Martin Nikl

List of Publications by Year
in descending order

987 papers	24,834 citations	15504 65 h-index	23533 111 g-index
1005 all docs	1005 docs citations	1005 times ranked	8225 citing authors

#	Article	IF	Citations
1	Scintillation detectors for x-rays. Measurement Science and Technology, 2006, 17, R37-R54.	2.6	707
2	Recent R&D Trends in Inorganic Singleâ€Crystal Scintillator Materials for Radiation Detection. Advanced Optical Materials, 2015, 3, 463-481.	7.3	567
3	Composition Engineering in Cerium-Doped (Lu,Gd)₃(Ga,Al)₅O₁₂ Single-Crystal Scintillators. Crystal Growth and Design, 2011, 11, 4484-4490.	3.0	461
4	Wide Band Gap Scintillation Materials: Progress in the Technology and Material Understanding. Physica Status Solidi A, 2000, 178, 595-620.	1.7	359
5	Needs, Trends, and Advances in Inorganic Scintillators. IEEE Transactions on Nuclear Science, 2018, 65, 1977-1997.	2.0	305
6	Band-gap engineering for removing shallow traps in rare-earth Lu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml:	3.2	288
7	2inch diameter single crystal growth and scintillation properties of Ce:Gd3Al2Ga3O12. Journal of Crystal Growth, 2012, 352, 88-90.	1.5	272
8	Development of LuAG-based scintillator crystals â€“ A review. Progress in Crystal Growth and Characterization of Materials, 2013, 59, 47-72.	4.0	249
9	The antisite LuAl defect-related trap in Lu3Al5O12:Ce single crystal. Physica Status Solidi (B): Basic Research, 2005, 242, R119-R121.	1.5	199
10	Defect Engineering in Ce-Doped Aluminum Garnet Single Crystal Scintillators. Crystal Growth and Design, 2014, 14, 4827-4833.	3.0	197
11	Scintillator-oriented combinatorial search in Ce-doped (Y,Gd)₃(Ga,Al)₅O₁₂ multicomponent garnet compounds. Journal Physics D: Applied Physics, 2011, 44, 505104.	2.8	195
12	Traps and Timing Characteristics of LuAG:Ce3+ Scintillator. Physica Status Solidi A, 2000, 181, R10-R12.	1.7	194
13	Excitonic emission of scheelite tungstates AWO4 (A=Pb, Ca, Ba, Sr). Journal of Luminescence, 2000, 87-89, 1136-1139.	3.1	190
14	Challenge and study for developing of novel single crystalline optical materials using micro-pulling-down method. Optical Materials, 2007, 30, 6-10.	3.6	187
15	Complex oxide scintillators: Material defects and scintillation performance. Physica Status Solidi (B): Basic Research, 2008, 245, 1701-1722.	1.5	182
16	Photo- and radioluminescence of Pr-doped Lu3Al5O12 single crystal. Physica Status Solidi A, 2005, 202, R4-R6.	1.7	178
17	Shallow traps and radiative recombination processes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Lu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Al</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub><mml:mo>:</mml:mo><mml:mi mathvariant="normal">Ce</mml:mi></mml:mrow></mml:math> single crystal scintillator. Physical Review	3.2	168
18	Scintillation response of Ce-doped or intrinsic scintillating crystals in the range up to 1MeV. Radiation Measurements, 2004, 38, 353-357.	1.4	161

#	Article	IF	Citations
19	Luminescence and scintillation properties of YAG:Ce single crystal and optical ceramics. Journal of Luminescence, 2007, 126, 77-80.	3.1	159
20	Photoluminescence of Cs4PbBr6 crystals and thin films. Chemical Physics Letters, 1999, 306, 280-284.	2.6	151
21	Cz grown 2-in. size Ce:Gd3(Al,Ga)5O12 single crystal; relationship between Al, Ga site occupancy and scintillation properties. Optical Materials, 2014, 36, 1942-1945.	3.6	151
22	Exciton and antisite defect-related luminescence in Lu3Al5O12 and Y3Al5O12 garnets. Physica Status Solidi (B): Basic Research, 2007, 244, 2180-2189.	1.5	149
23	Crystal growth of Ce: PrF3 by micro-pulling-down method. Journal of Crystal Growth, 2004, 270, 427-432.	1.5	144
24	Antisite defect-free Lu3(GaxAl1â^'x)5O12:Pr scintillator. Applied Physics Letters, 2006, 88, 141916.	3.3	143
25	Effect of Mg²⁺ coâ€doping on the scintillation performance of LuAG:Ce ceramics. Physica Status Solidi - Rapid Research Letters, 2014, 8, 105-109.	2.4	142
26	Thermally stimulated tunneling in rare-earth-doped oxyorthosilicates. Physical Review B, 2008, 78, .	3.2	139
27	Radiation induced formation of color centers in PbWO4 single crystals. Journal of Applied Physics, 1997, 82, 5758-5762.	2.5	136
28	Temperature Dependence of Scintillation Properties of Bright Oxide Scintillators for Well-Logging. Japanese Journal of Applied Physics, 2013, 52, 076401.	1.5	135
29	Slow components in the photoluminescence and scintillation decays of PbWO₄ single crystals. Physica Status Solidi (B): Basic Research, 1996, 195, 311-323.	1.5	130
30	Pr³⁺-doped complex oxide single crystal scintillators. Journal Physics D: Applied Physics, 2009, 42, 055117.	2.8	128
31	Growth and scintillation properties of Pr-doped Lu3Al5O12 crystals. Journal of Crystal Growth, 2006, 287, 335-338.	1.5	124
32	Ce3+-doped fibers for remote radiation dosimetry. Applied Physics Letters, 2004, 85, 6356-6358.	3.3	123
33	Scintillation characteristics of Pr-doped Lu3Al5O12 single crystals. Journal of Crystal Growth, 2006, 292, 239-242.	1.5	123
34	Luminescence of undoped LuAG and YAG crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 97-100.	0.8	118
35	Efficient radioluminescence of the Ce3+-doped Naâ€“Gd phosphate glasses. Applied Physics Letters, 2000, 77, 2159-2161.	3.3	115
36	Alkali earth co-doping effects on luminescence and scintillation properties of Ce doped Gd3Al2Ga3O12 scintillator. Optical Materials, 2015, 41, 63-66.	3.6	114

#	Article	IF	Citations
37	Ternary alkali lead chlorides: Crystal growth, crystal structure, absorption and emission properties. Progress in Crystal Growth and Characterization of Materials, 1995, 30, 1-22.	4.0	108
38	X-ray Inducible Luminescence and Singlet Oxygen Sensitization by an Octahedral Molybdenum Cluster Compound: A New Class of Nanoscintillators. Inorganic Chemistry, 2016, 55, 803-809.	4.0	105
39	Improvement in transmittance and decay time of PbWO4 scintillating crystals by La-doping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 399, 261-268.	1.6	104
40	Energy transfer phenomena in the luminescence of wide band-gap scintillators. Physica Status Solidi A, 2005, 202, 201-206.	1.7	103
41	Crystal Growth and Scintillation Properties of Ce Doped ${m Gd}_{3}({m Ga},{m Al})_{5}{m O}_{12}$ Single Crystals. IEEE Transactions on Nuclear Science, 2012, 59, 2112-2115.	2.0	102
42	Ce3+ or Tb3+-doped phosphate and silicate scintillating glasses. Journal of Luminescence, 2000, 87-89, 673-675.	3.1	95
43	Optical properties of thePb2+-based aggregated phase in a CsCl host crystal: Quantum-confinement effects. Physical Review B, 1995, 51, 5192-5199.	3.2	94
44	Single crystalline film scintillators based on Ce- and Pr-doped aluminium garnets. Radiation Measurements, 2007, 42, 521-527.	1.4	92
45	Decay kinetics and thermoluminescence of PbWO4: La3+. Applied Physics Letters, 1997, 71, 3755-3757.	3.3	90
46	Effect of Mg 2+ ions co-doping on timing performance and radiation tolerance of Cerium doped Gd 3 Al 2 Ga 3 O 12 crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 816, 176-183.	1.6	90
47	Towards Bright and Fast Lu₃Al₅O₁₂:Ce,Mg Optical Ceramics Scintillators. Advanced Optical Materials, 2016, 4, 731-739.	7.3	87
48	Zeroâ€Dimensional Cs₃Cu₂I₅ Perovskite Single Crystal as Sensitive Xâ€Ray and Î³â€Ray Scintillator. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000374.	2.4	87
49	Fast 5dâ†'4f luminescence of Pr3+ in Lu2SiO5 single crystal host. Chemical Physics Letters, 2005, 410, 218-221.	2.6	85
50	Single Crystal Growth, Optical Properties and Neutron Response of ${m Ce}^{3+}$ Doped ${m LiCaAlF}_{6}$. IEEE Transactions on Nuclear Science, 2009, 56, 3796-3799.	2.0	84
51	A study of electron excitations in and single crystals. Journal of Physics Condensed Matter, 1997, 9, 249-256.	1.8	81
52	Lead bromide and ternary alkali lead bromide single crystals â€" growth and emission properties. Chemical Physics Letters, 1996, 258, 518-522.	2.6	80
53	Luminescence and scintillation of Ce³⁺â€doped oxide glass with high Gd₂O₃ concentration. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2830-2832.	1.8	79
54	Ultrabright and Highly Efficient Allâ€Inorganic Zeroâ€Dimensional Perovskite Scintillators. Advanced Optical Materials, 2021, 9, 2100460.	7.3	79

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55	Development of novel scintillator crystals. Journal of Crystal Growth, 2006, 292, 416-421.	1.5	78
56	Influence of La3+-Doping on Radiation Hardness and Thermoluminescence Characteristics of PbWO4. Physica Status Solidi A, 1997, 160, R5-R6.	1.7	77
57	Significant improvement of PbWO4 scintillating crystals by doping with trivalent ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 434, 412-423.	1.6	75
58	High-efficiency SiO2:Ce3+ glass scintillators. Applied Physics Letters, 2002, 81, 4374-4376.	3.3	75
59	Origin of the 420 nm absorption band in PbWO₄single crystals. Physica Status Solidi (B): Basic Research, 1996, 196, K7.	1.5	74
60	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
61	Development of BSO (Bi4Si3O12) crystal for radiation detector. Optical Materials, 2002, 19, 201-212.	3.6	72
62	Luminescence and defects creation in Ce3+-doped Lu3Al5O12 crystals. Physica Status Solidi (B): Basic Research, 2004, 241, 1134-1140.	1.5	71
63	Tunneling process in thermally stimulated luminescence of mixedLuxY1â^'xAlO3:Cecrystals. Physical Review B, 2000, 61, 8081-8086.	3.2	70
64	Polaronic centres in single crystals. Journal of Physics Condensed Matter, 1998, 10, 7293-7302.	1.8	68
65	Development and Performance Test of Picosecond Pulse X-ray Excited Streak Camera System for Scintillator Characterization. Applied Physics Express, 2010, 3, 056202.	2.4	67
66	Extensive studies on CeF3 crystals, a good candidate for electromagnetic calorimetry at future accelerators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 383, 367-390.	1.6	66
67	Enhanced efficiency of PbWO4:Mo,Nb scintillator. Journal of Applied Physics, 2002, 91, 5041-5044.	2.5	66
68	Growth and optical properties of Lu3(Ga,Al)5O12 single crystals for scintillator application. Journal of Crystal Growth, 2009, 311, 908-911.	1.5	66
69	Temperature dependence of luminescence characteristics of Lu2(1â^'x)Y2xSiO5:Ce3+ scintillator grown by the Czochralski method. Journal of Applied Physics, 2010, 108, .	2.5	66
70	Improvement of several properties of lead tungstate crystals with different doping ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 402, 75-84.	1.6	65
71	Scintillation characteristics of Lu3Al5O12:Ce optical ceramics. Journal of Applied Physics, 2007, 101, 033515.	2.5	64
72	Improvement in radiation hardness of PbWO4 scintillating crystals by La-doping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 404, 149-156.	1.6	63

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73	Cerium doped heavy metal fluoride glasses, a possible alternative for electromagnetic calorimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 524-536.	1.6	62
74	Band-Gap and Band-Edge Engineering of Multicomponent Garnet Scintillators from First Principles. Physical Review Applied, 2015, 4, .	3.8	62
75	A new model for the visible emission of the CsI: Tl crystal. Chemical Physics Letters, 1994, 227, 533-538.	2.6	61
76	Growth of lead tungstate single crystal scintillators. Journal of Crystal Growth, 1996, 165, 163-165.	1.5	61
77	Scintillator Materialsâ€"Achievements, Opportunities, and Puzzles. IEEE Transactions on Nuclear Science, 2008, 55, 1035-1041.	2.0	60
78	PhotoinducedPb+center inPbWO4:Electron spin resonance and thermally stimulated luminescence study. Physical Review B, 2001, 64, .	3.2	57
79	Scintillation Properties of Transparent Ceramic Pr:LuAG for Different Pr Concentration. IEEE Transactions on Nuclear Science, 2012, 59, 2146-2151.	2.0	57
80	Luminescence of CsPbBr3-like quantum dots in CsBr single crystals. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 4, 323-331.	2.7	56
81	Growth and scintillation characteristics of CeF3, PrF3 and NdF3 single crystals. Journal of Crystal Growth, 2004, 264, 208-215.	1.5	56
82	Preparation and luminescence properties of ZnO:Ga â€“ polystyrene composite scintillator. Optics Express, 2016, 24, 15289.	3.4	56
83	Tetranuclear Copper(I) Iodide Complexes: A New Class of X-ray Phosphors. Inorganic Chemistry, 2017, 56, 4609-4614.	4.0	56
84	The blue luminescence of PbWO4 single crystals. Journal of Luminescence, 1997, 72-74, 781-783.	3.1	55
85	Charge transfer luminescence in Yb3+-containing compounds. Optical Materials, 2004, 26, 545-549.	3.6	55
86	Decay kinetics of the green emission in tungstates and molybdates. Radiation Measurements, 2004, 38, 533-537.	1.4	55
87	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
88	Luminescence and scintillation of Ce3+-doped high silica glass. Optical Materials, 2012, 34, 1762-1766.	3.6	55
89	Photoluminescence & decay kinetics of Cs4PbCl6 single crystals. Solid State Communications, 1992, 84, 1089-1092.	1.9	54
90	Scintillation and spectroscopic properties of Ce3+-doped YAlO3 and Lux(RE)1â^'xAlO3(RE=Y3+ and Gd3+) scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 498, 312-327.	1.6	54

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91	Hole and electron traps in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YAlO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow> crystal scintillator. Physical Review B, 2009, 80, .	3.2	54
92	Highly Resolved Xâ€Ray Imaging Enabled by In(I) Doped Perovskiteâ€Like Cs₃Cu₂I₅ Single Crystal Scintillator. Advanced Optical Materials, 2022, 10, .	7.3	54
93	Photoluminescence of Bi3+in Y3Ga5O12single-crystal host. Journal of Physics Condensed Matter, 2005, 17, 3367-3375.	1.8	53
94	Quantum size effect in the excitonic luminescence of CsPbX3-like quantum dots in CsX (X = Cl, Br) single crystal host. Journal of Luminescence, 1997, 72-74, 377-379.	3.1	52
95	Shallow traps inPbWO4studied by wavelength-resolved thermally stimulated luminescence. Physical Review B, 1999, 60, 4653-4658.	3.2	52
96	Non-Hygroscopic, Self-Absorption Free, and Efficient 1D CsCu₂I₃ Perovskite Single Crystal for Radiation Detection. ACS Applied Materials & Interfaces, 2021, 13, 12198-12202.	8.0	52
97	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
98	Octahedral molybdenum clusters as radiosensitizers for X-ray induced photodynamic therapy. Journal of Materials Chemistry B, 2018, 6, 4301-4307.	5.8	51
99	Europium and Sodium Codoped LiCaAlF$_{6}$ Scintillator for Neutron Detection. Applied Physics Express, 2011, 4, 106401.	2.4	50
100	Crystal Growth of Na-Co-Doped Ce:LiCaAlF₆ Single Crystals and Their Optical, Scintillation, and Physical Properties. Crystal Growth and Design, 2011, 11, 4775-4779.	3.0	50
101	Gd³⁺ to Ce³⁺ energy transfer in multiâ€component GdLuAG and GdYAG garnet scintillators. Physica Status Solidi - Rapid Research Letters, 2013, 7, 571-574.	2.4	50
102	Electron traps related to oxygen vacancies inPbWO4. Physical Review B, 2003, 67, .	3.2	49
103	Large Size Czochralski Growth and Scintillation Properties of. IEEE Transactions on Nuclear Science, 2016, 63, 443-447.	2.0	49
104	Luminescence of ions in single crystalline films. Radiation Measurements, 2007, 42, 882-886.	1.4	48
105	Comparison of absorption, luminescence and scintillation characteristics in Lu1.95Y0.05SiO5:Ce,Ca and Y2SiO5:Ce scintillators. Optical Materials, 2013, 35, 1679-1684.	3.6	48
106	Luminescence Spectroscopy and Origin of Luminescence Centers in Bi-Doped Materials. Crystals, 2020, 10, 208.	2.2	48
107	Crystal growth and luminescence properties of Li2B4O7 single crystals doped with Ce, In, Ni, Cu and Ti ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 264-267.	1.6	47
108	Scintillation Properties of ${m Ce}^{3+}$- and ${m Pr}^{3+}$-Doped LuAG, YAG and Mixed ${m Lu}_{m x}{m Y}_{1-{m x}}{m AG}$ Garnet Crystals. IEEE Transactions on Nuclear Science, 2012, 59, 2120-2125.	2.0	47

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109	An effect of Zr4+ co-doping of YAP:Ce scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 250-253.	1.6	46
110	Paramagnetic impurity defects in LuAG:Ce thick film scintillators. Radiation Measurements, 2007, 42, 835-838.	1.4	46
111	Effect of reducing sintering atmosphere on Ce-doped solâ€“gel silica glasses. Journal of Non-Crystalline Solids, 2009, 355, 1140-1144.	3.1	46
112	Growth and characterization of YAG and LuAG epitaxial films for scintillation applications. Journal of Crystal Growth, 2010, 312, 1538-1545.	1.5	46
113	Decay kinetics of the slow component of Pb2+ emission in KX (X = Cl, Br, I) crystals. Journal of Luminescence, 1992, 54, 189-196.	3.1	45
114	Fluorescence and scintillation properties of LuAlO3:Ce crystal. Chemical Physics Letters, 1995, 241, 311-316.	2.6	45
115	La-doped PbWO4 scintillating crystals grown in large ingots. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 414, 325-331.	1.6	45
116	Luminescence of doped lithium tetraborate single crystals and glass. Radiation Measurements, 2004, 38, 571-574.	1.4	45
117	Thermochromic Fluorescence from B₁₈H₂₀(NC₅H₅)₂: An Inorganicâ€“Organic Composite Luminescent Compound with an Unusual Molecular Geometry. Advanced Optical Materials, 2017, 5, 1600694.	7.3	45
118	Lead-Free Zero-Dimensional Organic-Copper(I) Halides as Stable and Sensitive X-ray Scintillators. ACS Applied Materials & Interfaces, 2022, 14, 14157-14164.	8.0	45
119	Energy transfer to the Ce3+ centers in Lu3Al5O12:Ce scintillator. Physica Status Solidi A, 2004, 201, R41-R44.	1.7	44
120	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
121	Insights into Microstructural Features Governing Ce3+ Luminescence Efficiency in Solâ”Gel Silica Glasses. Chemistry of Materials, 2006, 18, 6178-6185.	6.7	44
122	Synthesis of inorganic nanoparticles by ionizing radiation â€“ a review. Radiation Physics and Chemistry, 2020, 169, 108774.	2.8	44
123	Influence of doping on the emission and scintillation characteristics of PbWO4 single crystals. Journal of Applied Physics, 2000, 87, 4243-4248.	2.5	43
124	Ce-doped YAG and LuAG Epitaxial Films for Scintillation Detectors. IEEE Transactions on Nuclear Science, 2008, 55, 1201-1205.	2.0	43
125	Energy migration processes in undoped and Ce-doped multicomponent garnet single crystal scintillators. Journal of Luminescence, 2015, 166, 117-122.	3.1	43
126	Development of new mixed Lux(RE3+)1â”xAP:Ce scintillators (RE3+=Y3+ or Gd3+):comparison with other Ce-doped or intrinsic scintillating crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 331-341.	1.6	42

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127	Spectroscopy of CsPbBr3 quantum dots in CsBr:Pb crystals. Journal of Luminescence, 2001, 93, 27-41.	3.1	42
128	Complete characterization of doubly doped PbWO4:Mo,Y scintillators. Journal of Applied Physics, 2002, 91, 2791-2797.	2.5	42
129	Scintillation and optical properties of YAG:Ce films grown by liquid phase epitaxy. Radiation Measurements, 2007, 42, 533-536.	1.4	42
130	Positron emission mammography using Pr:LuAG scintillator â€“ Fusion of optical material study and systems engineering. Optical Materials, 2010, 32, 1294-1297.	3.6	42
131	Temperature-dependent nonradiative energy transfer from Gd3+ to Ce3+ ions in co-doped LuAG:Ce,Gd garnet scintillators. Journal of Luminescence, 2015, 167, 106-113.	3.1	42
132	Fabrication of homoepitaxial ZnO films by low-temperature liquid-phase epitaxy. Journal of Crystal Growth, 2006, 287, 367-371.	1.5	41
133	Microstructure, optical, and scintillation characteristics of Pr3+ doped Lu3Al5O12 optical ceramics. Journal of Applied Physics, 2011, 109, 013522.	2.5	41
134	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
135	CsI:Tl⁺,Yb²⁺: ultra-high light yield scintillator with reduced afterglow. CrystEngComm, 2014, 16, 3312-3317.	2.6	41
136	Composition Tailoring in Ce-Doped Multicomponent Garnet Epitaxial Film Scintillators. Crystal Growth and Design, 2015, 15, 3715-3723.	3.0	41
137	Photoluminescence and decay kinetics of CsPbCl3 single crystals. Chemical Physics Letters, 1994, 220, 14-18.	2.6	40
138	Preparation, luminescence and structural properties of RE-doped RbLaS2 compounds. Acta Materialia, 2011, 59, 6219-6227.	7.9	40
139	Structural and optical properties of Vernier phase lutetium oxyfluorides doped with lanthanide ions: interesting candidates as scintillators and X-ray phosphors. Journal of Materials Chemistry, 2012, 22, 10639.	6.7	40
140	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
141	Ce3+luminescent centers of different symmetries in KMgF3single crystals. Physical Review B, 1997, 56, 15109-15114.	3.2	39
142	Electron capture inPbWO4: Mo andPbWO4:Mo,La single crystals: ESR and TSL study. Physical Review B, 2005, 71, .	3.2	39
143	The Harmful Effects of Sintering Aids in <scp><scp>Pr</scp></scp>:<scp><scp>Lu</scp><scp>AG</scp></scp> Optical Ceramic Scintillator. Journal of the American Ceramic Society, 2012, 95, 2130-2132.	3.8	39
144	Hole Self-Trapping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Al</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mn>12</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overfl. Physical Review Applied, 2018, 10, .	3.8	39

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145	Polarized luminescence of CsPbBr3 nanocrystals (quantum dots) in CsBr:Pb single crystal. Chemical Physics Letters, 1999, 314, 31-36.	2.6	38
146	Scintillation Decay of LiCaAlF6:Ce3+ Single Crystals. Physica Status Solidi A, 2001, 187, R1-R3.	1.7	38
147	Growth and characterization of BaLiF3 single crystal as a new optical material in the VUV region. Journal of Alloys and Compounds, 2003, 348, 258-262.	5.5	38
148	Deep trapping states in cerium doped (Lu,Y,Gd)3(Ga,Al)5O12 single crystal scintillators. Radiation Measurements, 2013, 56, 98-101.	1.4	38
149	Optical, Structural and Paramagnetic Properties of Eu-Doped Ternary Sulfides ALnS2 (A = Na, K, Rb; Ln =) Tj ETQq1 1 0.784314 rgBT /Ov	2.9	38
150	Scintillator materials for x-ray detectors and beam monitors. MRS Bulletin, 2017, 42, 451-457.	3.5	38
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