

Anatolijs Sarakovskis

List of Publications by Year in descending order

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81
papers

874
citations

567281

15
h-index

552781

26
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81
all docs

81
docs citations

81
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Europium doped zirconia luminescence. <i>Optical Materials</i> , 2010, 32, 827-831.	3.6	102
2	Intrinsic defect related luminescence in ZrO ₂ . <i>Journal of Luminescence</i> , 2011, 131, 2058-2062.	3.1	101
3	Upconversion luminescence in erbium doped transparent oxyfluoride glass ceramics containing hexagonal NaYF ₄ nanocrystals. <i>Journal of the European Ceramic Society</i> , 2015, 35, 3665-3671.	5.7	51
4	Up-conversion processes in NaLaF ₄ :Er ³⁺ . <i>Optical Materials</i> , 2009, 31, 1517-1524.	3.6	47
5	The role of Nb in intensity increase of Er ion upconversion luminescence in zirconia. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	28
6	Interaction of a liquid gallium jet with the tokamak ISTTOK edge plasma. <i>Fusion Engineering and Design</i> , 2008, 83, 102-111.	1.9	27
7	Up-conversion luminescence dependence on structure in zirconia nanocrystals. <i>Optical Materials</i> , 2013, 35, 462-466.	3.6	27
8	Crystallization and upconversion luminescence of distorted fluorite nanocrystals in Ba ²⁺ containing oxyfluoride glass ceramics. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1715-1722.	5.7	24
9	Time-resolved luminescence and excitation spectroscopy of co-doped Gd ₃ Ga ₃ Al ₂ O ₁₂ scintillating crystals. <i>Scientific Reports</i> , 2020, 10, 20388.	3.3	24
10	Time-resolved luminescence of YAG:Ce and YAGG:Ce ceramics prepared by electron beam assisted synthesis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 479, 222-228.	1.4	23
11	Defect-induced blue luminescence of hexagonal boron nitride. <i>Diamond and Related Materials</i> , 2016, 68, 131-137.	3.9	22
12	Oxygen influence on luminescence properties of rare-earth doped NaLaF ₄ . <i>Journal of Luminescence</i> , 2016, 179, 16-20.	3.1	21
13	Comprehensive study on different crystal field environments in highly efficient NaLaF ₄ :Er ³⁺ upconversion phosphor. <i>Optical Materials</i> , 2015, 39, 90-96.	3.6	19
14	Ordering of fluorite-type phases in erbium-doped oxyfluoride glass ceramics. <i>Journal of the European Ceramic Society</i> , 2018, 38, 235-243.	5.7	19
15	Upconversion luminescence of a transparent glass ceramics with hexagonal Na(Cd,Lu)F ₄ nanocrystals. <i>Journal of Alloys and Compounds</i> , 2017, 694, 952-958.	5.5	17
16	Membrane-less amphoteric decoupled water electrolysis using WO ₃ and Ni(OH) ₂ auxiliary electrodes. <i>Energy and Environmental Science</i> , 2022, 15, 2021-2028.	30.8	16
17	Rare earth doped glass-ceramics containing NaLaF ₄ nanocrystals. <i>Optical Materials</i> , 2016, 59, 130-135.	3.6	15
18	Tribovoltaic Device Based on the W/WO ₃ Schottky Junction Operating through Hot Carrier Extraction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14212-14220.	3.1	14

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19	Spectroscopic studies of Cr ³⁺ ions in natural single crystal of magnesium aluminate spinel MgAl ₂ O ₄ . <i>Optical Materials</i> , 2021, 121, 111496.	3.6	14
20	Sub-band-gap-excited luminescence of localized states in SiO ₂ -Si and SiO ₂ -Al glasses. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 982-986.	3.1	13
21	Excited state absorption and energy-transfer mechanisms of up-conversion luminescence in Er ³⁺ -doped oxyfluoride glass ceramics at different temperatures. <i>Journal of Luminescence</i> , 2010, 130, 805-811.	3.1	12
22	Phase transitions and upconversion luminescence in oxyfluoride glass ceramics containing Ba ₄ Gd ₃ F ₁₇ nanocrystals. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1713-1722.	5.7	12
23	The time-resolved luminescence characteristics of Ce and Ce/Pr doped YAG ceramics obtained by high pressure technique. <i>Optical Materials</i> , 2012, 34, 986-989.	3.6	11
24	Luminescence of dense, octahedral structured crystalline silicon dioxide (stishovite). <i>Journal of Luminescence</i> , 2011, 131, 2273-2278.	3.1	10
25	Rare Earth Activated Oxyfluoride Glasses and Glass-Ceramics for Scintillation Applications. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2201-2206.	2.0	10
26	Cubic and rhombohedral Ba ₄ Lu ₃ F ₁₇ :Er ³⁺ in transparent glass ceramics: Crystallization and upconversion luminescence. <i>Journal of Luminescence</i> , 2018, 200, 265-273.	3.1	10
27	Upconversion luminescence of Er ³⁺ /Yb ³⁺ and their role in the stabilization of cubic NaLaF ₄ nanocrystals in transparent oxyfluoride glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018, 481, 335-343.	3.1	10
28	Influence of boron on the essential properties for new generation scintillators. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160002.	5.5	9
29	Low-temperature studies of Cr ³⁺ ions in natural and neutron-irradiated g-Al spinel. <i>Low Temperature Physics</i> , 2020, 46, 1154-1159.	0.6	9
30	Sol-gel assisted molten-salt synthesis of novel single phase Y ₃ Ca ₂ TaxAl ₅ xO ₁₂ :1%Eu garnet structure phosphors. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161889.	5.5	8
31	X-irradiation induced photo- and thermostimulated luminescence of CsCdF ₃ :Mn crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 511-514.	0.8	7
32	Liquid gallium jet-plasma interaction studies in ISTTOK tokamak. <i>Journal of Nuclear Materials</i> , 2009, 390-391, 938-941.	2.7	7
33	Analysis of Mn ²⁺ EPR spectral shapes for studies of the oxyfluoride glass ceramics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 23, 012018.	0.6	7
34	Cathodoluminescence of oxyfluoride glass-ceramics. <i>Radiation Measurements</i> , 2013, 56, 120-123.	1.4	7
35	Photoluminescence of neodymium and erbium doped NaLaF ₄ material. <i>Radiation Measurements</i> , 2013, 56, 27-30.	1.4	7
36	Enhanced Electrochemical Properties of Na _{0.67} MnO ₂ Cathode for Na-Ion Batteries Prepared with Novel Tetrabutylammonium Alginate Binder. <i>Batteries</i> , 2022, 8, 6.	4.5	7

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37	EIS characterization of aging and humidity-related behavior of Bi ₂ Se ₃ films of different morphologies. Nano Structures Nano Objects, 2022, 30, 100847.	3.5	7
38	Optical properties of oxygen-containing yttrium hydride thin films during and after the deposition. Vacuum, 2022, 203, 111218.	3.5	7
39	EPR and optical spectroscopy of neutron-irradiated Gd ₃ Ga ₅ O ₁₂ single crystals. Nuclear Instruments & Methods in Physics Research B, 2020, 480, 22-26.	1.4	6
40	Selective excitation of up-conversion luminescence by Yb ³⁺ →Er ³⁺ energy transfer in glass and crystalline phase of oxyfluoride glass ceramics. Optical Materials, 2010, 32, 832-835.	3.6	5
41	The role of disorder on Er ³⁺ luminescence in Na _{1/2} Bi _{1/2} TiO ₃ . Journal of Alloys and Compounds, 2018, 762, 326-333.	5.5	5
42	Fine-Tuning Solid State Luminescence Properties of Organic Crystals via Solid Solution Formation: The Example of 4-Iodothioxanthone→4-Chlorothioxanthone System. Crystal Growth and Design, 2022, 22, 4838-4844.	3.0	5
43	AlGaInGaInGaN Near Ultraviolet Light Emitting Diode. Latvian Journal of Physics and Technical Sciences, 2008, 45, 25-32.	0.6	4
44	Characteristics of the Mn ²⁺ EPR spectra in the oxyfluoride glass ceramics containing SrF ₂ nanocrystals. IOP Conference Series: Materials Science and Engineering, 2012, 38, 012047.	0.6	4
45	Local structure studies of SrTi ¹⁶ O ₃ and SrTi ¹⁸ O ₃ . Physica Scripta, 2014, 89, 044002.	2.5	4
46	Impact of Er ³⁺ Concentration on Luminescence in NaLaF ₄ . Latvian Journal of Physics and Technical Sciences, 2014, 51, 42-50.	0.6	4
47	The role of structural disorder on luminescence of Eu-doped Na _{0.5} Bi _{0.5} TiO ₃ . Journal of Applied Physics, 2020, 128, 244104.	2.5	4
48	Novel Amorphous Red Electroluminescence Material Based on Pyranilidene Indene-1,3-Dione Derivative. Latvian Journal of Physics and Technical Sciences, 2010, 47, .	0.6	3
49	Novel synthesis of up-conversion phosphor based on rare-earth doped NaLaF ₄ . IOP Conference Series: Materials Science and Engineering, 2011, 23, 012003.	0.6	3
50	Multicolor Up-Conversion Luminescence in Rare-Earth Doped NaLaF ₄ . IOP Conference Series: Materials Science and Engineering, 2011, 23, 012004.	0.6	3
51	EPR spectra of the Mn ²⁺ ion in the oxyfluoride glass ceramics containing BaF ₂ nanocrystalline phase. IOP Conference Series: Materials Science and Engineering, 2012, 38, 012046.	0.6	3
52	Up-conversion and Photoluminescence in Er ³⁺ Single Crystal MgAl-spinel. Physics Procedia, 2015, 76, 106-110.	1.2	3
53	Local Structure Studies of Ti for SrTi ¹⁶ O ₃ and SrTi ¹⁸ O ₃ by Advanced X-ray Absorption Spectroscopy Data Analysis. Ferroelectrics, 2015, 485, 42-52.	0.6	3
54	Temperature and impurity concentration effects on upconversion luminescence in LaInO ₃ doped with Er ³⁺ . Low Temperature Physics, 2016, 42, 576-579.	0.6	3

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55	Excitation and photoluminescence spectra of single- and non-single-phased phosphors based on LaInO_3 doped with Dy^{3+} , Ho^{3+} activators and Sb^{3+} probable sensitizer. <i>Journal of Luminescence</i> , 2017, 190, 298-308.	3.1	3
56	New low-temperature phosphate glasses as a host for Europium Ions. <i>Journal of Non-Crystalline Solids</i> , 2021, 569, 120966.	3.1	3
57	EPR studies of the oxyfluoride glass ceramics using Mn^{2+} as a paramagnetic probe. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 15, 012068.	0.6	3
58	Unraveling the Structure and Properties of Layered and Mixed ReO_3 – WO_3 Thin Films Deposited by Reactive DC Magnetron Sputtering. <i>ACS Omega</i> , 2022, 7, 1827-1837.	3.5	3
59	Investigation of Nonlinear Optical Processes in Mercury Sulfide Quantum Dots. <i>Nanomaterials</i> , 2022, 12, 1264.	4.1	3
60	Synthesis and Properties of Bismuth Selenide Based Nanolaminates for Application in Thermoelectrics. <i>Advanced Materials Interfaces</i> , 0, , 2200385.	3.7	3
61	Thermally and optically stimulated radiative processes in LiBaF_3 crystals. <i>Radiation Measurements</i> , 2004, 38, 611-614.	1.4	2
62	Up-conversion process in erbium doped lithium fluoride bulk crystal, lithium borate glass and glass ceramics. <i>Journal of Physics: Conference Series</i> , 2007, 93, 012041.	0.4	2
63	Synthesis of cubic and hexagonal $\text{NaYF}_4:\text{Er}^{3+}$. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 38, 012038.	0.6	2
64	Plasmonic photoluminescence enhancement by silver nanowires. <i>Physica Scripta</i> , 2015, 90, 094008.	2.5	2
65	Photoluminescence in Er-doped $0.4\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3-(0.6-x)\text{SrTiO}_3-x\text{PbTiO}_3$ solid solutions. <i>Ferroelectrics</i> , 2020, 567, 150-159.	3.5	2
66	EPR of radiation defects in lithium-oxyfluoride glass ceramics. <i>Journal of Physics: Conference Series</i> , 2010, 249, 012019.	0.4	1
67	Oxidation State and Local Structure of Chromium Ions in LaOCl . <i>Materials</i> , 2021, 14, 3539.	2.9	1
68	Tailoring of rhenium oxidation state in ReO_x thin films during reactive HiPIMS deposition process and following annealing. <i>Materials Chemistry and Physics</i> , 2022, 289, 126399.	4.0	1
69	Photostimulated recombination processes in x-irradiated $\text{CsCdF}_3:\text{Mn}$ crystals. , 2005, 5946, 112.		0
70	Laser ablation for analysis of nanoscale layers. <i>Journal of Physics: Conference Series</i> , 2007, 93, 012043.	0.4	0
71	Formation of deep acceptor centers in AlGaIn alloys. , 2008, , .		0
72	Temperature Effects in Up-Conversion Processes of Erbium - Ytterbium Doped Oxyfluoride Silicate Glass. <i>Latvian Journal of Physics and Technical Sciences</i> , 2008, 45, 47-54.	0.6	0

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73	Interaction of a Liquid Gallium Jet with ISTTOK Edge Plasmas. AIP Conference Proceedings, 2008, , .	0.4	0
74	Overview of Recent ISTTOK Results. AIP Conference Proceedings, 2008, , .	0.4	0
75	Plasma Spectroscopy in ISTTOK. AIP Conference Proceedings, 2008, , .	0.4	0
76	Localization dynamics of exciton luminescence in In _x Ga _{1-x} N epitaxial films. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012059.	0.6	0
77	Dynamics of exciton creation and decay processes in composition "disordered InGaN thin films. IOP Conference Series: Materials Science and Engineering, 2011, 23, 012001.	0.6	0
78	12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference on Functional Materials and Nanotechnologies (RCBJSF-2014-FM&NT). Physica Scripta, 2015, 90, 090301.	2.5	0
79	12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference on Functional Materials and Nanotechnologies (RCBJSF-2014-FM&NT). IOP Conference Series: Materials Science and Engineering, 2015, 77, 011001.	0.6	0
80	Excitation and photoluminescence spectra of solid solutions based on lanthanum indate LaInO ₃ of a perovskite structure doped with Nd ³⁺ and Cr ³⁺ ions. Glass Physics and Chemistry, 2016, 42, 379-385.	0.7	0
81	International Conference on Functional Materials and Nanotechnologies (FM&NT2012). IOP Conference Series: Materials Science and Engineering, 2012, 38, 011001.	0.6	0