

# Dmitry S Shtarev

## List of Publications by Year in descending order

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44  
papers

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932766  
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44  
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44  
docs citations

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times ranked

191  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new generation of visible-light-active photocatalystsâ€”The alkaline earth metal bismuthates: Syntheses, compositions, structures, and properties. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 50, 100501.	5.6	6
2	Synthesis, characterization, optoelectronic and photocatalytic properties of Sr <sub>2</sub> Bi <sub>2</sub> O <sub>5</sub> /SrCO <sub>3</sub> and Sr <sub>3</sub> Bi <sub>2</sub> O <sub>6</sub> /SrCO <sub>3</sub> heterostructures with varying SrCO <sub>3</sub> content. <i>Chemosphere</i> , 2021, 267, 129229.	4.2	9
3	Revisiting the BaBiO <sub>3</sub> semiconductor photocatalyst: synthesis, characterization, electronic structure, and photocatalytic activity. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1147-1160.	1.6	13
4	Solid-state synthesis, characterization, UV-induced coloration and photocatalytic activity â€” The Sr <sub>6</sub> Bi <sub>2</sub> O <sub>11</sub> , Sr <sub>3</sub> Bi <sub>2</sub> O <sub>6</sub> and Sr <sub>2</sub> Bi <sub>2</sub> O <sub>5</sub> bismuthates. <i>Catalysis Today</i> , 2020, 340, 70-85.	2.2	25
5	Phenomenological Rule from Correlations of Conduction/Valence Band Energies and Bandgap Energies in Semiconductor Photocatalysts: Calcium Bismuthates versus Strontium Bismuthates. <i>ChemCatChem</i> , 2020, 12, 1551-1555.	1.8	12
6	Effect of Composition on the Optical and Photocatalytic Properties of Visible Light Responsive Materials Bi <sub>26</sub> Mg <sub>x</sub> O <sub>40</sub> . <i>Inorganic Chemistry</i> , 2020, 59, 8173-8183.	1.9	9
7	Optical Properties of Various Strontium Bismuthates: Luminescence and UVâ€”induced Photocoloration. <i>ChemPhotoChem</i> , 2020, 4, 5209-5222.	1.5	4
8	Materials synthesis, characterization and DFT calculations of the visible-light-active perovskite-like barium bismuthate Ba <sub>1.264(4)</sub> Bi <sub>1.971(4)</sub> O <sub>4</sub> photocatalyst. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3509-3519.	2.7	12
9	Considerations of Trends in Heterogeneous Photocatalysis. Correlations between Conduction and Valence Band Energies with Bandgap Energies of Various Photocatalysts. <i>ChemCatChem</i> , 2019, 11, 3534-3541.	1.8	19
10	On the influence of strontium carbonate on improving the photo-catalytic activity of strontium bismuthate Sr <sub>6</sub> Bi <sub>2</sub> O <sub>11</sub> . <i>Catalysis Today</i> , 2019, 335, 492-501.	2.2	12
11	Strontium Bismuthate Sr <sub>3</sub> Bi <sub>2</sub> O <sub>6</sub> : Thermostimulated Change of Optical Properties and its Analysis from the Point of View of Urbach Rule. , 2019, , .		0
12	The effect of the relative concentration of strontium in the cation sublattice of strontium bismutate on its photocatalytic properties. , 2019, , .		1
13	Tunable phase plate in a wide wavelength range. , 2019, , .		0
14	Optical properties of lithium niobate crystals. <i>Optik</i> , 2018, 156, 239-246.	1.4	29
15	The dependence of the conduction band edge of the alkali earth metal bismuthates on their composition. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	8
16	Photoelectric Fields and Band Gap in Doped Lithium Niobate Crystals. <i>Inorganic Materials</i> , 2018, 54, 581-584.	0.2	14
17	Photoelectric fields in lithium niobate crystals. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	4
18	Calcium Bismuthate Nanoparticulates with Orthorhombic and Rhombohedral Crystalline Lattices: Effects of Composition and Structure on Photoactivity. <i>ChemistrySelect</i> , 2017, 2, 9851-9863.	0.7	13

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19	Optical homogeneity and photorefractive properties of stoichiometric and congruent lithium niobate crystals grown using charges of different origins. <i>Inorganic Materials</i> , 2017, 53, 1189-1194.	0.2	5
20	On the question of the optimal concentration of benzoquinone when it is used as a radical scavenger. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	18
21	Dependence of optical properties of calcium bismuthates on synthesis conditions. <i>Journal of Physics: Conference Series</i> , 2016, 735, 012068.	0.3	2
22	Effect of preparation conditions of calcium bismuthate based photocatalyst on its catalytic properties. , 2016, , .		0
23	Application of pyrolytic method of synthesis for preparation of calcium bismuthate based photocatalyst. <i>Proceedings of SPIE</i> , 2016, , .	0.8	5
24	Dependency of the optical properties of heterogeneous calcium bismuthateâ€“bismuth oxide particles on the order of layers alternation. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	6
25	Synthesis and photocatalytic properties of alkaline earth metals bismuthatesâ€“bismuth oxide compositions. <i>Optik</i> , 2016, 127, 1414-1420.	1.4	16
26	Photoelectric fields in lithium niobate crystals. <i>Journal of Optical Technology (A Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462</i>	0.2	4
27	Correlation between photographic and electrical properties of the polymerâ€“semiconductorâ€“salt of metal photosensitive composition. <i>Optik</i> , 2014, 125, 2991-2994.	1.4	0
28	Influence of synthesis conditions on the shape and size characteristics of TiO2 nanocrystals. <i>Nanotechnologies in Russia</i> , 2013, 8, 751-755.	0.7	3
29	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. <i>Conformity Check of Thickness to the Crystal Plate</i>	1.4	2
30	Conformity Check of Thickness to the Crystal Plate $\frac{d}{\lambda} \ll 1$ $4$		
31	The Dependence of the Photographic Characteristic of a Polymer â€“ zinc oxide â€“ salt of Metal Photosensitive Compositions by the Polymer Structure Peculiarity. <i>AASRI Procedia</i> , 2012, 3, 78-82.	0.6	1
32	Hydrothermal synthesis of anatase nanocrystals. , 2012, , .		1
33	The Influence of the Structure Peculiarity of the Polyvinyl Alcohol Structure on the Direct Blackening Photostimulated Processes in the Polyvinyl Alcohol-zinc oxide-bismuth Chloride Composition. <i>AASRI Procedia</i> , 2012, 3, 73-77.	0.6	1
34	Impact of a chlorine ions concentration in sensitizer solution on the photographic characteristics of polyvinyl alcoholâ€“zinc oxideâ€“bismuth chloride composition. <i>Optik</i> , 2012, 123, 1095-1097.	1.4	4
35	Behavioral features of photostimulated processes in the heterogeneous composition of polymerâ€“semiconductorâ€“salt of a metal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 222, 146-158.	2.0	8
36	Photosensitive composition based on polyvinyl alcohol. <i>Optics and Spectroscopy (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td (r</i>	0.2	7

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37	Orientationally polarized dependence of image contrast in doped lithium niobate crystals. <i>Optik</i> , 2011, 122, 1275-1278.	1.4	0
38	<title>Research of photoprocesses in compositions of the polymer-semiconductor</title>. , 2007, , .		2
39	<title>Photographic materials with direct blackening based on polymer-semiconductor compositions</title>. , 2005, , .		3
40	Photocatalytic Degradation of the Diesel Fuel by Using the Calcium Bismuthate - Bismuth Oxide Photocatalyst Composition. <i>Applied Mechanics and Materials</i> , 0, 377, 204-208.	0.2	5
41	The Influence of the Solvent on the Shape of the Titanium Dioxide Crystals during the Solvothermal Autoclave Synthesis. <i>Applied Mechanics and Materials</i> , 0, 377, 186-190.	0.2	1
42	Strontium Bismuthates $Sr_{2-x}Bi_{2-x}O_{5-x}$ and $Sr_{6-x}Bi_{2-x}O_{11-x}$ :: Temperature Dependencies of Urbach Energy and Location of «Urbach Focus». <i>Defect and Diffusion Forum</i> , 0, 386, 181-185.	0.4	2
43	About Photocatalytic Properties of some Heterostructures Based on Strontium Bismuthate. <i>Key Engineering Materials</i> , 0, 806, 161-166.	0.4	5
44	Investigation of the Mechanism of Electric Conductivity of Strontium Bismuthate $Sr_{6-x}Bi_{2-x}O_{11-x}$ . <i>Solid State Phenomena</i> , 0, 312, 32-37.	0.3	1