Dmitry S Shtarev

List of Publications by Year
in descending order

44	293	932766 10	1058022 14
papers	citations	h-index	g-index

44	44	44	191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical properties of lithium niobate crystals. Optik, 2018, 156, 239-246.	1.4	29
2	Solid-state synthesis, characterization, UV-induced coloration and photocatalytic activity â€“ The Sr6Bi2O11, Sr3Bi2O6 and Sr2Bi2O5 bismuthates. Catalysis Today, 2020, 340, 70-85.	2.2	25
3	Considerations of Trends in Heterogeneous Photocatalysis. Correlations between Conduction and Valence Band Energies with Bandgap Energies of Various Photocatalysts. ChemCatChem, 2019, 11, 3534-3541.	1.8	19
4	On the question of the optimal concentration of benzoquinone when it is used as a radical scavenger. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	18
5	Synthesis and photocatalytic properties of alkaline earth metals bismuthatesâ€“bismuth oxide compositions. Optik, 2016, 127, 1414-1420.	1.4	16
6	Photoelectric Fields and Band Gap in Doped Lithium Niobate Crystals. Inorganic Materials, 2018, 54, 581-584.	0.2	14
7	Calcium Bismuthate Nanoparticulates with Orthorhombic and Rhombohedral Crystalline Lattices: Effects of Composition and Structure on Photoactivity. ChemistrySelect, 2017, 2, 9851-9863.	0.7	13
8	Revisiting the BaBiO3 semiconductor photocatalyst: synthesis, characterization, electronic structure, and photocatalytic activity. Photochemical and Photobiological Sciences, 2021, 20, 1147-1160.	1.6	13
9	On the influence of strontium carbonate on improving the photo-catalytic activity of strontium bismuthate Sr6Bi2O11. Catalysis Today, 2019, 335, 492-501.	2.2	12
10	Phenomenological Rule from Correlations of Conduction/Valence Band Energies and Bandgap Energies in Semiconductor Photocatalysts: Calcium Bismuthates versus Strontium Bismuthates. ChemCatChem, 2020, 12, 1551-1555.	1.8	12
11	Materials synthesis, characterization and DFT calculations of the visible-light-active perovskite-like barium bismuthate Ba_{1.264(4)}Bi_{1.971(4)}O₄ photocatalyst. Journal of Materials Chemistry C, 2020, 8, 3509-3519.	2.7	12
12	Effect of Composition on the Optical and Photocatalytic Properties of Visible Light Responsive Materials Bi_{26â€“x}Mg_xO₄₀. Inorganic Chemistry, 2020, 59, 8173-8183.	1.9	9
13	Synthesis, characterization, optoelectronic and photocatalytic properties of Sr2Bi2O5/SrCO3 and Sr3Bi2O6/SrCO3 heterostructures with varying SrCO3 content. Chemosphere, 2021, 267, 129229.	4.2	9
14	Behavioral features of photostimulated processes in the heterogeneous composition of polymerâ€“semiconductorâ€“salt of a metal. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 146-158.	2.0	8
15	The dependence of the conduction band edge of the alkali earth metal bismuthates on their composition. Optical and Quantum Electronics, 2018, 50, 1.	1.5	8
16	Photosensitive composition based on polyvinyl alcohol. Optics and Spectroscopy (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	7
17	Dependency of the optical properties of heterogeneous calcium bismuthateâ€“bismuth oxide particles on the order of layers alternation. Optical and Quantum Electronics, 2016, 48, 1.	1.5	6
18	A new generation of visible-light-active photocatalystsâ€”The alkaline earth metal bismuthates: Syntheses, compositions, structures, and properties. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 50, 100501.	5.6	6

#	Article	IF	Citations
19	Photocatalytic Degradation of the Diesel Fuel by Using the Calcium Bismuthate - Bismuth Oxide Photocatalyst Composition. Applied Mechanics and Materials, 0, 377, 204-208.	0.2	5
20	Application of pyrolitic method of synthesis for preparation of calcium bismuthate based photocatalyst. Proceedings of SPIE, 2016, , .	0.8	5
21	Optical homogeneity and photorefractive properties of stoichiometric and congruent lithium niobate crystals grown using charges of different origins. Inorganic Materials, 2017, 53, 1189-1194.	0.2	5
22	About Photocatalytic Properties of some Heterostructures Based on Strontium Bismuthate. Key Engineering Materials, 0, 806, 161-166.	0.4	5
23	Impact of a chlorine ions concentration in sensitizer solution on the photographic characteristics of polyvinyl alcoholâ€“zinc oxideâ€“bismuth chloride composition. Optik, 2012, 123, 1095-1097.	1.4	4
24	Photoelectric fields in lithium niobate crystals. Journal of Optical Technology (A Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	0.2	4
25	Photoelectric fields in lithium niobate crystals. Optical and Quantum Electronics, 2017, 49, 1.	1.5	4
26	Optical Properties of Various Strontium Bismuthates: Luminescence and UVâ€induced Photocoloration. ChemPhotoChem, 2020, 4, 5209-5222.	1.5	4
27	<title>Photographic materials with direct blackening based on polymer-semiconductor compositions</title>. , 2005, , .		3
28	Influence of synthesis conditions on the shape and size characteristics of TiO2 nanocrystals. Nanotechnologies in Russia, 2013, 8, 751-755.	0.7	3
29	<title>Research of photoprocesses in compositions of the polymer-semiconductor</title>. , 2007, , .		2
30	The influence of the acetate group in the polyvinyl alcohol structure on the direct blackening photostimulated processes in the polymerâ€“zinc oxideâ€“salt of metal photosensitive composition. Optik, 2013, 124, 4016-4018.	1.4	2
31	Dependence of optical properties of calcium bismuthates on synthesis conditions. Journal of Physics: Conference Series, 2016, 735, 012068.	0.3	2
32	Strontium Bismuthates Sr₂Bi₂O₅ and Sr₆Bi₂O₁₁: Temperature Dependencies of Urbach Energy and Location of Â«Urbach FocusÂ». Defect and Diffusion Forum, 0, 386, 181-185.	0.4	2
33	The Dependence of the Photographic Characteristic of a Polymer â€“ zinc oxide â€“ salt of Metal Photosensitive Compositions by the Polymer Structure Peculiarity. AASRI Procedia, 2012, 3, 78-82.	0.6	1
34	Hydrothermal synthesis of anatase nanocrystals. , 2012, , .		1
35	The Influence of the Structure Peculiarity of the Polyvinyl Alcohol Structure on the Direct Blackening Photostimulated Processes in the Polyvinyl Alcohol-zink oxude-bismuth Chloride Composition. AASRI Procedia, 2012, 3, 73-77.	0.6	1
36	The Influence of the Solvent on the Shape of the Titanium Dioxide Crystals during the Solvothermal Autoclave Synthesis. Applied Mechanics and Materials, 0, 377, 186-190.	0.2	1

#	Article	IF	Citations
37	Sensitivity Check of Thickness to the Crystal Plate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mi mathvariant="normal">Î»</mml:mi><mml:mo>/</mml:mo><mml:mtext mathvariant="normal">4</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 0 7 5		
38	The effect of the relative concentration of strontium in the cation sublattice of strontium bismutate on its photocatalytic properties. , 2019, , .		1
39	Investigation of the Mechanism of Electric Conductivity of Strontium Bismuthate Sr₆Bi₂O₁₁. Solid State Phenomena, 0, 312, 32-37.	0.3	1
40	Orientationally polarized dependence of image contrast in doped lithium niobate crystals. Optik, 2011, 122, 1275-1278.	1.4	0
41	Correlation between photographic and electrical properties of the polymerâ€“semiconductorâ€“salt of metal photosensitive composition. Optik, 2014, 125, 2991-2994.	1.4	0
42	Effect of preparation conditions of calcium bismuthate based photocatalyst on its catalytic properties. , 2016, , .		0
43	Strontium Bismuthate Sr3Bi2O6: Thermostimulated Change of Optical Properties and its Analysis from the Point of View of Urbach Rule. , 2019, , .		0
44	Tunable phase plate in a wide wavelength range. , 2019, , .		0