

Alexandr V Popov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Growth and spectroscopic investigations of Yb ³⁺ -doped NaGd(MoO ₄) ₂ and NaLa(MoO ₄) ₂ new promising laser crystals. <i>Optical Materials</i> , 2006, 29, 246-252.	3.6	79
2	Phase composition and morphology of nanoparticles of yttrium orthophosphates synthesized by microwave-hydrothermal treatment: The influence of synthetic conditions. <i>Journal of Alloys and Compounds</i> , 2015, 639, 415-421.	5.5	39
3	An energy transfer kinetic probe for OH-quenchers in the Nd ³⁺ :YPO ₄ nanocrystals suitable for imaging in the biological tissue transparency window. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26806-26815.	2.8	28
4	Fluctuation kinetics of fluorescence hopping quenching in the Nd ³⁺ :Y ₂ O ₃ spherical nanoparticles. <i>Journal of Luminescence</i> , 2013, 139, 91-97.	3.1	25
5	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.	0.6	22
6	Comparison of concentration dependence of relative fluorescence quantum yield and brightness in first biological window of wavelengths for aqueous colloidal solutions of Nd ³⁺ : LaF ₃ and Nd ³⁺ : KY ₃ F ₁₀ nanocrystals synthesized by microwave-hydrothermal treatment. <i>Journal of Alloys and Compounds</i> , 2018, 756, 182-192.	5.5	20
7	Lasing properties of sodium gadolinium tungstate NaGd(WO ₄) ₂ crystals doped with Tm ³⁺ ions. <i>Quantum Electronics</i> , 2006, 36, 515-516.	1.0	18
8	Diode-pumped cw Tm ³⁺ :YAlO ₃ laser. <i>Quantum Electronics</i> , 2005, 35, 511-514.	1.0	17
9	Fluorescence quenching mechanism for water-dispersible Nd ³⁺ :KYF ₄ nanoparticles synthesized by microwave-hydrothermal technique. <i>Journal of Luminescence</i> , 2016, 169, 722-727.	3.1	17
10	Vacuum ultraviolet spectroscopic analysis of Ce ³⁺ -doped hexagonal YPO ₄ ·0.8H ₂ O based on exchange charge model. <i>Journal of Luminescence</i> , 2014, 152, 70-74.	3.1	15
11	Concentration self-quenching of luminescence in crystal matrices activated by Nd ³⁺ ions: Theory and experiment. <i>Journal of Luminescence</i> , 2018, 198, 138-145.	3.1	15
12	Growth and spectroscopic studies of NaLa(MoO ₄) ₂ :Tm ³⁺ crystals: A new promising laser material. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2008, 105, 538-546.	0.6	14
13	Growth, refined structural and spectroscopic characteristics of Tm ³⁺ -doped NaGd(WO ₄) ₂ single crystals. <i>Journal of Crystal Growth</i> , 2009, 311, 4171-4178.	1.5	13
14	Barium borate glass and transparent glass ceramics doped with Pb ₄ Lu ₂ YbF ₁₇ . <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2009, 107, 347-352.	0.6	12
15	Yb ³⁺ ion in calcium niobium gallium garnet crystals: Nearest neighbor environment and optical spectra. <i>Inorganic Materials</i> , 2006, 42, 1133-1137.	0.8	11
16	Synthesis and luminescence of ultrafine Er ³⁺ - and Yb ³⁺ -doped Gd ₁₁ Si ₃ O ₂₆ and Gd ₁₄ B ₆ Ge ₂ O ₃₄ particles for cancer diagnostics. <i>Inorganic Materials</i> , 2013, 49, 76-81.	0.8	11
17	Spectroscopy of Yb ³⁺ in Cubic ZrO ₂ Crystals. <i>Inorganic Materials</i> , 2004, 40, 502-508.	0.8	8
18	Luminescent properties of Yb ³⁺ -doped hexagonal Ln ₃ BWO ₉ (Ln = Gd, Y). <i>Inorganic Materials</i> , 2010, 46, 900-905.	0.8	7

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19	Synthesis and glass formation in the BaO-B ₂ O ₃ -BaCl ₂ system. Inorganic Materials, 2010, 46, 1391-1395.	0.8	7
20	Interaction of Er ³⁺ ions in Er-doped calcium niobium gallium garnet crystals. Quantum Electronics, 2010, 40, 377-380.	1.0	7
21	Synthesis and spectroscopy of sodium-gadolinium tungstate NaGd(WO ₄) ₂ crystals activated by Tm ³⁺ ions. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2006, 100, 602-608.	0.6	6
22	Spectroscopic studies of glasses based on rare-earth borates. Glass Physics and Chemistry, 2006, 32, 47-51.	0.7	6
23	Nanosecond fluctuation kinetics of luminescence hopping quenching originated from the 5d ₁ level in the Ce ³⁺ :YPO ₄ ·0.8H ₂ O nanocrystals. Journal of Luminescence, 2014, 145, 774-778.	3.1	6
24	Synthesis of IR phosphors based on germanatoborate Gd ₁₄ Ge ₂ B ₆ O ₃₄ . Russian Journal of Inorganic Chemistry, 2016, 61, 142-148.	1.3	5
25	Stable Aqueous Colloidal Solutions of Nd ³⁺ : LaF ₃ Nanoparticles, Promising for Luminescent Bioimaging in the Near-Infrared Spectral Range. Nanomaterials, 2021, 11, 2847.	4.1	5
26	Spectroscopy and Structure of Nd ³⁺ Activator Centers in Stabilized Cubic ZrO ₂ . Inorganic Materials, 2005, 41, 836-839.	0.8	4
27	Spectroscopy of NaLa(MoO ₄) ₂ : Tm ³⁺ and NaGd(MoO ₄) ₂ : Tm ³⁺ crystals as advanced laser materials. Physics of the Solid State, 2008, 50, 1605-1610.	0.6	4
28	Growth, optical parameters, and spectroscopic properties of crystals of disordered scheelite-like molybdates NaLa _x Gd _{1-x} (MoO ₄) ₂ (x = 0-1) activated by Tm ³⁺ ions. Optics and Spectroscopy (English) Tj ETQ 0 0 0 rgBT /Overlo	0.6	4
29	Spectroscopy of nanoparticles based on Gd ₁₄ B ₆ Ge ₂ O ₃₄ polycrystals and La ₂ O ₃ :B ₂ O ₃ glasses, activated by Nd ³⁺ ions, for cancer diagnostics. Quantum Electronics, 2011, 40, 1094-1097.	1.0	4
30	Spectral and laser properties of Tm-doped calcium-niobium-gallium garnets. , 2007, , .		3
31	<title>Glasses based on borates of rare-earth elements, doped with Yb</title>. , 2004, , .		1
32	<title>Spectroscopy Yb³⁺ in yttria-stabilized cubic zirconia crystals</title>. , 2004, , .		0
33	Optical, spectroscopic and luminescent properties of Tm³⁺-doped NaLaGd(MoO₄)₂ and NaLa(MoO₄)₂ crystals. , 2009, , .		0