

# Nikita Golubev

## List of Publications by Year in descending order

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43  
papers

557  
citations

567281

15  
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677142

22  
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44  
all docs

44  
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Borogermanate glasses with a high terbium oxide content. Journal of Non-Crystalline Solids, 2010, 356, 1655-1659.	3.1	44
2	Native amorphous nanoheterogeneity in gallium germanosilicates as a tool for driving Ga <sub>2</sub> O <sub>3</sub> nanocrystal formation in glass for optical devices. Nanoscale, 2013, 5, 299-306.	5.6	41
3	Nickel-assisted growth and selective doping of spinel-like gallium oxide nanocrystals in germano-silicate glasses for infrared broadband light emission. Nanotechnology, 2012, 23, 015708.	2.6	39
4	Light-emitting Ga-oxide nanocrystals in glass: a new paradigm for low-cost and robust UV-to-visible solar-blind converters and UV emitters. Nanoscale, 2014, 6, 1763-1774.	5.6	33
5	Non-aqueous sol-gel synthesis of hybrid rare-earth-doped $\text{Er}^{3+}$ -Ga <sub>2</sub> O <sub>3</sub> nanoparticles with multiple organic-inorganic-ionic light-emission features. Journal of Materials Chemistry C, 2015, 3, 41-45.	5.5	27
6	Nanosized structural transformation and nonlinear optical properties of lithium niobium germanate glasses. Journal of Non-Crystalline Solids, 2008, 354, 1909-1914.	3.1	26
7	Luminescence of borogermanate glasses activated by Er <sup>3+</sup> and Yb <sup>3+</sup> ions. Journal of Non-Crystalline Solids, 2011, 357, 67-72.	3.1	25
8	One-step micro-modification of optical properties in silver-doped zinc phosphate glasses by femtosecond direct laser writing. Journal of Non-Crystalline Solids, 2018, 481, 634-642.	3.1	25
9	Second-order optical non-linearity initiated in Li <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> and Li <sub>2</sub> O-ZnO-Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> glasses by formation of polar and centrosymmetric nanostructures. Journal of Non-Crystalline Solids, 2008, 354, 873-881.	3.1	24
10	Structure of lanthanum-borogermanate glass with stillwellite composition according to vibrational spectroscopy data. Glass and Ceramics (English Translation of Steklo I Keramika), 2010, 67, 105-108.	0.6	23
11	A novel ultra-sensing composed Langmuir-Blodgett membrane for selective calcium determination in aqueous solutions. Sensors and Actuators B: Chemical, 2006, 114, 19-27.	7.8	18
12	Direct femtosecond laser-induced formation of CdS quantum dots inside silicate glass. Optics Letters, 2018, 43, 2519.	3.3	18
13	Spectroscopic properties of Sm-containing yttrium-aluminoborate glasses and analogous huntite-like polycrystals. Materials Chemistry and Physics, 2012, 137, 48-54.	4.0	17
14	Broadband infrared light-emitting patterns in optical glass by laser-induced nanostructuring of NiO-doped alkali-gallium germanosilicates. Optics Letters, 2013, 38, 492.	3.3	16
15	Glasses and their crystallization in the (1-x)KNbO <sub>3</sub> ·xSiO <sub>2</sub> system at low glass-forming oxide contents, 0 ≤ x ≤ 0.35. Journal of Non-Crystalline Solids, 2010, 356, 958-965.	3.1	15
16	Pre-crystallization heat treatment and infrared luminescence enhancement in Ni <sup>2+</sup> -doped transparent glass-ceramics. Journal of Non-Crystalline Solids, 2019, 515, 42-49.	3.1	15
17	Rearrangement of optical centers and stimulated radiation of Eu <sup>3+</sup> in polycrystalline huntite under optical and electron-beam excitation. JETP Letters, 2010, 92, 497-501.	1.4	13
18	Microfluorescence Analysis of Nanostructuring Inhomogeneity in Optical Fibers with Embedded Gallium Oxide Nanocrystals. Microscopy and Microanalysis, 2012, 18, 259-265.	0.4	13

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19	On the nature of the second-order optical nonlinearity of nanoinhomogeneous glasses in the Li <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> system. <i>Glass Physics and Chemistry</i> , 2007, 33, 97-105.	0.7	12
20	Diffusion-driven and size-dependent phase changes of gallium oxide nanocrystals in a glassy host. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5141-5150.	2.8	11
21	Formation of Luminescent and Birefringent Microregions in Phosphate Glass Containing Silver. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2016, 73, 277-282.	0.6	11
22	Crystallization of nanoheterogeneities in Ga-containing germanosilicate glass: Dielectric and refractive response changes. <i>Acta Materialia</i> , 2014, 70, 19-29.	7.9	9
23	Nickel-doped gallium-containing glasses luminescent in the near-infrared spectral range. <i>Glass Physics and Chemistry</i> , 2010, 36, 657-662.	0.7	8
24	Donor-Acceptor Control in Grown Glass Gallium Oxide Nanocrystals by Crystallization-driven Heterovalent Doping. <i>ChemPhysChem</i> , 2017, 18, 662-669.	2.1	7
25	Radio- and photoluminescence properties of Ce/Tb co-doped glasses with huntite-like composition. <i>Optical Materials</i> , 2018, 78, 247-252.	3.6	7
26	Optical amplification in Ni <sup>2+</sup> -doped gallium germanosilicate glass-ceramics. <i>Optics Communications</i> , 2021, 491, 126955.	2.1	7
27	Langmuir-Blodgett composite films for the selective determination of calcium in aqueous solutions. <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 1334-1342.	0.6	5
28	Space-selective enhancement of blue photoluminescence in gallium germanosilicate glass through laser-induced nanostructuring. <i>Materials Letters</i> , 2014, 122, 174-177.	2.6	5
29	Nucleation-controlled vacancy formation in light-emitting wide-band-gap oxide nanocrystals in glass. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4380-4387.	5.5	5
30	Augmented excitation cross section of gadolinium ions in nanostructured glasses. <i>Optics Letters</i> , 2017, 42, 2419.	3.3	5
31	Oxide glass with minimum distance 0.67 nm between rare-earth activators. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2016, 73, 277-282.	0.6	4
32	Local crystallization of glasses aided by copper vapor laser. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2016, 73, 277-282.	0.6	4
33	Spectroscopic Properties of Yttrium-Aluminum-Borate Glasses Activated by Terbium and Cerium Ions. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2016, 72, 366-369.	0.6	4
34	Glass formation, crystallization, and spectral-luminescence properties of glasses of the Er <sub>2</sub> O <sub>3</sub> -Yb <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> System. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2008, 65, 340-343.	0.6	3
35	The role of networking in the optical anisotropy of hot-extruded calcium phosphate glass. <i>Materials Chemistry and Physics</i> , 2011, 128, 12-15.	4.0	3
36	Crystallization and luminescence properties of (Sm <sub>x</sub> Y <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> :Al <sub>2</sub> O <sub>3</sub> :B <sub>2</sub> O <sub>3</sub> glass. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2013, 69, 370-374.	0.6	3

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37	Spectral-luminescent and laser properties of the $(Y_{1-x}Ybx)_{2O_3} \cdot Al_2O_3 \cdot B_2O_3$ glasses. <i>Optical Materials</i> , 2018, 76, 253-259.	3.6	3
38	Nano-heterogeneous structure of $(1-x)KNbO_3 \cdot xSiO_2$ glasses in the low glass-forming oxide content range 0.05 to 0.3. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3136-3142.	3.1	2
39	Broadband luminescence in nanostructured glasses. <i>Glass and Ceramics (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock</i>	0.6	2
40	Oscillator strengths of absorption transitions from the $5D_0$ state in huntite-like $EuAl_3(BO_3)_4$ polycrystals. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 536-541.	0.7	2
41	Responsive charge transport in wide-band-gap oxide films of nanostructured amorphous alkali-gallium-germanosilicate. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7768-7778.	5.5	2
42	Low silica $K_2O \cdot Nb_2O_5 \cdot SiO_2$ nonlinear optical glasses. <i>Glass and Ceramics (English Translation of) Tj ETQq0,0,0 rgBT /Overlock</i>	0.6	1
43	Structure of low-silica glasses in the $K_2O-Nb_2O_5-SiO_2$ system. <i>Theoretical Foundations of Chemical Engineering</i> , 2013, 47, 1-9.	0.7	0