Yu Zorenko

List of Publications by Year
in descending order

247 papers	4,511 citations	126907 33 h-index	182427 51 g-index
252 all docs	252 docs citations	252 times ranked	1862 citing authors

#	Article	IF	Citations
1	The antisite LuAl defect-related trap in Lu3Al5O12:Ce single crystal. Physica Status Solidi (B): Basic Research, 2005, 242, R119-R121.	1.5	199
2	Single-crystalline films of Ce-doped YAG and LuAG phosphors: advantages over bulk crystals analogues. Journal of Luminescence, 2005, 114, 85-94.	3.1	172
3	Exciton and antisite defect-related luminescence in Lu3Al5O12 and Y3Al5O12 garnets. Physica Status Solidi (B): Basic Research, 2007, 244, 2180-2189.	1.5	149
4	Scintillation properties of Lu3Al5O12:Ce single-crystalline films. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 309-314.	1.6	107
5	Single crystalline film scintillators based on Ce- and Pr-doped aluminium garnets. Radiation Measurements, 2007, 42, 521-527.	1.4	92
6	Luminescence characteristics of Pb2+ centres in undoped and Ce3+-doped Lu3Al5O12 single-crystalline films and Pb2+â†'Ce3+ energy transfer processes. Journal of Luminescence, 2007, 127, 384-390.	3.1	73
7	Luminescence of F + and F centers in YAlO3. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Over	0.6	66
8	Luminescence and Tb3+â€"Ce3+â€"Eu3+ ion energy transfer in single-crystalline films of Tb3Al5O12:Ce,Eu garnet. Journal of Luminescence, 2008, 128, 652-660.	3.1	62
9	Luminescence of excitons and antisite defects in the phosphors based on garnet compounds. Radiation Measurements, 2004, 38, 677-680.	1.4	56
10	Luminescence properties of phosphors based on Tb3Al5O12 (TbAG) terbium-aluminum garnet. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 106, 365-374.	0.6	56
11	Binding energies of Eu2+ and Eu3+ ions in Î²-Ca2SiO4 doped with europium. Optical Materials, 2013, 35, 2107-2114.	3.6	56
12	Growth peculiarities of the (, Yb, Tb, Euâ€"Y) single crystalline film phosphors by liquid phase epitaxy. Radiation Measurements, 2007, 42, 907-910.	1.4	55
13	Peculiarities of luminescence and scintillation properties of YAP:Ce and LuAP:Ce single crystals and single crystalline films. Radiation Measurements, 2007, 42, 528-532.	1.4	55
14	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
15	Energy transfer to ions in single crystalline films. Radiation Measurements, 2007, 42, 648-651.	1.4	50
16	Formation of luminescent centers in CeO2 nanocrystals. Journal of Luminescence, 2014, 145, 61-64.	3.1	49
17	Luminescence of ions in single crystalline films. Radiation Measurements, 2007, 42, 882-886.	1.4	48
18	Luminescence of isoelectronic impurities and antisite defects in garnets. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 375-379.	0.8	46

#	Article	IF	Citations
19	Paramagnetic impurity defects in LuAG:Ce thick film scintillators. Radiation Measurements, 2007, 42, 835-838.	1.4	46
20	Luminescence properties of Y3Al5O12:Ce nanoceramics. Journal of Luminescence, 2011, 131, 17-21.	3.1	45
21	Exciton-related luminescence in LuAG:Ce single crystals and single crystalline films. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1113-1119.	1.8	44
22	The luminescence of CaWO4: Bi single crystals. Journal of Luminescence, 2006, 116, 43-51.	3.1	43
23	Scintillation and optical properties of YAG:Ce films grown by liquid phase epitaxy. Radiation Measurements, 2007, 42, 533-536.	1.4	42
24	Luminescence of F⁺and F centers in Al₂O₃-Y₂O₃oxide compounds. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012060.	0.6	42
25	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
26	High-perfomance Ce-doped multicomponent garnet single crystalline film scintillators. Physica Status Solidi - Rapid Research Letters, 2015, 9, 489-493.	2.4	41
27	Luminescence of Mn2+ ions in Tb3Al5O12 garnet. Journal of Luminescence, 2010, 130, 380-386.	3.1	40
28	Origin of Bi³⁺â€related luminescence centres in Lu₃Al₅O₁₂:Bi and Y₃Al₅O₁₂:Bi single crystalline films and the structure of their relaxed excited states. Physica Status Solidi (B): Basic Research, 2012, 249, 1039-1045.	1.5	40
29	Electronic structure of Ce3+ multicenters in yttrium aluminum garnets. Applied Physics Letters, 2013, 102, .	3.3	40
30	Mechanism of dissipation of the excitation energy in garnet oxides doped with rare-earth ions with 4f-5d transitions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 88, 551-553.	0.6	38
31	Growth and luminescent properties of Lu2SiO5 and Lu2SiO5:Ce single crystalline films. Optical Materials, 2011, 33, 846-852.	3.6	37
32	Epitaxial structures of garnets as scintillation detectors of ionizing radiation. Journal of Applied Spectroscopy, 1990, 52, 645-649.	0.7	35
33	Peculiarities of luminescent and scintillation properties of YAG:Ce phosphor prepared in different crystalline forms. Optical Materials, 2012, 34, 1314-1319.	3.6	35
34	The Î±-particle excited scintillation response of the liquid phase epitaxy grown LuAG:Ce thin films. Applied Physics Letters, 2008, 92, .	3.3	34
35	Luminescence of dimer lead centers in aluminium perovskites and garnets. Physica Status Solidi (B): Basic Research, 2009, 246, 1318-1326.	1.5	32
36	Photoluminescence of Lu3Al5O12:Bi and Y3Al5O12:Bi single crystalline films. Radiation Measurements, 2010, 45, 331-335.	1.4	31

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37	Luminescence spectroscopy of the Bi3+ single and dimer centers in Y3Al5O12:Bi single crystalline films. Journal of Luminescence, 2010, 130, 1963-1969.	3.1	31
38	Epitaxial growth of gadolinium and lutetium-based aluminum perovskite thin films for X-ray micro-imaging applications. CrystEngComm, 2016, 18, 608-615.	2.6	31
39	Optical, luminescence and scintillation characteristics of Bi-doped LuAG and YAG single crystalline films. Journal Physics D: Applied Physics, 2009, 42, 075501.	2.8	30
40	Growth and luminescent properties of scintillators based on the single crystalline films of Lu3âˆ'xGdxAl5O12:Ce garnet. Materials Research Bulletin, 2015, 64, 355-363.	5.2	30
41	Luminescence of Sc3+ and La3+ isoelectronic impurities in Lu3Al5O12 single-crystal films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 572-580.	0.6	29
42	Luminescence and scintillation characteristics of YAG:Ce single crystalline films and single crystals. Radiation Measurements, 2010, 45, 389-391.	1.4	29
43	Luminescence of excitons and antisite defects in Lu3Al5O12:Ce single crystals and single-crystal films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 923-931.	0.6	28
44	Synthesis and luminescent properties of prospective Ce3+ doped silicate garnet phosphors for white LED converters. Journal of Luminescence, 2017, 192, 328-336.	3.1	28
45	Rare-earth antisites in lutetium aluminum garnets: Influence on lattice parameter and Ce3+ multicenter structure. Optical Materials, 2014, 36, 1515-1519.	3.6	27
46	Scintillating screens based on the LPE grown Tb 3 Al 5 O 12 :Ce single crystalline films. Optical Materials, 2017, 65, 73-81.	3.6	27
47	New scintillation detectors based on oxide single crystal films for biological microtomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 505, 93-96.	1.6	26
48	Peculiarities of excited state structure and photoluminescence in Bi3+-doped Lu3Al5O12single-crystalline films. Journal of Physics Condensed Matter, 2009, 21, 415502.	1.8	26
49	Growth and luminescent properties of Lu2SiO5:Ce and (Lu1âˆ'xGdx)2SiO5:Ce single crystalline films. Journal of Crystal Growth, 2011, 337, 72-80.	1.5	26
50	Luminescence and energy transfer processes in Ce 3+ activated (Gd,Tb) 3 Al 5 O 12 single crystalline films. Journal of Luminescence, 2017, 188, 60-66.	3.1	26
51	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
52	Ga for Al substitution effects on the garnet phase stability and luminescence properties of Gd3GaxAl5-xO12:Ce single crystals. Journal of Luminescence, 2019, 216, 116724.	3.1	26
53	Luminescence spectroscopy of excitons and antisite defects in Lu3Al5O12 single crystals and single-crystal films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 104, 75-87.	0.6	25
54	The luminescent and scintillation properties of YAlO₃ and YAlO₃:Ce single crystalline films grown by liquid phase epitaxy from BaOâ€based flux. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2586-2592.	1.8	25

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55	Growth and luminescence properties of Pr3+-doped single crystalline films of garnets and perovskites. Radiation Measurements, 2010, 45, 461-464.	1.4	25
56	Development of Novel UV Emitting Single Crystalline Film Scintillators. IEEE Transactions on Nuclear Science, 2010, 57, 1335-1342.	2.0	25
57	Time-resolved spectroscopy of exciton states in single crystals and single crystalline films of YAlO₃ and YAlO₃â€‰:â€‰Ce. Journal Physics D: Applied Physics, 2011, 44, 315402.	2.8	25
58	Photoluminescence and excited state structure of Bi3+-related centers in Lu2SiO5:Bi single crystalline films. Journal of Luminescence, 2013, 134, 469-476.	3.1	25
59	Luminescent properties of Y 3 Al 5â^'x Ga x O 12 :Ce crystals. Journal of Luminescence, 2014, 156, 102-107.	3.1	25
60	Growth and characterization of large CeAlO3 perovskite crystals. Journal of Crystal Growth, 2015, 430, 116-121.	1.5	25
61	Growth and luminescent properties of scintillators based on the single crystalline films of (Lu,Gd)3(Al,Ga)5O12:Ce garnets. Journal of Luminescence, 2016, 169, 828-837.	3.1	25
62	Intrinsic and Ce3+-related luminescence of YAG and YAG:Ce single crystals, single crystalline films and nanopowders. Optical Materials, 2009, 31, 1845-1848.	3.6	23
63	Luminescence of Pb²⁺ ions in YAG:Pb singleâ€crystalline films. Physica Status Solidi (B): Basic Research, 2008, 245, 1618-1622.	1.5	22
64	Shallow Traps in ${m YAlO}_{3}:{m Ce}$ Single Crystal Perovskites. IEEE Transactions on Nuclear Science, 2008, 55, 1114-1117.	2.0	22
65	Luminescence characteristics of LuAG:Pr and YAG:Pr single crystalline films. Optical Materials, 2009, 31, 1805-1807.	3.6	22
66	Ultraviolet luminescence of single crystals and single-crystal films of YAlO3. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 96, 70-76.	0.6	21
67	Single crystalline film screens for cathode-ray tubes: New life of television scanning optical microscopy. Radiation Measurements, 2007, 42, 933-936.	1.4	21
68	Growth and luminescence properties of single-crystalline films of RAlO3 (R = Lu, Lu-Y, Y, Tb) perovskite. Physics of the Solid State, 2009, 51, 1800-1808.	0.6	21
69	New type of scintillation detectors for biological, medical, and radiation monitoring applications. IEEE Transactions on Nuclear Science, 2004, 51, 1297-1303.	2.0	20
70	Intrinsic and ${m Ce}^{3+}$- Related Luminescence of Single Crystals and Single Crystalline Films of YAP Perovskites: New Results. IEEE Transactions on Nuclear Science, 2008, 55, 1186-1191.	2.0	20
71	Single Crystalline Film Scintillators Based on the Orthosilicate, Perovskite and Garnet Compounds. IEEE Transactions on Nuclear Science, 2012, 59, 2260-2268.	2.0	20
72	Influence of lead-related centers on luminescence of Ce3+ and Pr3+ centers in single crystalline films of aluminium perovskites and garnets. Radiation Measurements, 2010, 45, 415-418.	1.4	19

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73	Scintillators Based on ${hbox{CdWO}}_{4}$ and ${hbox{CdWO}}_{4}!!:!!{hbox{Bi}}$ Single Crystalline Films. IEEE Transactions on Nuclear Science, 2012, 59, 2281-2285.	2.0	18
74	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
75	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
76	Luminescent and scintillation properties of Bi3+ doped Y2SiO5 and Lu2SiO5 single crystalline films. Journal of Luminescence, 2014, 154, 525-530.	3.1	18
77	Epitaxial Growth of LuAG:Ce and LuAG:Ce,Pr Films and Their Scintillation Properties. IEEE Transactions on Nuclear Science, 2016, 63, 1726-1732.	2.0	18
78	Luminescence and energy transfer processes in (Lu,Tb)3Al5O12 single crystalline films doped with Ce3+. Journal of Luminescence, 2016, 173, 141-148.	3.1	18
79	Growth and luminescent properties of single crystalline films of Ce3+ doped Pr1â^'xLuxAlO3 and Gd1â^'xLuxAlO3 perovskites. Journal of Crystal Growth, 2017, 457, 220-226.	1.5	18
80	Luminescence of Ce3+ multicenters in Ca2+-Mg2+-Si4+ based garnet phosphors. Journal of Luminescence, 2018, 199, 245-250.	3.1	18
81	Intrinsic and defect-related luminescence of YAlO3 and LuAlO3 single crystals and films. Optical Materials, 2018, 86, 376-381.	3.6	18
82	Hydrogen peroxide sensing using Ce3+ luminescence of cerium oxide (CeO2-x) nanoparticles. Optical Materials, 2018, 85, 303-307.	3.6	18
83	Luminescence of Sc-related centers in single crystalline films of Lu3Al5O12 garnet. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 105-108.	0.8	17
84	Intrinsic luminescence of YAlO3 perovskites. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 963-967.	0.8	17
85	Intrinsic and ${m Ce}^{3+}$-Related Luminescence in Single Crystalline Films and Single Crystals of LuAP and LuAP:Ce Perovskites. IEEE Transactions on Nuclear Science, 2008, 55, 1192-1196.	2.0	17
86	Lu 3 Al 5 O 12 -based materials for high 2D-resolution scintillation detectors. Proceedings of SPIE, 2009, , .	0.8	17
87	Luminescent and scintillation properties of Lu3Al5O12:Sc single crystal and single crystalline films. Optical Materials, 2012, 34, 2080-2085.	3.6	17
88	Comparative study of the luminescence of Y3Al5O12 nanoceramics and single crystals under excitation by synchrotron radiation. Optical Materials, 2013, 35, 2049-2052.	3.6	17
89	Scintillating Screens for Micro-Imaging Based on the Ce-Tb Doped LuAP Single Crystal Films. IEEE Transactions on Nuclear Science, 2014, 61, 433-438.	2.0	17
90	Epitaxial growth of single crystalline film phosphors based on the Ce³⁺-doped Ca₂YMgScSi₃O₁₂garnet. CrystEngComm, 2017, 19, 3689-3697.	2.6	17

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91	Luminescent spectroscopy of Eu2+ centers in CsBr:Eu single crystals at 10â€“550K. Journal of Luminescence, 2004, 106, 313-320.	3.1	16
92	Comparative study of the luminescence of Al2O3:Ti and Al2O3 crystals under VUV synchrotron radiation excitation. Optical Materials, 2013, 35, 2053-2055.	3.6	16
93	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
94	Epitaxial growth of single crystalline film scintillating screens based on Eu³⁺ doped RAlO₃ (R = Y, Lu, Gd, Tb) perovskites. CrystEngComm, 2018, 20, 937-945.	2.6	16
95	New silicate based thermographic phosphors Ca3Sc2Si3O12:Dy, Ca3Sc2Si3O12:Dy,Ce and their photoluminescence properties. Journal of Luminescence, 2018, 202, 13-19.	3.1	16
96	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
97	Intrinsic luminescence of Lu2SiO5 (LSO) and Y2SiO5 (YSO) orthosilicates. Journal of Luminescence, 2013, 137, 204-207.	3.1	15
98	Comparative study of the luminescence of Al2O3:C and Al2O3 crystals under synchrotron radiation excitation. Journal of Luminescence, 2013, 144, 41-44.	3.1	15
99	Exciton creation in LuAlO3 single crystalline film. Physica Status Solidi (B): Basic Research, 2006, 243, R60-R62.	1.5	14
100	Bi3+â€“Pr3+ energy transfer processes and luminescent properties of LuAG:Bi,Pr and YAG:Bi,Pr single crystalline films. Journal of Luminescence, 2013, 141, 137-143.	3.1	14
101	OSL dosimetric properties of cerium doped lutetium orthosilicates. Radiation Measurements, 2014, 71, 139-142.	1.4	14
102	Luminescent and scintillation properties of the Ce3+ doped Y3â^'Lu Al5O12:Ce single crystalline films. Journal of Luminescence, 2016, 169, 822-827.	3.1	14
103	A study of Mg2+ ions effect on atoms segregation, defects formation, luminescence and scintillation properties in Ce3+ doped Gd3Al2Ga3O12 single crystals. Journal of Alloys and Compounds, 2022, 905, 164154.	5.5	14
104	The role of Pb2+ ions in the luminescence of LuAG:Ce single crystalline films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 797-800.	0.8	13
105	Time-resolved spectroscopy of intrinsic luminescence of Y3Ga5O12 and (LaLu)3Lu2Ga3O12 single crystals. Optical Materials, 2009, 31, 1835-1838.	3.6	13
106	LuAG:Pr, LuAG:La, and LuAP:Ce thin film scintillators for visualisation of x-ray images. , 2009, , .		13
107	Time-resolved luminescent spectroscopy of YAG:Ce single crystal and single crystalline films. Radiation Measurements, 2010, 45, 395-397.	1.4	13
108	High pressure spectroscopy study of SCF Tb₃Al₅O₁₂:Mn. Journal of Physics: Conference Series, 2010, 249, 012015.	0.4	13

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109	Photoluminescence and excited state structure in Bi3+-doped Y2SiO5 single crystalline films. Radiation Measurements, 2013, 56, 90-93.	1.4	13
110	Bi3+â€“Ce3+ energy transfer and luminescent properties of LuAG:Bi,Ce and YAG:Bi,Ce single crystalline films. Journal of Luminescence, 2013, 134, 539-543.	3.1	13
111	Multi-component Ce doped (Gd,Y,La,Lu)3(AlGaSc)5O12 garnets â€“ A new story in the development of scintillating single crystalline film screens. Radiation Measurements, 2013, 56, 150-154.	1.4	13
112	Luminescent properties of Al2O3:Ce single crystalline films under synchrotron radiation excitation. Optical Materials, 2016, 59, 141-144.	3.6	13
113	LPE Growth of Single Crystalline Film Scintillators Based on Ce3+ Doped Tb3â^'xGdxAl5â^'yGayO12 Mixed Garnets. Crystals, 2017, 7, 262.	2.2	13
114	Composite scintillators based on the crystals and single crystalline films of LuAG garnet doped with Ce3+, Pr3+ and Sc3+ ions. Optical Materials, 2018, 84, 593-599.	3.6	13
115	Persistent photoconductivity in ZnO thin films grown on Si substrate by spin coating method. Optical Materials, 2019, 97, 109343.	3.6	13
116	Alpha and gamma spectroscopy of composite scintillators based on the LuAG:Pr crystals and single crystalline films of LuAG:Ce and (Lu,Gd,Tb)AG:Ce garnets. Optical Materials, 2019, 96, 109268.	3.6	13
117	LPE growth and study of the Ce³⁺ incorporation in LuAlO₃:Ce single crystalline film scintillators. CrystEngComm, 2019, 21, 3313-3321.	2.6	13
118	Luminescence of excitons in single-crystal garnets. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	12
119	Scintillation properties of PbWO4 crystals doped with the rare-earth ions. Radiation Measurements, 2004, 38, 397-401.	1.4	12
120	Exciton Luminescence of YAlO[sub 3] Single Crystals and Single-Crystal Films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 98, 555.	0.6	12
121	Influence of thermal treatment and -radiation on absorption, luminescence and scintillation properties of single crystalline films. Radiation Measurements, 2007, 42, 557-560.	1.4	12
122	Luminescence and ESR characteristics of Î³-irradiated Lu3Al5O12:Ce single crystalline film scintillators. Radiation Measurements, 2010, 45, 419-421.	1.4	12
123	Luminescent and scintillation properties of CsI:Tl films grown by the liquid phase epitaxy method. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2344-2350.	1.8	12
124	Composition engineering of single crystalline films based on the multicomponent garnet compounds. Optical Materials, 2016, 61, 3-10.	3.6	12
125	New Ce³⁺ doped Ca₂YMgScSi₃O₁₂ garnet ceramic phosphor for white LED converters. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700016.	2.4	12
126	Luminescent properties of undoped and Ce3+ doped crystals in Y2O3 Lu2O3 Al2O3 triple oxide system grown by micro-pulling-down method. Optical Materials, 2019, 89, 408-413.	3.6	12

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127	Micro-powder Ca3Sc2Si3O12:Ce silicate garnets as efficient light converters for WLEDs. Optical Materials, 2020, 107, 109978.	3.6	12
128	Composition engineering of Tb3-xGdxAl5-yGayO12:Ce single crystals and their luminescent, scintillation and photoconversion properties. Journal of Alloys and Compounds, 2020, 849, 155808.	5.5	12
129	Intrinsic and Dopant-Related Luminescence of Undoped and Tb Plus Tm Double-Doped Lithium Magnesium Phosphate (LiMgPO4, LMP) Crystals. Materials, 2020, 13, 2032.	2.9	12
130	LPE growth of Tb₃Al₅O₁₂:Ce single crystalline film converters for WLED application. CrystEngComm, 2021, 23, 3212-3219.	2.6	12
131	Composite Detectors Based on Single-Crystalline Films and Single Crystals of Garnet Compounds. Materials, 2022, 15, 1249.	2.9	12
132	Energy transfer between the dipole and aggregate centers in CsBr:Eu crystals. Radiation Measurements, 2007, 42, 672-674.	1.4	11
133	Luminescence of La3+ and Sc3+ impurity centers in YAlO3 single-crystalline films. Journal of Luminescence, 2008, 128, 595-602.	3.1	11
134	Novel UV-emitting single crystalline film phosphors grown by LPE method. Radiation Measurements, 2010, 45, 444-448.	1.4	11
135	Luminescence and scintillation properties of Y3Al5O12:Ce single crystals and single-crystal films. Physics of the Solid State, 2011, 53, 1620-1625.	0.6	11
136	Timeâ€resolved spectroscopy of excitonâ€related states in single crystals and single crystalline films of Lu₃Al₅O₁₂ and Lu₃Al₅O₁₂:Ce. Physica Status Solidi (B): Basic Research, 2011, 248, 1505-1512.	1.5	11
137	STED properties of Ce^3+, Tb^3+, and Eu^3+ doped inorganic scintillators. Optics Express, 2017, 25, 1251.	3.4	11
138	Luminescent and scintillation properties of Ce 3+ doped Ca 2 RMgScSi 3 O 12 (R = Y, Lu) single crystalline films. Journal of Luminescence, 2018, 195, 362-370.	3.1	11
139	Composite thermoluminescent detectors based on the Ce3+ doped LuAG/YAG and YAG/LuAG epitaxial structures. Radiation Measurements, 2019, 128, 106124.	1.4	11
140	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
141	Single crystalline thin film screens for cathode ray tubes: possibilities of application, peculiarities, and light parameters. , 1998, , .		10
142	Cathodoluminescence and scintillation characteristics of YAG:Ce crystals grown by horizontal directional crystallization in a protective atmosphere. Technical Physics Letters, 2009, 35, 964-966.	0.7	10
143	Luminescent properties of the Sc3+ doped single crystalline films of (Y,Lu,La)3(Al,Ga)5O12 multi-component garnets. Optical Materials, 2014, 36, 1760-1764.	3.6	10
144	Luminescent properties and energy transfer processes in YAG:Er single crystalline films. Journal of Luminescence, 2014, 154, 198-203.	3.1	10

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145	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
146	Comparative study of the luminescent properties of oxide compounds under synchrotron radiation excitation: Lu2O3:Eu nanopowders, ceramics and films. Journal of Luminescence, 2018, 199, 461-464.	3.1	10
147	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
148	LPE Growth of Composite Thermoluminescent Detectors Based on the Lu3â^'xGdxAl5O12:Ce Single Crystalline Films and YAG:Ce Crystals. Crystals, 2020, 10, 189.	2.2	10
149	Single-crystalline oxide films of the Al 2 O 3 -Y 2 O 3 -R 2 O 3 system as optical sensors of various types of ionizing radiation: significant advantages over volume analogs. , 1997, , .		9
150	Luminescent properties and energy transfer processes in Ceâ€“Tb doped single crystalline film screens of Lu-based silicate, perovskite and garnet compounds. Radiation Measurements, 2013, 56, 415-419.	1.4	9
151	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
152	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
153	Luminescent properties of composite scintillators based on PPO and o-POPOP doped SiO 2 xerogel matrices. Journal of Luminescence, 2016, 179, 178-182.	3.1	9
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