2.2	28
95	Phase transitions in vibrational spectra of crystals of the triglycine sulfate family. Journal of Applied Spectroscopy, 1996, 63, 865-871.	0.7	1
96	Picosecond spectroscopy of thermostained strontium titanate crystals. Journal of Applied Spectroscopy, 1996, 63, 656-663.	0.7	0
97	The assignment of lattice vibrations in triglycine sulfate-type crystals. Journal of Molecular Structure, 1996, 375, 43-51.	3.6	3
98	Ultrafast dynamics of excited-state absorption in V ³⁺ :YAG crystal. Journal of Applied Physics, 1996, 80, 4782-4784.	2.5	39
99	Kinetics of nonlinear absorption in a reduced strontium titanate single crystal under picosecond excitation conditions. Quantum Electronics, 1996, 26, 471-475.	1.0	0
100	Excited-state absorption in an yttrium aluminium garnet crystal doped with V ³⁺ ions. Quantum Electronics, 1996, 26, 970-973.	1.0	4
101	Raman spectroscopy study of hydrogen bonds and vibrations of the triglycine sulfate crystal lattice. Journal of Applied Spectroscopy, 1993, 59, 832-836.	0.7	5
102	Optical properties of new saturable absorbers for 1.3 - 1.6 μm lasers. , 0, , .		0
103	Diode-pumped 1.35-micron Nd:KGd(WO ₄) ₂ laser passively Q-switched with cobalt-doped glass ceramics. , 0, , .		0
104	PbS quantum-dot-doped glass as saturable absorber for passive mode-locking of a Cr ⁴⁺ :YAG laser. , 0, , .		0
105	Diode-pumped Nd:YVO ₄ 1.3 μm laser passively Q-switched with the PbS-doped glass. , 0, , .		0
106	Stimulated emission from co-doped zinc-aluminosilicate glass ceramics. , 0, , .		0