Yuri Malyukin

List of Publications by Year
in descending order

103	1,086	430442	525886
papers	citations	18 h-index	27 g-index

105	105	105	1019
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanism and Dynamics of Fast Redox Cycling in Cerium Oxide Nanoparticles at High Oxidant Concentration. Journal of Physical Chemistry C, 2021, 125, 4743-4749.	1.5	22
2	Switching the type of redox activity of colloidal nanoceria by Re3+ (ReÂ=ÂY, Eu, Tb) doping. Chemical Physics Letters, 2021, 767, 138363.	1.2	10
3	Light-triggered redox activity of GdYVO4:Eu3+ nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118741.	2.0	8
4	X-ray Induced Hydroxyl Radical Generation by GdYVO4:Eu3+ Nanoparticles in Aqueous Solution: Main Mechanisms. Crystals, 2020, 10, 370.	1.0	4
5	Dark Reactive Oxygen Species Generation in ReVO₄:Eu³⁺ (Re = Gd, Y) Nanoparticles in Aqueous Solutions. Journal of Physical Chemistry C, 2020, 124, 3843-3850.	1.5	29
6	Plasmon-Induced Suppression of Exciton Self-Trapping in Polymer-Bound Pseudoisocyanine J-Aggregates. Journal of Physical Chemistry C, 2020, 124, 10167-10174.	1.5	5
7	Plasmon-Enhanced Fluorescence of Carbocyanine J-Aggregates in Layered Polymer Films. , 2020, , .		0
8	Unusual enhancement of dye luminescence by exciton resonance of J-Aggregates. Optical Materials, 2019, 96, 109263.	1.7	3
9	Catalytic Decomposition of Hypochlorite Anions by Ceria Nanoparticles Visualized by Spectroscopic Techniques. Journal of Physical Chemistry C, 2019, 123, 20675-20681.	1.5	11
10	Wavelengthâ€Selective Photoreduction of Colloidal CeO 2â€“ x Nanocrystals. Physica Status Solidi (B): Basic Research, 2019, 256, 1900325.	0.7	6
11	Janus-Faced Redox Activity of LnVO₄:Eu³⁺ (Ln = Gd, Y, and La) Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 15323-15329.	1.5	19
12	Different Roles of Ce3+ Optical Centers in Oxyorthosilicate Nanocrystals at X-ray and UV Excitation. Crystals, 2019, 9, 114.	1.0	4
13	Exciton Dynamics and Self-Trapping of Carbocyanine J-Aggregates in Polymer Films. Journal of Physical Chemistry C, 2019, 123, 9428-9444.	1.5	23
14	Anomalous enhancement of radioluminescence in Lu2-xYxSiO5:Ce3+ and ZnxMg1-xWO4 mixed oxide nanocrystals. Optical Materials, 2019, 98, 109455.	1.7	3
15	Insight into the mechanism of the photoluminescence of carbon nanoparticles derived from cryogenic studies. Nanoscale, 2018, 10, 9320-9328.	2.8	21
16	Strong difference between optical properties and morphologies for J-Aggregates of similar cyanine dyes. Dyes and Pigments, 2018, 152, 49-53.	2.0	18
17	Reactive oxygen species generation in aqueous solutions containing GdVO4:Eu3+ nanoparticles and their complexes with methylene blue. Nanoscale Research Letters, 2018, 13, 100.	3.1	27
18	Hydrogen peroxide sensing using Ce3+ luminescence of cerium oxide (CeO2-x) nanoparticles. Optical Materials, 2018, 85, 303-307.	1.7	18

#	Article	IF	Citations
19	Limitations of Self-Regenerative Antioxidant Ability of Nanoceria Imposed by Oxygen Diffusion. Journal of Physical Chemistry C, 2018, 122, 16406-16411.	1.5	20
20	Excimer Emission of Acridine Orange Adsorbed on Gadolinium-Yttrium Orthovanadate Nanoparticles. Journal of Fluorescence, 2018, 28, 943-949.	1.3	3
21	Molecular Arrangement in Cyanine Dye J-Aggregates Formed on CeO₂ Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 20996-21003.	1.5	12
22	Energy migration processes in phosphate nanocrystals: Size and dimensionality dependence. Low Temperature Physics, 2018, 44, 438-443.	0.2	1
23	Modification of the luminescent characteristics belonging to the molecule that interacts with the exciton states of the J-aggregate. Low Temperature Physics, 2017, 43, 416-420.	0.2	3
24	Processes of excitation energy transport in EuPO4 and EuP3O9 nanocrystals. Low Temperature Physics, 2017, 43, 1009-1012.	0.2	5
25	Low-temperature spectroscopy of optical centers in cerium-yttrium (Ce1-xYxO2-x/2) and cerium-zirconium (Ce1-xZrxO2) oxides. Low Temperature Physics, 2017, 43, 636-640.	0.2	12
26	Processes of energy migration in mixed europiumâ€“lanthanum magnesium borate nanocrystals. Spectroscopy Letters, 2017, 50, 399-403.	0.5	3
27	Defect and intrinsic luminescence of CeO₂nanocrystals. Physica Status Solidi (B): Basic Research, 2017, 254, 1600488.	0.7	19
28	Oscillations of Cerium Oxidation State Driven by Oxygen Diffusion in Colloidal Nanoceria (CeO2Ââ‹…Âx). Nanoscale Research Letters, 2017, 12, 566.	3.1	29
29	Features of exciton dynamics in molecular nanoclusters (J-aggregates): Exciton self-trapping (Review Article). Low Temperature Physics, 2016, 42, 429-440.	0.2	31
30	Influence of Zr-doping on the luminescence properties of ceria nanocrystals. , 2016, , .		0
31	Synthesis and characterization of mesoporous CaCO3@PSS microspheres as a depot system for sustained Methylene Blue delivering. Microporous and Mesoporous Materials, 2016, 236, 120-128.	2.2	17
32	Development of Nanocomposite Alpha-Detectors Based on Silica Matrices and Organic Scintillators. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 415-419.	0.5	0
33	Kinetic and Thermodynamic Stability of Organic and Inorganic Nanocarriers. Journal of Applied Spectroscopy, 2015, 82, 200-207.	0.3	0
34	Radioprotective Effect of CeO2 and GdEuVO4 Nanoparticles in â€œIn Vivoâ€•Experiments. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 193-197.	0.5	5
35	Effects of orthovanadate-based nanoparticles of various sizes on the aggregation behavior of polymethine dyes in aqueous solutions. Chemical Physics Letters, 2015, 621, 46-51.	1.2	9
36	Effect of inorganic nanoparticles and organic complexes on their basis on free-radical processes in some model systems. Biopolymers and Cell, 2015, 31, 138-145.	0.1	3

#	Article	IF	Citations
37			

#	Article	IF	Citations
55	Influence of Dye Hydrophobicity on the Efficiency of Fluorescence Resonance Energy Transfer Between Dyes in Surfactant Micelles. Molecular Crystals and Liquid Crystals, 2011, 535, 204-211.	0.4	4
56	Estimation of luminescent properties of the derivatives of polymethine probes on their interaction with cells of different types. Biophysics (Russian Federation), 2011, 56, 250-256.	0.2	0
57	A study of the effect of adrenaline on the transmembrane potential of the plasma membrane of hepatocytes from rats of different age using fluorescent probes. Biophysics (Russian Federation), 2011, 56, 452-456.	0.2	0
58	Excitation localization effects in nanoscale molecular clusters (J-aggregates). Low Temperature Physics, 2011, 37, 157-162.	0.2	7
59	Manifestation of Exciton-Lattice Interaction in J-Aggregates. Molecular Crystals and Liquid Crystals, 2011, 535, 57-63.	0.4	8
60	Nano-scale liposomal container with a Â«signal systemÂ» for substances delivering in living cells. Biopolymers and Cell, 2011, 27, 47-52.	0.1	3
61	Effect of hydrophobicity of cationic carbocyanine dyes DiOC n on their binding to anionic surfactant micelles. Journal of Applied Spectroscopy, 2010, 77, 183-188.	0.3	6
62	Control of Exciton Migration Efficiency in Disordered J-Aggregates. Journal of Physical Chemistry C, 2010, 114, 1299-1305.	1.5	29
63	Study of exciton transport in luminescent molecular nanoclusters using energy traps. Theoretical and Experimental Chemistry, 2009, 45, 58-62.	0.2	2
64	Mechanism of energy transfer in Sr2CeO4:Eu3+ phosphor. Optical Materials, 2009, 31, 1808-1810.	1.7	43
65	Effect of coactivation with Dy3+ and Yb3+ ions on the efficiency of energy storage in Lu2SiO5:Ce3+ crystals. Technical Physics Letters, 2009, 35, 154-157.	0.2	8
66	Coherent Mechanism of Exciton Transport in Disordered J-Aggregates. Journal of Physical Chemistry C, 2009, 113, 12883-12887.	1.5	23
67	Newly synthesized carbocyanine fluorescent probes, their characteristics and behavior in proliferating cultures. Biopolymers and Cell, 2009, 25, 484-490.	0.1	2
68	Hydrophobicity effect on interactions between organic molecules in nanocages of surfactant micelle. Journal of Applied Spectroscopy, 2008, 75, 658-663.	0.3	14
69	Squaraine Dye as an Exciton Trap for Cyanine J-Aggregates in a Solution. Journal of Physical Chemistry C, 2008, 112, 20458-20462.	1.5	21
70	Anomalous Surfactant-Induced Enhancement of Luminescence Quantum Yield of Cyanine Dye J-Aggregates. Journal of Physical Chemistry C, 2008, 112, 14762-14768.	1.5	56
71	Strong quenching of Y2SiO5:Pr3+ nanocrystal luminescence by praseodymium nonuniform distribution. Physica Status Solidi (B): Basic Research, 2007, 244, 3325-3332.	0.7	11
72	Accumulation of oxacarbocyanine dyes with different alkyl chain length in bone marrow cells and hepatocytes. Biophysics (Russian Federation), 2007, 52, 406-411.	0.2	5

#	Article	IF	Citations
73	Concentration quenching anomalies of activated Y2SiO5:Pr3+ nanocrystal luminescence. Laser Physics, 2007, 17, 491-495.	0.6	6
74	Specificity of Cyanine Dye L-21 Aggregation in Solutions with Nucleic Acids. Journal of Fluorescence, 2007, 17, 370-376.	1.3	27
75	Pseudoisocyanine J-Aggregate to Optical Waveguiding Crystallite Transition:Â Microscopic and Microspectroscopic Exploration. Journal of Physical Chemistry B, 2006, 110, 17772-17775.	1.2	30
76	Coexistence of free and self-trapped excitons in disordered J-aggregates. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3386-3393.	0.8	15
77	Anomalies in the concentration quenching of luminescence in doped Y2SiO5:Pr3+ nanocrystals. JETP Letters, 2006, 84, 180-184.	0.4	2
78	Nonradiative energy transfer in carbocyanine dye compositions inside surfactant micelles. Journal of Applied Spectroscopy, 2006, 73, 164-170.	0.3	1
79	Optical Spectroscopy on Individualamphi-PIC J-Aggregates. Nano Letters, 2005, 5, 2635-2640.	4.5	70
80	AMPHI-PIC J-Aggregates: Degree of Disordering and of Thermal Relaxation of Photoproduced Excitons. Journal of Computational and Theoretical Nanoscience, 2005, 2, 443-447.	0.4	0
81	<title>Investigation of interaction of optical centers Pr<formula>^{<roman>3+</roman>}</formula> in a Y<formula><inf><roman>2</roman></inf></formula>SiO<formula><inf><roman>5</roman></inf></formula>:Pr<formula><sup><ro crystal</title>. , 2004, 5402, 341.		0
82	The nature and mechanism of charging of electron traps in Lu2SiO5:Ce3+ crystals. Journal of Experimental and Theoretical Physics, 2004, 99, 386-393.	0.2	10
83	Two mechanisms of1D2 fluorescence quenching of Pr3+-doped Y2SiO5 crystal. Physica Status Solidi (B): Basic Research, 2003, 240, 655-662.	0.7	28
84	Features of low-temperature exciton dynamics inJ-aggregates with topological disorder. Low Temperature Physics, 2003, 29, 679-681.	0.2	1
85	Microscopic nature of Pr3+ optical centers in Y2SiO5, Lu2SiO5, and Gd2SiO5 crystals. Low Temperature Physics, 2002, 28, 774-779.	0.2	5
86	Echo spectroscopy of TLS of multiwell adiabatic potential for Pr3+activator centers in Y 2 SiO 5. , 2002, , .		0
87	Interaction of Pr3+ optical centers in the Y2SiO5 crystal. Low Temperature Physics, 2002, 28, 54-57.	0.2	8
88	Manifestation of quasi-symmetry of the cation sites of Gd2SiO5, Y2SiO5, and Lu2SiO5 in the spectra of the impurity ion Pr3+. Low Temperature Physics, 2001, 27, 574-578.	0.2	6
89	The nature of activation centers in Y2SiO5:Pr3+, Gd2SiO5:Pr3+, and Lu2SiO5:Pr3+ crystals. Journal of Experimental and Theoretical Physics, 2001, 93, 372-379.	0.2	5
90	Features of the luminescence kinetics of Pr3+ ions in the Y2SiO5 crystal. Low Temperature Physics, 2000, 26, 363-366.	0.2	2

#	Article	IF	Citations
91	Selective spectroscopy of Pr3+ impurity ions in Y2SiO5, Gd2SiO5, and Lu2SiO5 crystals. Low Temperature Physics, 2000, 26, 894-898.	0.2	4
92	Optical Absorption Spectroscopy of Strongly Disordered J-Aggregates: Control of Off-Diagonal Disorder. Molecular Crystals and Liquid Crystals, 2000, 348, 15-26.	0.3	6
93	Echo spectroscopy of two-level systems in a Y2SiO5: Pr3+ crystal. Journal of Experimental and Theoretical Physics, 1999, 88, 385-391.	0.2	5
94	Optical spectroscopy of disorder in molecular chains (J-aggregates). Low Temperature Physics, 1998, 24, 879-886.	0.2	17
95	Exciton Trapping Mechanism in Quasi-1D Molecular Chains (J-aggregates). Molecular Crystals and Liquid Crystals, 1998, 324, 267-273.	0.3	7
96	Low-temperature spectroscopy of nonequivalent Pr3+ optical centers in a Y2SiO5 crystal. Low Temperature Physics, 1998, 24, 432-436.	0.2	11
97	<title>Peculiarities of photon echo registration in a Y<formula><inf><roman>2</roman></inf></formula>SiO<formula><inf><roman>5</roman></inf></formula>:Pr<formula><sup><ro crystal</title>. , 1997, 3239, 325.		1
98	<title>New channel of photon echo signal relaxation in LaF<formula><inf><roman>3</roman></inf></formula>:Pr<formula>^{<roman>3+</roman>}</formula> crystal</title>. , 1997, , .		0
99	New channels of photon echo relaxation in Y2SiO5:Pr3+ and LaF3:Pr3+ crystals. Low Temperature Physics, 1997, 23, 746-749.	0.2	1
100	Time-resolved luminescent spectra of J-aggregates with exciton traps. Low Temperature Physics, 1997, 23, 351-353.	0.2	3
101	Exciton autolocalization in quino-2-monomethine cyanineJ-aggregates. Journal of Applied Spectroscopy, 1995, 62, 489-492.	0.3	0
102	Structure and spectroluminescence properties of derivatives of 1,8-naphthoylene-1',2-benzimidazole with substituents of various electronic types. Chemistry of Heterocyclic Compounds, 1995, 31, 557-562.	0.6	0
103	Optical superradiance in pyreneâ€doped biphenyl crystals and effect of phonons on its formation. Physica Status Solidi (B): Basic Research, 1986, 135, 503-512.	0.7	5