

# Inna Baklanova

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Janus ZnS nanoparticles: Synthesis and photocatalytic properties. Journal of Physics and Chemistry of Solids, 2022, 161, 110459.	1.9	7
2	Amorphous nanostructured composites Al <sub>2</sub> O <sub>3</sub> :nC with enhanced sorption affinity to La(III), Ce(III), U(VI) ions in aqueous solution. Inorganic Chemistry Communication, 2022, 138, 109313.	1.8	1
3	Blue- and white-emitting Dy <sup>3+</sup> -doped aluminum oxide prepared using precursor synthesis. Journal of Physics and Chemistry of Solids, 2022, 165, 110683.	1.9	1
4	Thermally stimulated infrared shift of cadmium oxide optical absorption band edge. Materials Science in Semiconductor Processing, 2021, 124, 105605.	1.9	7
5	Sorption Properties of MIU-S Coal Sorbent in Relation to Nickel(II) Ions. Protection of Metals and Physical Chemistry of Surfaces, 2021, 57, 469-474.	0.3	3
6	Effect of Cu <sup>+</sup> ions on the structure, morphology, optical and photocatalytic properties of nanostructured ZnO. Materials Characterization, 2021, 179, 111384.	1.9	7
7	Synthesis, spectroscopic and luminescence properties of Ga <sup>3+</sup> -doped $\beta$ -Al <sub>2</sub> O <sub>3</sub> . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117658.	2.0	10
8	Structural and chemical mechanism underlying formation of Zn <sub>2</sub> SiO <sub>4</sub> :Mn crystalline phosphor properties. Journal of Alloys and Compounds, 2020, 820, 153129.	2.8	16
9	Precursor technology for the production of white and color phosphors based on Al <sub>2</sub> O <sub>3</sub> :Ln (Ln=Eu <sup>3+</sup> ), Tj ETQq1 1 0,784314 rgBT /Ove 1.4	1.4	14
10	The effect of Mg introduction on structural and luminescence properties of Zn <sub>2</sub> SiO <sub>4</sub> :Mn phosphor. Journal of Alloys and Compounds, 2020, 845, 156296.	2.8	14
11	Synthesis and Crystal-Chemical, Thermal, and Spectrochemical Properties of the Zn <sub>2</sub> $\alpha$ - 2xNi <sub>2</sub> xSiO <sub>4</sub> Solid Solution with a Willemite Structure. Russian Journal of Inorganic Chemistry, 2020, 65, 1535-1540.	0.3	2
12	High-Pressure Eu <sup>3+</sup> $\rightarrow$ Eu <sup>2+</sup> Reduction in a Matrix with the Structure of Apatite Silicate. Russian Journal of Physical Chemistry A, 2020, 94, 2467-2473.	0.1	6
13	New Nanosized Luminophores Obtained via Evaporation of REE Silicates and Germanates. Physics of the Solid State, 2019, 61, 925-934.	0.2	4
14	Phosphor for the Near-IR and Short-Wave IR Ranges Based on a Garnet Structured Cubic Modification of Lithium $\rightarrow$ Lanthanum Niobate. Physics of the Solid State, 2019, 61, 874-880.	0.2	0
15	Combustion in the Cu(NO <sub>3</sub> ) <sub>2</sub> $\cdot$ Al(NO <sub>3</sub> ) <sub>3</sub> $\cdot$ H <sub>2</sub> O $\rightarrow$ Polyvinyl Alcohol System: Synthesis of CuO/Al <sub>2</sub> O <sub>3</sub> . Combustion, Explosion and Shock Waves, 2019, 55, 167-176.	0.3	2
16	Origin of the Concentration Quenching of Luminescence in Zn <sub>2</sub> SiO <sub>4</sub> :Mn Phosphors. Physics of the Solid State, 2019, 61, 806-810.	0.2	7
17	Crystal Structure of (NH <sub>4</sub> ) <sub>2</sub> VO(SO <sub>4</sub> ) <sub>2</sub> $\cdot$ H <sub>2</sub> O. Journal of Structural Chemistry, 2019, 60, 796-802.	0.3	0
18	Photocatalytic Properties of Hollow BiFeO <sub>3</sub> Spheres. Russian Journal of Applied Chemistry, 2019, 92, 113-121.	0.1	1

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19	Synthesis, structure, optical, voltammetric and photocatalytic properties of manganese-activated ZnO. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8820-8831.	1.1	4
20	Structural, electronic, and optical studies of BaRE <sub>2</sub> Ge <sub>3</sub> O <sub>10</sub> (RE = Y, Sc, Gd–Lu) germanates with a special focus on the [Ge <sub>3</sub> O <sub>10</sub> ] <sup>8-</sup> geometry. <i>CrystEngComm</i> , 2019, 21, 6491-6502.	1.3	11
21	Synthesis, crystal structure and optical properties of Me(OH)(HCOO) <sub>2</sub> (Me = Al, Ga). <i>CrystEngComm</i> , 2018, 20, 2741-2748.	1.3	6
22	Sensitized IR luminescence in Ca <sub>3</sub> Y <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> : Nd <sup>3+</sup> , Ho <sup>3+</sup> under 808 nm laser excitation. <i>Ceramics International</i> , 2018, 44, 6959-6967.	2.3	16
23	Magnetic and optical properties as well as EPR studies of polycrystalline ZnO synthesized from different precursors. <i>Materials Research Bulletin</i> , 2018, 97, 553-559.	2.7	18
24	Concentration growth of luminescence intensity of phosphor Zn <sub>2-2x</sub> Mn <sub>2x</sub> SiO <sub>4</sub> (x = 0.13): Crystal-chemical and quantum-mechanical justification. <i>Materials Research Bulletin</i> , 2018, 97, 182-188.	2.7	14
25	The effect of preparation method on the defect structure and luminescence properties of <sup>137</sup> Eu-Al <sub>2</sub> O <sub>3</sub> . <i>Mendeleev Communications</i> , 2018, 28, 668-670.	0.6	5
26	Thermal and Magnetic Properties of Maghemite <sup>57</sup> Fe-Fe <sub>2</sub> O <sub>3</sub> Synthesized by a Precursor Method. <i>Doklady Chemistry</i> , 2018, 481, 161-165.	0.2	6
27	Precursor synthesis of maghemite and its adsorption properties with respect to bivalent copper ions. <i>Adsorption</i> , 2018, 24, 629-636.	1.4	3
28	Surface-Modified CdS/ZnO Material: Single-Reactor Synthesis and Mechanism of Formation in Aqueous Solution. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 454-462.	0.1	0
29	The luminescence properties of <sup>137</sup> Eu-Al <sub>2</sub> O <sub>3</sub> :C produced by precursor method. <i>Journal of Alloys and Compounds</i> , 2017, 698, 1102-1110.	2.8	10
30	Fe and C doped TiO <sub>2</sub> with different aggregate architecture: Synthesis, optical, spectral and photocatalytic properties, first-principle calculation. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 473-486.	1.9	8
31	Spectroscopic and voltammetric characteristics of <sup>137</sup> Eu-Zn <sub>2</sub> SiO <sub>4</sub> :V luminophor. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 1824-1827.	0.1	8
32	Synthesis, structure, optical and photocatalytic properties of copper-activated ZnO. <i>Mendeleev Communications</i> , 2017, 27, 410-412.	0.6	9
33	Synthesis, structure, and photocatalytic properties of Zn <sub>1-x</sub> Cu <sub>x</sub> O: CuO composites with various morphologies of aggregates. <i>Doklady Chemistry</i> , 2017, 474, 105-108.	0.2	1
34	Synthesis and Photophysical Studies of 2-(Thiophen-2-yl)-4-(morpholin-4-yl)quinazoline Derivatives. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2876-2881.	1.2	20
35	Synthesis, structure, and optical and photocatalytic properties of quasi-one-dimensional ZnO doped with <sup>137</sup> Eu <sub>3</sub> SiO <sub>4</sub> and carbon. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016, 80, 1298-1302.	0.1	3
36	NH <sub>4</sub> V <sub>3</sub> O <sub>7</sub> : Synthesis, morphology, and optical properties. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 1584-1590.	0.3	5

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37	Mechanism of the formation of photosensitive nanostructured TiO <sub>2</sub> with low content of CdS nanoparticles. Doklady Physical Chemistry, 2016, 467, 56-59.	0.2	1
38	Synthesis, structure and spectroscopic characteristics of Ti(O,C) <sub>2</sub> /carbon nanostructured globules with visible light photocatalytic activity. Bulletin of Materials Science, 2016, 39, 1569-1579.	0.8	6
39	Synthesis and optical and photocatalytic properties of manganese-doped titanium oxide with a three-dimensional architecture of particles. Mendeleev Communications, 2016, 26, 335-337.	0.6	9
40	Synthesis, crystal structure, and Raman spectra of mixed oxides K <sub>2</sub> Pb(MoO <sub>4</sub> ) <sub>2</sub> ·x(CrO <sub>4</sub> ) <sub>x</sub> and K <sub>2</sub> ·xPb <sub>1-x</sub> (MoO <sub>4</sub> ) <sub>1-x</sub> (CrO <sub>4</sub> ) <sub>x</sub> (VO <sub>4</sub> ) <sub>x</sub> , where x = 0–1. Russian Journal of Inorganic Chemistry, 2016, 61, 1097-1103.	0.3	0
41	Synthesis, spectral, optical and photocatalytic properties of vanadium- and carbon-doped titanium dioxide with three-dimensional architecture of aggregates. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 314, 6-13.	2.0	12
42	Synthesis and luminescent properties of Al <sub>1-x</sub> Tbx(HCOO) <sub>3</sub> and Al <sub>2-x</sub> Tb <sub>2x</sub> O <sub>3</sub> . Mendeleev Communications, 2015, 25, 209-210.	0.6	5
43	Observation of ferromagnetism at room temperature in polycrystalline Zn <sub>1-x</sub> Fe <sub>x</sub> O solid solutions synthesized by the precursor method. Physics of the Solid State, 2015, 57, 1079-1088.	0.2	3
44	Optical and Photocatalytic Properties of Carbon-Activated Anatase with Spherical Shape of Aggregates. Catalysis Letters, 2015, 145, 1290-1300.	1.4	8
45	Synthesis, optical properties, and photocatalytic activity of lanthanide-doped anatase. Russian Journal of Inorganic Chemistry, 2014, 59, 29-33.	0.3	11
46	Optical properties, emission characteristics, and photocatalytic activity of nanosize titanium dioxide doped with europium. Nanotechnologies in Russia, 2014, 9, 502-510.	0.7	1
47	Morphology, absorption spectra, and photocatalytic activity of nanosized solid solution Ti <sub>1-x</sub> Eu <sub>x</sub> O <sub>2-x/2</sub> . Doklady Physical Chemistry, 2014, 457, 112-115.	0.2	1
48	Glycolate Ti <sub>1-x</sub> Fe <sub>x</sub> (OCH <sub>2</sub> CH <sub>2</sub> O) <sub>2-x/2</sub> as a precursor for the preparation of quasi-one-dimensional (1D) solid solutions Ti <sub>1-x</sub> Fe <sub>x</sub> O <sub>2-x/2</sub> (0 ≤ x ≤ 0.1). Russian Journal of Inorganic Chemistry, 2013, 58, 120-126.	0.3	7
49	Synthesis, crystal structure, and vibrational spectra of MVO(SO <sub>4</sub> ) <sub>2</sub> (M = Rb, Cs, or Tl). Russian Journal of Inorganic Chemistry, 2013, 58, 127-133.	0.3	1
50	Luminescent properties of europium-doped zinc formate and oxide. Theoretical and Experimental Chemistry, 2013, 49, 235-240.	0.2	0
51	Electronic band structure, optical absorption, and photocatalytic activity of iron-doped anatase. Physics of the Solid State, 2013, 55, 1903-1912.	0.2	15
52	Synthesis, optical properties, and defective structure of carbon-doped titanium dioxide. Doklady Chemistry, 2013, 452, 211-214.	0.2	2
53	Effect of doping with 3d elements (Co, Ni, Cu) on the intrinsic defect structure and photocatalytic properties of nanostructured ZnO with tubular morphology of aggregates. Physics of the Solid State, 2013, 55, 2459-2465.	0.2	17
54	Electronic band structure and optical absorption of nanotubular zinc oxide doped with Iron, Cobalt, or Copper. Physics of the Solid State, 2013, 55, 2450-2458.	0.2	4

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55	Preparation, morphology, and luminescent properties of europium-doped nanodispersed scandium sesquioxide. Russian Journal of Inorganic Chemistry, 2012, 57, 1529-1534.	0.3	4
56	Structure and luminescence properties of nanostructured solid-state solutions of $\text{Sc}_{1-x}\text{Eu}_x(\text{CH}_3\text{CO}_2)_3$ . Theoretical and Experimental Chemistry, 2012, 48, 113-117.	0.2	0
57	Glycolate $\text{Ti}_{1-x}\text{Ln}_x(\text{OCH}_2\text{CH}_2\text{O})_2$ as an efficient precursor for synthesis of titanium dioxide doped with lanthanides $\text{Ti}_{1-x}\text{Ln}_x\text{O}_2$ . Doklady Chemistry, 2011, 437, 112-115.	0.2	2
58	Crystal structure and vibrational spectra of $\text{M}[\text{VO}_2(\text{SeO}_4)(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$ (M = K, Rb, $\text{NH}_4$ ). Journal of Structural Chemistry, 2011, 52, 350-357.	0.3	2
59	$\text{K}_3\text{VO}_2(\text{SO}_4)_2$ : Formation conditions, crystal structure, and physicochemical properties. Russian Journal of Inorganic Chemistry, 2011, 56, 18-25.	0.3	4
60	Synthesis, structure, and properties of $\text{M}[\text{VO}_2(\text{XO}_4)(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$ (X = S, M = K, Rb, $\text{NH}_4$ , Tl; X = Se, M = K, Tl). <i>Journal of Inorganic Chemistry</i> , 2011, 56, 1168-1177.	0.3	6
61	Synthesis, crystal structure, and vibrational spectra of $\text{M}_4\text{V}_2\text{O}_3(\text{SO}_4)_4$ (M = K, Rb, Cs). Russian Journal of Inorganic Chemistry, 2011, 56, 491-500.	0.3	1
62	Synthesis, structure, and physicochemical properties of $\text{K}[\text{VO}_2(\text{SeO}_4)(\text{H}_2\text{O})]$ and $\text{K}[\text{VO}_2(\text{SeO}_4)(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$ . Russian Journal of Inorganic Chemistry, 2011, 56, 1168-1177.	0.3	1
63	Stability of the anatase phase in nanodimensional titanium dioxide doped with europium(III), samarium(III), and iron(III). Theoretical and Experimental Chemistry, 2011, 47, 215-218.	0.2	5
64	Synthesis and physicochemical study of $\text{M}_4\text{Na}_2\text{V}_{10}\text{O}_{28} \cdot 10\text{H}_2\text{O}$ (M=K, Rb, $\text{NH}_4$ ). Russian Journal of Inorganic Chemistry, 2010, 55, 162-166.	0.3	3
65	Synthesis, structure, and properties of $\text{V}_2\text{O}_3(\text{XO}_4)_2$ (X = S, Se). Russian Journal of Inorganic Chemistry, 2010, 55, 501-507.	0.3	7
66	Synthesis, structure, and properties of $\text{M}_3\text{VO}_2(\text{SO}_4)_2$ (M = Rb, Cs). Russian Journal of Inorganic Chemistry, 2010, 55, 1331-1338.	0.3	0
67	The effect of divalent cations on the structural parameters, phase transitions, and electrical conductivity of oxygen conductors based on $\text{LaGaO}_3$ . Doklady Chemistry, 2009, 427, 194-198.	0.2	1
68	Luminescence in $\text{Ln}_2\text{CaGe}_4\text{O}_{12}$ under infrared laser excitation. Journal of Luminescence, 2009, 129, 1625-1628.	1.5	15
69	Structure and properties of glasses in the $\text{MgSO}_4\text{-Na}_2\text{B}_4\text{O}_7\text{-KPO}_3$ system. Glass Physics and Chemistry, 2009, 35, 580-585.	0.2	8
70	Synthesis and properties of $\text{M}_2\text{V}_8\text{O}_{21}$ (M = K, Tl) octavanadates and $\text{K}_2\text{Ti}_x\text{V}_8\text{O}_{21}$ ( $0 \leq x \leq 2$ ) solid solutions. Russian Journal of Inorganic Chemistry, 2009, 54, 1537-1542.	0.3	2
71	Hydration and proton transport in solid solutions based on $\text{Ba}_2\text{CaWO}_6$ . Russian Journal of Physical Chemistry A, 2009, 83, 197-202.	0.1	4
72	Crystal structure and optical properties of germanates $\text{Ln}_2\text{Ca}(\text{GeO}_3)_4$ (Ln = Gd, Ho, Er, Yb, Y). Physics of the Solid State, 2008, 50, 1699-1706.	0.2	13

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73	Synthesis and vibrational spectra of solid solutions based on lanthanum gallate. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1343-1346.	0.1	6
74	New materials for stimulated Raman scattering laser crystals of the IR range. Doklady Physical Chemistry, 2008, 418, 30-35.	0.2	0
75	Synthesis, crystal structure, and vibrational spectra of cesium dioxovanadium(V) sulfate CsVO <sub>2</sub> SO <sub>4</sub> . Doklady Chemistry, 2007, 415, 172-175.	0.2	1
76	Crystal structure and spectroscopic properties of A[VO <sub>2</sub> (SO <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub> ] · nH <sub>2</sub> O (A = K, Rb, Tl, NH <sub>4</sub> ) compounds. Russian Journal of Inorganic Chemistry, 2007, 52, 1415-1423.	0.3	5
77	Crystal structure and spectroscopic properties of AVO <sub>2</sub> SO <sub>4</sub> (A = K, Rb) compounds. Russian Journal of Inorganic Chemistry, 2007, 52, 1424-1429.	0.3	6
78	Glass formation and vibrational spectra of glasses in the RSO <sub>4</sub> -Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> -K <sub>2</sub> SO <sub>4</sub> (R = Mg, Ca, Sr, Ba) systems. Glass Physics and Chemistry, 2006, 32, 634-637.	0.2	2
79	Vibrational Spectra of Sulfoborate Glasses. Inorganic Materials, 2005, 41, 1128-1130.	0.2	10
80	Title is missing!. Russian Journal of Applied Chemistry, 2002, 75, 1748-1752.	0.1	7
81	Title is missing!. Russian Journal of Applied Chemistry, 2001, 74, 945-949.	0.1	6
82	Precursor synthesis and properties of iron and lithium co-doped cadmium oxide. Journal of Electroceramics, 0, , 1.	0.8	0
83	Sorption of copper(II) ions from aqueous solution by activated carbon BAU-A and coal sorbent MIU-S. The relationship between the structure of sorbents and their sorption properties. Water Science and Technology, 0, , .	1.2	1