

# Alexandr V Popov

## List of Publications by Year in descending order

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33  
papers

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687363

13  
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752698

20  
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docs citations

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422  
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#	ARTICLE	IF	CITATIONS
1	Stable Aqueous Colloidal Solutions of Nd <sup>3+</sup> : LaF <sub>3</sub> Nanoparticles, Promising for Luminescent Bioimaging in the Near-Infrared Spectral Range. <i>Nanomaterials</i> , 2021, 11, 2847.	4.1	5
2	Concentration self-quenching of luminescence in crystal matrices activated by Nd <sup>3+</sup> ions: Theory and experiment. <i>Journal of Luminescence</i> , 2018, 198, 138-145.	3.1	15
3	Comparison of concentration dependence of relative fluorescence quantum yield and brightness in first biological window of wavelengths for aqueous colloidal solutions of Nd <sup>3+</sup> : LaF <sub>3</sub> and Nd <sup>3+</sup> : KY <sub>3</sub> F <sub>10</sub> nanocrystals synthesized by microwave-hydrothermal treatment. <i>Journal of Alloys and Compounds</i> , 2018, 756, 182-192.	5.5	20
4	Synthesis of IR phosphors based on germanatoborate Gd <sub>14</sub> Ge <sub>2</sub> B <sub>6</sub> O <sub>34</sub> . <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 142-148.	1.3	5
5	Fluorescence quenching mechanism for water-dispersible Nd <sup>3+</sup> :KYF <sub>4</sub> nanoparticles synthesized by microwave-hydrothermal technique. <i>Journal of Luminescence</i> , 2016, 169, 722-727.	3.1	17
6	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
7	Vacuum ultraviolet spectroscopic analysis of Ce <sup>3+</sup> -doped hexagonal YPO <sub>4</sub> ·0.8H <sub>2</sub> O based on exchange charge model. <i>Journal of Luminescence</i> , 2014, 152, 70-74.	3.1	15
8	Nanosecond fluctuation kinetics of luminescence hopping quenching originated from the 5d <sub>1</sub> level in the Ce <sup>3+</sup> :YPO <sub>4</sub> ·0.8H <sub>2</sub> O nanocrystals. <i>Journal of Luminescence</i> , 2014, 145, 774-778.	3.1	6
9	An energy transfer kinetic probe for OH-quenchers in the Nd <sup>3+</sup> :YPO <sub>4</sub> nanocrystals suitable for imaging in the biological tissue transparency window. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26806-26815.	2.8	28
10	Synthesis and luminescence of ultrafine Er <sup>3+</sup> - and Yb <sup>3+</sup> -doped Gd <sub>11</sub> Si <sub>3</sub> O <sub>26</sub> and Gd <sub>14</sub> B <sub>6</sub> Ge <sub>2</sub> O <sub>34</sub> particles for cancer diagnostics. <i>Inorganic Materials</i> , 2013, 49, 76-81.	0.8	11
11	Fluctuation kinetics of fluorescence hopping quenching in the Nd <sup>3+</sup> :Y <sub>2</sub> O <sub>3</sub> spherical nanoparticles. <i>Journal of Luminescence</i> , 2013, 139, 91-97.	3.1	25
12	Spectroscopy of nanoparticles based on Gd <sub>14</sub> B <sub>6</sub> Ge <sub>2</sub> O <sub>34</sub> polycrystals and La <sub>2</sub> O <sub>3</sub> ·B <sub>2</sub> O <sub>3</sub> glasses, activated by Nd <sup>3+</sup> ions, for cancer diagnostics. <i>Quantum Electronics</i> , 2011, 40, 1094-1097.	1.0	4
13	Luminescent properties of Yb <sup>3+</sup> -doped hexagonal Ln <sub>3</sub> BWO <sub>9</sub> (Ln = Gd, Y). <i>Inorganic Materials</i> , 2010, 46, 900-905.	0.8	7
14	Synthesis and glass formation in the BaO-B <sub>2</sub> O <sub>3</sub> -BaCl <sub>2</sub> system. <i>Inorganic Materials</i> , 2010, 46, 1391-1395.	0.8	7
15	Growth, optical parameters, and spectroscopic properties of crystals of disordered scheelite-like molybdates NaLa <sub>x</sub> Gd <sub>1-x</sub> (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 r	1.0	7
16	Interaction of Er <sup>3+</sup> ions in Er-doped calcium niobium gallium garnet crystals. <i>Quantum Electronics</i> , 2010, 40, 377-380.	1.0	7
17	Barium borate glass and transparent glass ceramics doped with Pb <sub>4</sub> Lu <sub>2</sub> YbF <sub>17</sub> . <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2009, 107, 347-352.	0.6	12
18	Growth, refined structural and spectroscopic characteristics of Tm <sup>3+</sup> -doped NaGd(WO <sub>4</sub> ) <sub>2</sub> single crystals. <i>Journal of Crystal Growth</i> , 2009, 311, 4171-4178.	1.5	13

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19	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
20	Spectroscopy of NaLa(MoO <sub>4</sub> ) <sub>2</sub> : Tm <sup>3+</sup> and NaGd(MoO <sub>4</sub> ) <sub>2</sub> : Tm <sup>3+</sup> crystals as advanced laser materials. Physics of the Solid State, 2008, 50, 1605-1610.	0.6	4
21	Intensity of the f-f transitions of Nd <sup>3+</sup> , Er <sup>3+</sup> , and Tm <sup>3+</sup> rare-earth ions in calcium niobium gallium garnet crystals. Physics of the Solid State, 2008, 50, 1611-1618.	0.6	22
22	Growth and spectroscopic studies of NaLa(MoO <sub>4</sub> ) <sub>2</sub> :Tm <sup>3+</sup> crystals: A new promising laser material. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 538-546.	0.6	14
23	Spectral and laser properties of Tm-doped calcium-niobium-gallium garnets. , 2007, , .		3
24	Yb <sup>3+</sup> ion in calcium niobium gallium garnet crystals: Nearest neighbor environment and optical spectra. Inorganic Materials, 2006, 42, 1133-1137.	0.8	11
25	Synthesis and spectroscopy of sodium-gadolinium tungstate NaGd(WO <sub>4</sub> ) <sub>2</sub> crystals activated by Tm <sup>3+</sup> ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 602-608.	0.6	6
26	Growth and spectroscopic investigations of Yb <sup>3+</sup> -doped NaGd(MoO <sub>4</sub> ) <sub>2</sub> and NaLa(MoO <sub>4</sub> ) <sub>2</sub> new promising laser crystals. Optical Materials, 2006, 29, 246-252.	3.6	79
27	Spectroscopic studies of glasses based on rare-earth borates. Glass Physics and Chemistry, 2006, 32, 47-51.	0.7	6
28	Lasing properties of sodium-gadolinium tungstate NaGd(WO <sub>4</sub> ) <sub>2</sub> crystals doped with Tm <sup>3+</sup> ions. Quantum Electronics, 2006, 36, 515-516.	1.0	18
29	Spectroscopy and Structure of Nd <sup>3+</sup> Activator Centers in Stabilized Cubic ZrO <sub>2</sub> . Inorganic Materials, 2005, 41, 836-839.	0.8	4
30	Diode-pumped cw Tm <sup>3+</sup> :YAlO <sub>3</sub> laser. Quantum Electronics, 2005, 35, 511-514.	1.0	17
31	Spectroscopy of Yb <sup>3+</sup> in Cubic ZrO <sub>2</sub> Crystals. Inorganic Materials, 2004, 40, 502-508.	0.8	8
32	Spectroscopy Yb <sup>3+</sup> in yttria-stabilized cubic zirconia crystals. , 2004, , .		0
33	Glasses based on borates of rare-earth elements, doped with Yb. , 2004, , .		1