Oleg Sidletskiy

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7595619/publications.pdf

Version: 2024-02-01

121 papers	1,669 citations	331670 21 h-index	434195 31 g-index
124 all docs	124 docs citations	124 times ranked	1022 citing authors

#	Article	IF	Citations
1	Composite Detectors Based on Single-Crystalline Films and Single Crystals of Garnet Compounds. Materials, 2022, 15, 1249.	2.9	12
2	Characterization of mixed Bi4(Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	4
3	New types of composite scintillators based on the single crystalline films and crystals of Gd3(Al,Ga)5O12:Ce mixed garnets. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114909.	3.5	5
4	The crystal growth of ortho- and pyrosilicates from W and Mo crucibles. CrystEngComm, 2021, 23, 360-367.	2.6	5
5	Structure and role of carbon-related defects in yttrium aluminum garnet. Optical Materials, 2021, 111, 110561.	3.6	8
6	Micro-pulling-down growth of long YAG- and LuAG-based garnet fibres: advances and bottlenecks. CrystEngComm, 2021, 23, 2633-2643.	2.6	9
7	Impact of Carbon Co-Doping on the Optical and Scintillation Properties of a YAG:Ce Scintillator. Crystal Growth and Design, 2021, 21, 3063-3070.	3.0	14
8	Development of Composite Scintillators Based on the LuAG: Pr Single Crystalline Films and LuAG:Sc Single Crystals. Crystals, 2021, 11, 846.	2.2	4
9	Effect of Carbon Doping on Fâ€Type Defects in YAG and YAG:Ce Crystals. Physica Status Solidi (B): Basic Research, 2021, 258, 2100325.	1.5	5
10	Radiation tolerant YAG: Ce scintillation crystals grown under reducing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e821" altimg="si3.svg"><mml:mrow><mml:mi mathvariant="normal">Ar</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">+</mml:mo><mml:mi mathvariant="normal">CO</mml:mi></mml:mrow></mml:math> atmosphere. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equip.	1.6	3
11	New efficient OSL detectors based on the crystals of Ce3+ doped Gd3Al5â‹xGaxO12 mixed garnet. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115448.	3.5	5
12	GAGG:Ce composite scintillator for X-ray imaging. Optical Materials, 2020, 109, 110305.	3.6	18
13	Liquid phase epitaxy growth of high-performance composite scintillators based on single crystalline films and crystals of LuAG. CrystEngComm, 2020, 22, 3713-3724.	2.6	11
14	Oxygen-vacancy donor-electron center in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Al</mml:mi><mml:mn>5</mml:mn></m mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math> garnet crystals: Electron paramagnetic resonance and dielectric spectroscopy study. Physical Review B, 2020, 101, .	3.2	33
15	Optical study of Y3-xGdxAl5O12:Ce crystals grown from the melt. Optical Materials, 2019, 96, 109283.	3.6	6
16	Progress in fabrication of long transparent YAG:Ce and YAG:Ce,Mg single crystalline fibers for HEP applications. CrystEngComm, 2019, 21, 1728-1733.	2.6	18
17	Irradiation effects on Gd3Al2Ga3O12 scintillators prospective for application in harsh irradiation environments. Radiation Physics and Chemistry, 2019, 164, 108365.	2.8	18
18	Growth and scintillation performances of SrI2:Eu with low activator concentration. Journal of Crystal Growth, 2019, 521, 41-45.	1.5	8

#	Article	IF	Citations
19	Luminescent and Scintillation Properties of CeAlO3 Crystals and Phase-Separated CeAlO3/CeAl11O18 Metamaterials. Crystals, 2019, 9, 296.	2.2	7
20	Mechanisms of luminescence decay in YAG-Ce,Mg fibers excited by Î³- and X-rays. Optical Materials, 2019, 92, 341-346.	3.6	19
21	Garnet Crystal Growth in Non-precious Metal Crucibles. Springer Proceedings in Physics, 2019, , 83-95.	0.2	11
22	Growth and Characterization of SrI₂:Eu Crystals Fabricated by the Czochralski Method. IEEE Transactions on Nuclear Science, 2018, 65, 2174-2177.	2.0	8
23	Development of Composite Scintillators Based on Single Crystalline Films and Crystals of Ce³⁺-Doped (Lu,Gd)₃(Al,Ga)₅O₁₂ Mixed Garnet Compounds. Crystal Growth and Design, 2018, 18, 1834-1842.	3.0	26
24	Nonlinear behavior of structural and luminescent properties in Gd(NbxTa1-x)O4 mixed crystals. Optical Materials, 2018, 76, 382-387.	3.6	16
25	Control of optical properties of YAG crystals by thermal annealing. Journal of Crystal Growth, 2018, 483, 195-199.	1.5	20
26	Composition effect in luminescence properties of Y(NbxTa1-x)O4 mixed crystals. Optical Materials, 2018, 80, 247-252.	3.6	11
27	Drastic Scintillation Yield Enhancement of YAG:Ce with Carbon Doping. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800122.	1.8	12
28	Epitaxial growth of composite scintillators based on Tb3Al5O12â€‰:â€‰Ce single crystalline films and Gd3Al2.5Ga2.5O12â€‰:â€‰Ce crystal substrates. CrystEngComm, 2018, 20, 3994-4002.	2.6	16
29	Trends in Search for Bright Mixed Scintillators. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1701034.	1.8	20
30	Novel All-Solid-State Composite Scintillators Based on the Epitaxial Structures of LuAG Garnet Doped With Pr, Sc, and Ce Ions. IEEE Transactions on Nuclear Science, 2018, 65, 2114-2119.	2.0	10
31	Nucleation of the Plasticity at Nanodeformation of the Y3Al5O12 Yttrium-Aluminum Garnet. Journal of Superhard Materials, 2018, 40, 75-81.	1.2	1
32	Engineering of bulk and fiber-shaped YAGG:Ce scintillator crystals. CrystEngComm, 2017, 19, 1001-1007.	2.6	27
33	Fast ultradense GdTa1-xNbxO4 scintillator crystals. Optical Materials, 2017, 66, 332-337.	3.6	17
34	Concentration and composition of gas inclusions in some oxide crystals. Journal of Crystal Growth, 2017, 459, 189-193.	1.5	0
35	Development of YAG:Ce,Mg and YAGG:Ce Scintillation Fibers. Springer Proceedings in Physics, 2017, , 114-128.	0.2	5
36	Radiation-resistant composite scintillators based on GSO and GPS grains. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 841, 124-129.	1.6	17

#	Article	IF	Citations
37	Growth and characterization of Ce-doped YAG and LuAG fibers. Optical Materials, 2017, 65, 66-68.	3.6	15
38	Luminescence and scintillation timing characteristics of (Lu x Gd 2â˜'x)SiO 5 :Ce single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 116-120.	1.6	3
39	LPE Growth of Single Crystalline Film Scintillators Based on Ce3+ Doped Tb3â˜'xGdxAl5â˜'yGayO12 Mixed Garnets. Crystals, 2017, 7, 262.	2.2	13
40	Composition engineering of single crystalline films based on the multicomponent garnet compounds. Optical Materials, 2016, 61, 3-10.	3.6	12
41	Aluminum and Gallium Substitution in Yttrium and Lutetium Aluminumâ€"Gallium Garnets: Investigation by Single-Crystal NMR and TSL Methods. Journal of Physical Chemistry C, 2016, 120, 24400-24408.	3.1	51
42	Free carrier absorption in self-activated PbWO4 and Ce-doped Y3(Al0.25Ga0.75)3O12 and Gd3Al2Ga3O12 garnet scintillators. Optical Materials, 2016, 58, 461-465.	3.6	15
43	Luminescence and scintillation properties of Lu0.8Gd1.2SiO5:Ce and Lu1.8Gd0.2SiO5:Ce single crystals: A comparative study. Radiation Measurements, 2016, 93, 1-6.	1.4	2
44	Non-Linear Optical Phenomena in Detecting Materials as a Possibility for Fast Timing in Detectors of Ionizing Radiation. IEEE Transactions on Nuclear Science, 2016, 63, 2979-2984.	2.0	5
45	Features of YAG crystal growth under Ar+CO reducing atmosphere. Journal of Crystal Growth, 2016, 449, 104-107.	1.5	13
46	Growth of long undoped and Ce-doped LuAG single crystal fibers for dual readout calorimetry. Journal of Crystal Growth, 2016, 435, 31-36.	1.5	17
47	Scintillating Screens Based on the Single Crystalline Films of Multicomponent Garnets: New Achievements and Possibilities. IEEE Transactions on Nuclear Science, 2016, 63, 497-502.	2.0	10
48	Defects related luminescence in yttrium-aluminum garnet crystals. Functional Materials, 2016, 23, 191-196.	0.1	4
49	Crystal Composition and Afterglow in Mixed Silicates: The Role of Melting Temperature. Physical Review Applied, 2015, 4, .	3.8	20
50	High-perfomance Ce-doped multicomponent garnet single crystalline film scintillators. Physica Status Solidi - Rapid Research Letters, 2015, 9, 489-493.	2.4	41
51	Potential of non-linear optical phenomena for fast timing in detectors of ionizing radiation. , 2015, , .		0
52	Characterization of bismuth germanate crystals grown by EFG method. Crystal Research and Technology, 2015, 50, 150-154.	1.3	2
53	Photoinduced refractive index variation within picosecond laser pulses excitation as the indicator of oxyorthosilicates single crystals composition modification. Nanoscale Research Letters, 2015, 10, 102.	5.7	11
54	Radiation damage effects in Y2SiO5:Ce scintillation crystals under Î³-quanta and 24 GeV protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 783, 117-120.	1.6	14

#	Article	IF	Citations
55	Growth and characterization of large CeAlO3 perovskite crystals. Journal of Crystal Growth, 2015, 430, 116-121.	1.5	25
56	Thermally stimulated luminescence of undoped and Ce3+-doped Gd2SiO5 and (Lu,Gd)2SiO5 single crystals. Journal of Luminescence, 2015, 159, 229-237.	3.1	3
57	Growth of Ce-doped LGSO fiber-shaped crystals by the micro pulling down technique. Journal of Crystal Growth, 2015, 412, 95-102.	1.5	12
58	Engineering of mixed Bi4(GexSi1-x)3O12 scintillation crystals. Functional Materials, 2015, 22, 423-428.	0.1	4
59	Peculiarities of the solid-state synthesis of yttrium and gadolinium orthovanadates raw material. Functional Materials, 2015, 22, 299-303.	0.1	0
60	Impact of composition modification of oxyorthosilicates single crystals on pulsed laser radiation self-action effect manifestation. , 2014, , .		0
61	Czochralski growth and characterization of mixed BGO-BSO crystals. , 2014, , .		1
62	Modifying the properties of crystals in the transition from pure to mixed perovskites. , 2014, , .		0
63	Luminescent and scintillation characteristics of RE(Nb<inf>x</inf>Ta<inf>1−x</inf>)O<inf>4</inf> compounds (RE=Y or Gd). , 2014, , .		0
64	Scintillating screens based on the single crystalline films of orthosilicates and multicomponent garnets. , 2014, , .		0
65	Obtaining of optically perfect YAG crystals grown from Mo crucibles. , 2014, , .		0
66	Phenomenological approach to prediction of scintillation yield in mixed crystals. , 2014, , .		0
67	Evaluation of LGSO:Ce scintillator for high energy physics experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 620-623.	1.6	5
68	Energy Relaxation in LSO and LGSO Crystals Studied in the VUV Range. IEEE Transactions on Nuclear Science, 2014, 61, 290-292.	2.0	1
69	Confocal Microscopy of Luminescence Inhomogeneity in LGSO:Ce Scintillator Crystal. IEEE Transactions on Nuclear Science, 2014, 61, 343-347.	2.0	5
70	Development of scintillating screens based on the single crystalline films of Ce doped (Gd,Y)3(Al,Ga,Sc)5O12 multi-component garnets. Journal of Crystal Growth, 2014, 401, 532-536.	1.5	16
71	Novel Scintillating Screens Based on the Single Crystalline Films of Ce Doped Multi-Component $({m) Tj ETQq1 1 0.784314 rgBT /Ove Science, 2014, 61, 439-442.	2.0	3
72	LGSO:Ce scintillation crystal optimization by thermal treatment. Materials Research Bulletin, 2014, 52, 25-29.	5.2	18

#	Article	IF	Citations
73	New, dense, and fast scintillators based on rare-earth tantalo-niobates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 227-231.	1.6	28
74	Optimization of heating conditions during Cz BGO crystal growth. Journal of Crystal Growth, 2014, 407, 42-47.	1.5	5
75	Comparison of the scintillation and luminescence properties of the (Lu_{1â^'x}Gd_x)₂SiO₅:Ce single crystal scintillators. Journal Physics D: Applied Physics, 2014, 47, 365304.	2.8	16
76	Luminescent properties of Y 3 Al 5â^'x Ga x O 12 :Ce crystals. Journal of Luminescence, 2014, 156, 102-107.	3.1	25
77	Thermoluminescent Properties of Undoped and Ce-Doped Lutetium Orthosilicate and Yttrium Orthosilicate Single Crystals and Single Crystalline Films Scintillators. IEEE Transactions on Nuclear Science, 2014, 61, 276-281.	2.0	6
78	Lightâ€yield improvement trends in mixed scintillation crystals. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2384-2387.	1.8	31
79	Growth and luminescent properties of Ce and Ceâ€“Tb doped (Y,Lu,Gd)2SiO5:Ce single crystalline films. Journal of Crystal Growth, 2014, 401, 577-583.	1.5	18
80	Comparative analysis of the scintillation and thermoluminescent properties of Ce-doped LSO and YSO crystals and films. Optical Materials, 2014, 36, 1715-1719.	3.6	9
81	OSL dosimetric properties of cerium doped lutetium orthosilicates. Radiation Measurements, 2014, 71, 139-142.	1.4	14
82	Conference comments by the Editors. IEEE Transactions on Nuclear Science, 2014, 61, 228-228.	2.0	0
83	Intrinsic luminescence of Lu2SiO5 (LSO) and Y2SiO5 (YSO) orthosilicates. Journal of Luminescence, 2013, 137, 204-207.	3.1	15
84	Lu2SiO5:Ce and Y2SiO5:Ce single crystals and single crystalline film scintillators: Comparison of the luminescent and scintillation properties. Radiation Measurements, 2013, 56, 84-89.	1.4	18
85	Luminescent and scintillation properties of orthotantalates with common formulae RETaO4 (RE=Y, Sc,) Tj ETQq1 1 0.784314 rgBT /Ov 2013, 178, 1491-1496.	3.5	41
86	On the mechanisms of radiation damage and prospects of their suppression in complex metal oxides. Physica Status Solidi (B): Basic Research, 2013, 250, 261-270.	1.5	24
87	Ce-doped Li6Ln(BO3)3 (Ln=Y, Gd) Single crystals fibers grown by micro-pulling down method and luminescence properties. Optical Materials, 2013, 35, 868-874.	3.6	21
88	Comparative study of TL and OSL properties of LSO and LSO:Ce single crystals andÂsingle crystalline films. Radiation Measurements, 2013, 56, 196-199.	1.4	9
89	Improving of LSO(Ce) Scintillator Properties by Co-Doping. IEEE Transactions on Nuclear Science, 2013, 60, 1427-1431.	2.0	9
90	Impact of codoping on structure, optical and scintillation properties of Gd2Si2O7-based crystalsImpact of codoping on structure, optical and scintillation properties of Gd2Si2O7-based crystals. Functional Materials, 2013, 20, 15-19.	0.1	9

#	Article	IF	Citations
91	Melt composition and heat treatment at growth of Gd2Si2O7 â€" based crystals. Functional Materials, 2013, 20, 234-238.	0.1	2
92	LPE growth and luminescent properties of Ce doped A<inf>2S</inf>iO<inf>5</inf>:Ce (A = Lu, Gd, Y) single crystalline films. , 2012, , .		0
93	TSL properties of A<inf>2</inf>SiO<inf>5</inf> and A<inf>2</inf>SiO<inf>5</inf>:Ce (A=Y, Lu) single crystals and single crystalline films. , 2012, , .		0
94	Structureâ€"Property Correlations in a Ce-Doped (Lu,Gd)₂SiO₅:Ce Scintillator. Crystal Growth and Design, 2012, 12, 4411-4416.	3.0	59
95	Scintillation and luminescent properties of undoped and Ce3+ doped Y2SiO5 and Lu2SiO5 single crystalline films grown by LPE method. Optical Materials, 2012, 34, 1969-1974.	3.6	41
96	Structure and scintillation yield of Ce-doped Alâ€"Ga substituted yttrium garnet. Materials Research Bulletin, 2012, 47, 3249-3252.	5.2	59
97	Single Crystalline Film Scintillators Based on the Orthosilicate, Perovskite and Garnet Compounds. IEEE Transactions on Nuclear Science, 2012, 59, 2260-2268.	2.0	20
98	Growth and scintillation properties of gadolinium and yttrium orthovanadate crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 664, 299-303.	1.6	22
99	Radioactive contamination of SrI2(Eu) crystal scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 670, 10-17.	1.6	38
100	Growth and characterization of tetragonal structure modification of Î²-Gd2Si2O7:Ce. Journal of Alloys and Compounds, 2011, 509, 8478-8482.	5.5	16
101	Growth and luminescent properties of Lu2SiO5:Ce and (Lu1â^'xGdx)2SiO5:Ce single crystalline films. Journal of Crystal Growth, 2011, 337, 72-80.	1.5	26
102	Growth of bulk gadolinium pyrosilicate single crystals for scintillators. Journal of Crystal Growth, 2011, 318, 805-808.	1.5	39
103	Growth and luminescent properties of Lu2SiO5 and Lu2SiO5:Ce single crystalline films. Optical Materials, 2011, 33, 846-852.	3.6	37
104	Gd-Bearing Composite Scintillators as the New Thermal Neutron Detectors. IEEE Transactions on Nuclear Science, 2011, 58, 339-346.	2.0	19
105	Impact of Lu/Gd ratio and activator concentration on structure and scintillation properties of LGSO:Ce crystals. Journal of Crystal Growth, 2010, 312, 601-606.	1.5	45
106	Gadolinium pyrosilicate single crystals for gamma ray and thermal neutron monitoring. Radiation Measurements, 2010, 45, 365-368.	1.4	39
107	Modification of NaI crystal scintillation properties by Eu-doping. Optical Materials, 2010, 32, 1345-1348.	3.6	17
108	Combined composite scintillation detector for separate measurements of fast and thermal neutrons. , 2010, , .		1

#	Article	IF	Citations
109	Growth and luminescent properties of Lu2SiO5and Lu2SiO5:Ce single crystalline films. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012010.	0.6	4
110	Eu Doped and Eu, Tl Co-Doped NaI Scintillators. IEEE Transactions on Nuclear Science, 2010, 57, 1233-1235.	2.0	26
111	Absolute Light Yield Determination for LGSO:Ce, CWO, ZnSe:Al, and GSO:Ce Crystals. IEEE Transactions on Nuclear Science, 2010, 57, 1236-1240.	2.0	13
112	Mechanical Properties and Lattice Parameters of Lu_{2x}Gd_{2(1-x)}SiO₅:Ce Scintillation Crystals. Acta Physica Polonica A, 2010, 117, 146-149.	0.5	3
113	Gd-bearing composite scintillators as the new thermal neutron detectors. , 2009, , .		4
114	Heat transfer and convection in Czochralski growth of large BGO Crystals. Journal of Crystal Growth, 2009, 311, 3933-3937.	1.5	16
115	Growth of LGSO: Ce crystals by the Czochralski method. Crystallography Reports, 2009, 54, 1256-1260.	0.6	11
116	Optical Transmission and Conductivity of Nematic Liquid Crystals Containing Dispersed Multiwall Nanotubes. Molecular Crystals and Liquid Crystals, 2007, 478, 127/[883]-133/[889].	0.9	16
117	Thermal conditions for large alkali-halide crystal growth by the continuous feed method. Optical Materials, 2007, 30, 109-112.	3.6	5
118	Experimental studies of heat transfer between crystal, crucible elements, and surrounding media when growing large-size alkali halide ingots with melt feeding. WIT Transactions on Engineering Sciences, 2006, , .	0.0	0
119	Intermolecular interactions in binary mixtures of two liquid crystals and mixtures liquid crystal–nonmesogenous compound. , 2002, , .		0
120	Title is missing!. Instruments and Experimental Techniques, 2002, 45, 576-578.	0.5	0
121	Luminescence Properties of the Yttrium and Gadolinium Tantalo-Niobates. Solid State Phenomena, 0, 230, 172-177.	0.3	23