

Igor L Martynov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optical Properties and Upconversion Luminescence of BaTiO ₃ Xerogel Structures Doped with Erbium and Ytterbium. Gels, 2022, 8, 347.	2.1	4
2	PbS Quantum Dots with Inorganic Ligands: Physical Modeling of the Charge and Excitation Transport in Photovoltaic Cells. Journal of Physical Chemistry C, 2021, 125, 6020-6025.	1.5	4
3	New Unsymmetrically Substituted Benzothiadiazole-Based Luminophores: Synthesis, Optical, Electrochemical Studies, Charge Transport, and Electroluminescent Characteristics. Molecules, 2021, 26, 7596.	1.7	5
4	Enhancement of spontaneous emission of semiconductor quantum dots inside one-dimensional porous silicon photonic crystals. Optics Express, 2020, 28, 22705.	1.7	29
5	Optimization of Excitation and Detection Modes to Detect Ultra-Small Amounts of Semiconductor Quantum Dots Based on Cadmium Selenide. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.2843140gBT /Over	0.2	4
6	The Embedment of Conjugated MDMO~PPV Polymer in Microcavities of Porous Silicon at Excess Pressure from Solution. Technical Physics Letters, 2018, 44, 392-394.	0.2	4
7	Effect of temperature on properties of explosives sensor based on porous silicon microcavity with an embedded conjugated polymer. , 2018, , .		0
8	Ligand-Mediated Photobrightening and Photodarkening of CdSe/ZnS Quantum Dot Ensembles. Journal of Physical Chemistry C, 2018, 122, 15761-15771.	1.5	39
9	Porous silicon microcavities with embedded conjugated polymers for explosives detection. , 2018, , .		1
10	Comparison of fluorescence excitation modes for cdse semi-conductor quantum dots used in medical research. Bulletin of Russian State Medical University, 2018, , 39-45.	0.3	0
11	Modeling of the optical properties of porous silicon photonic crystals in the visible spectral range. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 79-82.	0.2	2
12	The influence of the quantum dot/polymethylmethacrylate composite preparation method on the stability of its optical properties under laser radiation. Optics and Spectroscopy (English Translation) Tj ETQq0 0 0 0gBT /Overlock 10 Tf 5	0.2	0
13	Silicon photonic structures with embedded polymers for novel sensing methods. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 74-78.	0.2	6
14	Optoelectronic Properties of Semiconductor Quantum Dot Solids for Photovoltaic Applications. Journal of Physical Chemistry Letters, 2017, 8, 4129-4139.	2.1	71
15	Influence of the surface ligand molecules length on the optical properties and photoconductivity of PbS quantum dot condensates. Technical Physics Letters, 2017, 43, 879-881.	0.2	5
16	Fabrication of composite materials from semiconductor quantum dots and organic polymers for optoelectronics and biomedicine: role of surface ligands. Russian Chemical Bulletin, 2016, 65, 2568-2577.	0.4	11
17	A new approach for detection of explosives based on ion mobility spectrometry and laser desorption/ionization on porous silicon. Proceedings of SPIE, 2016, , .	0.8	0
18	Modulation of quantum dot photoluminescence in porous silicon photonic crystals as a function of the depth of their penetration. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
19	Influence of electro-chemical etching parameters on the reflectance spectra of porous silicon rugate filters. <i>Journal of Physics: Conference Series</i> , 2016, 737, 012026.	0.3	6
20	Porous Silicon Microcavity Modulates the Photoluminescence Spectra of Organic Polymers and Quantum Dots. <i>Materials Today: Proceedings</i> , 2016, 3, 485-490.	0.9	8
21	Photoconductivity of composites based on CdSe quantum dots and low-band-gap polymers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 79, 206-211.	1.3	16
22	Dissociation of Trinitrotoluene on the Surface of Porous Silicon Under Laser Irradiation. <i>Physics Procedia</i> , 2015, 73, 159-162.	1.2	1
23	Surface-Assisted Laser Desorption/Ionization of Trinitrotoluene on Porous Silicon under Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6382-6388.	1.5	9
24	Luminescence-kinetic spectroscopy of compound complexes of polyphenylquinolines. <i>Semiconductors</i> , 2015, 49, 959-961.	0.2	0
25	Effects of surface ligands and solvents on quantum dot photostability under pulsed UV laser irradiation. , 2015, , .		1
26	Enhancement of Spontaneous Emission from CdSe/CdS/ZnS Quantum Dots at the Edge of the Photonic Band Gap in a Porous Silicon Bragg Mirror. <i>Physics Procedia</i> , 2015, 73, 126-130.	1.2	18
27	Ionization of the Nitroaromatic Compounds in an Ion Mobility Spectrometer with an Ion Source based on Porous Silicon Under Laser Irradiation. <i>Physics Procedia</i> , 2015, 73, 163-167.	1.2	4
28	Influence of Surface Ligands on the Luminescent Properties of Cadmium Selenide Quantum Dots in a Polymethylmethacrylate Matrix. <i>Physics Procedia</i> , 2015, 73, 150-155.	1.2	5
29	The mechanism of laser-stimulated desorption/ionization of nitroaromatic compounds from a nanoporous silicon surface at atmospheric pressure. <i>Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rg8T /Overlo</i>	1.2	5
30	Hybrid bulk heterojunction solar cells based on low band gap polymers and CdSe nanocrystals. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
31	Effect of surface ligands on the performance of organic light-emitting diodes containing quantum dots. <i>Proceedings of SPIE</i> , 2014, , .	0.8	7
32	Photoluminescence of CdSe/ZnS quantum dots in a porous silicon microcavity. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
33	Hybrid heterostructures based on aromatic polyimide and semiconductor CdSe quantum dots for photovoltaic applications. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	27
34	The photophysics of porous silicon: technological and biomedical implications. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13890.	1.3	30
35	Ion mobility spectrometer with ion source based on laser-irradiated porous silicon. <i>Technical Physics Letters</i> , 2011, 37, 15-18.	0.2	14
36	Formation of anions of nitroaromatic compounds in gases during UV laser irradiation. <i>Russian Journal of Physical Chemistry B</i> , 2010, 4, 548-556.	0.2	5

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37	A laser ion-mobility spectrometer. Instruments and Experimental Techniques, 2009, 52, 253-259.	0.1	9
38	Laser-induced photoprocesses in solutions and films of the CdSe/ZnS nanoparticles. Laser Physics, 2008, 18, 925-938.	0.6	7
39	<title>Anti-Stokes photoluminescence of CdSe/ZnS nanoparticles in solution and condensed phase</title>. , 2007, , .		0
40	<title>Laser induced luminescence of dense films of CdSe/ZnS nanoparticles</title>. , 2007, , .		1
41	Interaction of CdSe/ZnS core-shell semiconductor nanocrystals in solid thin films. Laser Physics, 2006, 16, 1625-1632.	0.6	28