

Yurii V Orlovskii

List of Publications by Year in descending order

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80
papers

1,056
citations

393982

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454577

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80
docs citations

80
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Performance and Applications of Large Area Optical Thermometry Based on the Luminescence of Germanium Vacancy Defects in Diamond Nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000217.	0.8	2
2	Rare earth ions doped mixed crystals for fast quantum computers with optical frequency qubits. <i>Optics Communications</i> , 2021, 485, 126693.	1.0	14
3	Stable Aqueous Colloidal Solutions of Nd ³⁺ : LaF ₃ Nanoparticles, Promising for Luminescent Bioimaging in the Near-Infrared Spectral Range. <i>Nanomaterials</i> , 2021, 11, 2847.	1.9	5
4	Impurity fluorescence self-quenching in Nd ³⁺ : Gd ₃ BWO ₉ crystalline powders: Experiment and analysis. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153654.	2.8	5
5	Room Temperature Optical Thermometry Based on the Luminescence of the SiV Defects in Diamond. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2019, 126, 59-61.	0.2	2
6	Theoretical and experimental modeling of interstitial laser hyperthermia with surface cooling device using Nd ³⁺ -doped nanoparticles. <i>Lasers in Medical Science</i> , 2019, 34, 1421-1431.	1.0	1
7	Analysis of upconversion nanoparticles as an active medium for upconversion light sources. , 2019, , .		1
8	Concentration self-quenching of luminescence in crystal matrices activated by Nd ³⁺ ions: Theory and experiment. <i>Journal of Luminescence</i> , 2018, 198, 138-145.	1.5	15
9	Optomagnetic Nanoplatforms for In Situ Controlled Hyperthermia. <i>Advanced Functional Materials</i> , 2018, 28, 1704434.	7.8	59
10	On the use of twisted photons for spectroscopy of impurity centers in crystals. <i>Physical Review B</i> , 2018, 97, .	1.1	0
11	Comparison of concentration dependence of relative fluorescence quantum yield and brightness in first biological window of wavelengths for aqueous colloidal solutions of Nd ³⁺ : LaF ₃ and Nd ³⁺ : KY ₃ F ₁₀ nanocrystals synthesized by microwave-hydrothermal treatment. <i>Journal of Alloys and Compounds</i> , 2018, 756, 182-192.	2.8	20
12	Room temperature optical thermometry based on the luminescence of the SiV defects in diamond. <i>EPJ Web of Conferences</i> , 2018, 190, 04024.	0.1	0
13	Heating and Cooling Transients in the DyPO ₄ Nanocrystals under Femtosecond Laser Irradiation in the NIR Spectral Range. <i>Physics of Wave Phenomena</i> , 2018, 26, 198-206.	0.3	3
14	A Crystal Host Selection for Aqueous Colloidal Luminescent Nanocrystals Doped by Nd ³⁺ Used for Bioimaging in First Biological Window. , 2018, , .		0
15	VISUALIZATION OF Nd ³⁺ -DOPED LaF ₃ NANOPARTICLES FOR NEAR INFRARED BIOIMAGING VIA UPCONVERSION LUMINESCENCE AT MULTIPHOTON EXCITATION MICROSCOPY. <i>Biomedical Photonics</i> , 2018, 7, 4-12.	0.3	2
16	Experimental modeling of local laser hyperthermia using thermosensitive nanoparticles absorbing in NIR. , 2018, , .		0
17	NONINVASIVE ESTIMATION OF THE LOCAL TEMPERATURE OF BIOTISSUES HEATING UNDER THE ACTION OF LASER IRRADIATION FROM THE LUMINESCENCE SPECTRA OF Nd ³⁺ IONS. <i>Biomedical Photonics</i> , 2018, 7, 25-36.	0.3	3
18	Approaches to contactless optical thermometer in the NIR spectral range based on Nd ³⁺ doped crystalline nanoparticles. <i>Journal of Luminescence</i> , 2017, 183, 478-485.	1.5	14

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19	Relation of Crystallinity and Fluorescent Properties of LaF ₃ :Nd ³⁺ Nanoparticles Synthesized with Different Water-Based Techniques. ChemistrySelect, 2017, 2, 4874-4881.	0.7	19
20	From near IR to terahertz photon emission in the LaF ₃ crystals heavily doped by Nd ³⁺ ; the use of the Dicke and the Purcell effects. Journal of Luminescence, 2017, 181, 88-90.	1.5	0
21	Rare-earth doped nanocrystals as an active medium for terahertz stimulated emission. , 2016, , .		0
22	Subtissue Imaging and Thermal Monitoring of Gold Nanorods through Joined Encapsulation with Nd ³⁺ -Doped Infrared-Emitting Nanoparticles. Small, 2016, 12, 5394-5400.	5.2	37
23	NIR fluorescence quenching by OH acceptors in the Nd ³⁺ doped KY ₃ F ₁₀ nanoparticles synthesized by microwave-hydrothermal treatment. Journal of Alloys and Compounds, 2016, 661, 312-321.	2.8	13
24	Testing nanocrystalline CdWO ₄ doped with Yb ³⁺ as a possible down-conversion phosphor. Radiation Measurements, 2016, 90, 329-333.	0.7	9
25	Fluorescence quenching mechanism for water-dispersible Nd ³⁺ :KYF ₄ nanoparticles synthesized by microwave-hydrothermal technique. Journal of Luminescence, 2016, 169, 722-727.	1.5	17
26	Neodymium-doped nanoparticles for infrared fluorescence bioimaging: The role of the host. Journal of Applied Physics, 2015, 118, .	1.1	102
27	Phase composition and morphology of nanoparticles of yttrium orthophosphates synthesized by microwave-hydrothermal treatment: The influence of synthetic conditions. Journal of Alloys and Compounds, 2015, 639, 415-421.	2.8	39
28	Laser heating of the Y _{1-x} Dy _x PO ₄ nanocrystals. Optical Materials Express, 2015, 5, 1230.	1.6	6
29	Nanoscaled Rare-Earth Doped Crystals Heater. , 2014, , .		0
30	Vacuum ultraviolet spectroscopic analysis of Ce ³⁺ -doped hexagonal YPO ₄ ·0.8H ₂ O based on exchange charge model. Journal of Luminescence, 2014, 152, 70-74.	1.5	15
31	Nanosecond fluctuation kinetics of luminescence hopping quenching originated from the 5d ₁ level in the Ce ³⁺ :YPO ₄ ·0.8H ₂ O nanocrystals. Journal of Luminescence, 2014, 145, 774-778.	1.5	6
32	An energy transfer kinetic probe for OH-quenchers in the Nd ³⁺ :YPO ₄ nanocrystals suitable for imaging in the biological tissue transparency window. Physical Chemistry Chemical Physics, 2014, 16, 26806-26815.	1.3	28
33	Luminescent properties of doped dielectric nanocrystals. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.2	2
34	Fluctuation kinetics of fluorescence hopping quenching in the Nd ³⁺ :Y ₂ O ₃ spherical nanoparticles. Journal of Luminescence, 2013, 139, 91-97.	1.5	25
35	Effect of synthesis conditions of the micro- and mesostructure of monodisperse Y(OH)CO ₃ powders. Doklady Chemistry, 2012, 446, 207-211.	0.2	2
36	First-principles study of the local structure and crystal field of Yb ²⁺ in sodium and potassium halides. Chinese Physics B, 2012, 21, 037102.	0.7	1

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37	Radiative properties of lanthanide and transition metal ions in nanocrystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 111, 386-392.	0.2	5
38	Synthesis and study of the properties of $K_2Y_1-x-yEu_xTb_y(MoO_4)(PO_4)$ and $K_2Y_1-x-yEu_xTb_y(MoO_4)(PO_4)1-x-y(VO_4)$ solid solutions. Russian Journal of Inorganic Chemistry, 2011, 56, 1943-1950.	0.3	4
39	Energy transfer probe for the characterization of luminescent photonic crystals morphology. Journal of Luminescence, 2011, 131, 449-452.	1.5	5
40	Fluctuation kinetics of the hopping fluorescence quenching in disordered solid solutions: A theoretical model and experimental evidence. Journal of Luminescence, 2011, 131, 2409-2413.	1.5	9
41	Low-phonon BaF ₂ : Ho ³⁺ , Tm ³⁺ doped crystals for 3.5-4.1 μm lasing. Optical Materials, 2010, 32, 599-611.	1.7	11
42	Microwave synthesis of monodisperse luminescent Y _{2-x} Eu _x O ₃ powders with spherical particles of predetermined size. Doklady Chemistry, 2010, 435, 289-293.	0.2	3
43	Kinetics of the direct energy transfer of optical excitation in crystalline nanoparticles: Theory and Monte Carlo computer simulation. Nanotechnologies in Russia, 2009, 4, 722-731.	0.7	12
44	Spontaneous and induced emission in dielectric nanoparticles. Nanotechnologies in Russia, 2008, 3, 551-559.	0.7	13
45	Multiphonon relaxation in fluoride and ternary sulfide laser crystals with neodymium ions. Journal of Experimental and Theoretical Physics, 2008, 106, 661-667.	0.2	1
46	Spontaneous emission in dielectric nanoparticles. JETP Letters, 2008, 88, 12-18.	0.4	48
47	Conversion of the luminescence of laser dyes in opal matrices to stimulated emission. Quantum Electronics, 2008, 38, 665-669.	0.3	11
48	Optical fluoride nanoceramic. Journal of Optical Technology (A Translation of Opticheski Zhurnal), 2008, 75, 728.	0.2	5
49	Light-controlled band shift in synthetic opals filled with an optically nonlinear dye solution. Quantum Electronics, 2008, 38, 37-40.	0.3	0
50	Stimulated emission of laser dyes in opal - like matrix (photonic crystal) under nanosecond pulsed laser excitation. , 2008, , .		0
51	Bistable response from synthetic opal photonic crystals: schemes of realization. Proceedings of SPIE, 2007, , .	0.8	0
52	Oxysulfide optical ceramics doped by Nd ³⁺ for one micron lasing. Journal of Luminescence, 2007, 125, 201-215.	1.5	25
53	Mid-IR transitions of trivalent neodymium in low phonon laser crystals. Optical Materials, 2007, 29, 1115-1128.	1.7	25
54	New Regularity of Multiphonon Relaxation in Rare Earth Doped Laser Crystals. , 2007, , .		0

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55	Experimental preparation of entangled Bell's vacuum single exciton and vacuum biexciton states for pair centers of neodymium ions in a crystal. Optics Communications, 2006, 259, 298-303.	1.0	8
56	Continuously tunable cw lasing near 2.75 μm in diode-pumped Er ³⁺ : SrF ₂ and Er ³⁺ : CaF ₂ crystals. Quantum Electronics, 2006, 36, 591-594.	0.3	49
57	Pulsed mid-IR Cr ²⁺ :ZnS and Cr ²⁺ :ZnSe lasers pumped by Raman-shifted Q-switched neodymium lasers. Quantum Electronics, 2004, 34, 8-14.	0.3	27
58	Nanophotonic structures on the basis of the ordered ensembles bacteriorhodopsin-opal matrix-substrate. , 2004, , .		0
59	Direct nanosecond Nd ³⁺ /Ce nonradiative energy transfer in cerium trifluoride laser crystals. Journal of Luminescence, 2003, 101, 211-218.	1.5	5
60	Cooperative optical phenomena in praseodymium doped CsCdBr ₃ . , 2002, , .		2
61	Inhomogeneous broadening of the dynamically split Kramers spectral line and up-conversion in the pair and quartet centers in CaF ₂ :Nd ³⁺ . , 2002, , .		0
62	Temperature dependencies of excited states lifetimes and relaxation rates of ν_5 phonon ($4\text{--}6\ \mu\text{m}$) transitions in the YAG, LuAG and YLF crystals doped with trivalent holmium, thulium, and erbium. Optical Materials, 2002, 18, 355-365.	1.7	14
63	Inhomogeneous broadening of the dynamically split Kramers spectral line and up-conversion in the pair and quartet centers in CaF ₂ :Nd ³⁺ . Journal of Luminescence, 2002, 99, 223-236.	1.5	10
64	Multiphonon relaxation of mid-IR transitions of rare-earth ions in the crystals with fluorite structure. Journal of Luminescence, 2001, 94-95, 791-795.	1.5	20
65	Dynamic splitting of high-lying excited state of cluster centers in the Nd ³⁺ doped crystals with fluorite structure. Journal of Luminescence, 2001, 94-95, 123-126.	1.5	7
66	Fluorescence line narrowing (FLN) and site-selective fluorescence decay of Nd ³⁺ centers in CaF ₂ . Journal of Luminescence, 1999, 82, 251-258.	1.5	32
67	Nonradiative relaxation and inhomogeneous splitting of aggregated optical centers in the Nd ³⁺ -doped CaF ₂ and SrF ₂ crystals (FLN and decay study). Journal of Luminescence, 1999, 83-84, 361-366.	1.5	12
68	<title>Laser-induced fluorescence spectrometer based on solid state tunable color-center laser for heavy metal analysis</title>. , 1999, , .		0
69	Novel laser breakdown spectrometer for environmental monitoring. , 1999, 3855, 34.		3
70	Fluorescence quenching of the Nd ³⁺ ions in different optical centers in fluorite-type crystals. Journal of Luminescence, 1998, 76-77, 371-376.	1.5	19
71	Multiphonon relaxation of the electronic excitation energy of rare-earth ions in laser crystals. Journal of Luminescence, 1998, 76-77, 586-590.	1.5	13
72	<title>Laser-induced fluorescence spectrometer based on tunable color center laser for low-impurity-solution diagnostic and analysis</title>. , 1996, , .		1

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73	Nature of electron excitation-energy transfer Cr ³⁺ →Tr ³⁺ in garnet crystals. , 1996, 2706, 14.		0
74	Multiphonon relaxation rates measurements and theoretical calculations in the frame of non-linear and non-Coulomb model of a rare-earth ion-ligand interaction. Journal of Luminescence, 1996, 68, 241-253.	1.5	33
75	High-order multipole interaction in nanosecond Nd ³⁺ →Nd energy transfer. Journal of Luminescence, 1996, 69, 187-202.	1.5	20
76	Nonlinear mechanism of multiphonon relaxation of the energy of electronic excitation in optical crystals doped with rare-earth ions. Optical Materials, 1995, 4, 583-595.	1.7	39
77	Nature of the transfer of the electronic excitation energy from Cr ³⁺ to rare-earth ions in garnet crystals. Quantum Electronics, 1995, 25, 729-734.	0.3	4
78	Multiple-phonon nonradiative relaxation: Experimental rates in fluoride crystals doped with Er ³⁺ and Nd ³⁺ ions and a theoretical model. Physical Review B, 1994, 49, 3821-3830.	1.1	60
79	Multiphonon nonradiative relaxation from high-lying levels of Nd ³⁺ ions in fluoride and oxide laser materials. Journal of Luminescence, 1992, 53, 19-23.	1.5	31
80	Spontaneous and Stimulated Transitions in Impurity Dielectric Nanoparticles. , 0, , .		2