

Andrzej J Wojtowicz

List of Publications by Year in descending order

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107
papers

2,931
citations

159585

30
h-index

189892

50
g-index

108
all docs

108
docs citations

108
times ranked

1678
citing authors

#	ARTICLE	IF	CITATIONS
1	Heading for brighter and faster $\text{Lu}^{2+}\text{-Ga}_2\text{O}_3$ scintillator crystals. <i>Optical Materials</i> : X, 2022, 15, 100157.	0.8	5
2	Recent progress in the development of $\text{Lu}^{2+}\text{-Ga}_2\text{O}_3$ scintillator crystals grown by the Czochralski method. <i>Optical Materials Express</i> , 2021, 11, 2488.	3.0	6
3	Bulk $\text{Lu}^{2+}\text{-Ga}_2\text{O}_3$ single crystals doped with Ce, Ce+Si, Ce+Al, and Ce+Al+Si for detection of nuclear radiation. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152842.	5.5	28
4	Semiconductor scintillator development: Pure and doped $\text{Lu}^{2+}\text{-Ga}_2\text{O}_3$. <i>Optical Materials</i> , 2020, 105, 109856.	3.6	22
5	$\text{Lu}^{2+}\text{-Ga}_2\text{O}_3\text{:Ce}$ as a fast scintillator: An unclear role of cerium. <i>Radiation Measurements</i> , 2019, 121, 49-53.	1.4	23
6	Tailoring the scintillation properties of $\text{Lu}^{2+}\text{-Ga}_2\text{O}_3$ by doping with Ce and codoping with Si. <i>Optical Materials Express</i> , 2019, 9, 3738.	3.0	15
7	Luminescence and scintillation properties of $\text{XPO}_4\text{:Nd}^{3+}$ (X = Y, Lu, Sc, La) crystals. <i>Optical Materials</i> , 2018, 79, 273-278.	3.6	8
8	A deeper insight into (Lu,Y)AG:Pr scintillator crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 169, 012010.	0.6	2
9	A preliminary assessment of $\text{Lu}_2\text{Y}_2\text{Al}_2\text{O}_9\text{:Pr}$ (LuYAM:Pr) as a potential scintillator. <i>Radiation Measurements</i> , 2016, 93, 41-45.	1.4	3
10	Thermoluminescent properties of $\text{HfO}_2\text{:Ti}$ after exposure to X-rays. <i>Radiation Measurements</i> , 2016, 90, 140-144.	1.4	9
11	Effect of Lu-to-Y ratio and Mo coactivation on scintillation properties of LuYAG:Pr and LuAG:Pr,Mo crystals. <i>Optical Materials</i> , 2016, 59, 107-114.	3.6	26
12	Photoluminescent Properties of Monoclinic $\text{HfO}_2\text{:Ti}$ Sintered Ceramics in 16–300 K. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5026-5032.	3.1	15
13	Photo- and radioluminescent properties of undoped and Bi-doped Lu_2WO_6 powders at 10–300K. <i>Journal of Luminescence</i> , 2015, 160, 50-56.	3.1	16
14	33000 photons per MeV from mixed (Lu _{0.75} Y _{0.25}) ₃ Al ₅ O ₁₂ :Pr scintillator crystals. <i>Optical Materials Express</i> , 2014, 4, 1207.	3.0	45
15	Studies of light yield as a function of temperature and low temperature thermoluminescence of $\text{Gd}_3\text{Al}_2\text{Ga}_3\text{O}_{12}\text{:Ce}$ scintillator crystals. <i>Optical Materials</i> , 2014, 36, 1665-1669.	3.6	65
16	Effect of doping with cobalt on radioluminescence and low temperature thermoluminescence of $\text{Li}_2\text{B}_4\text{O}_7$ crystals. <i>Radiation Measurements</i> , 2014, 70, 29-33.	1.4	2
17	Studies of low temperature thermoluminescence of GAGG:Ce and LuAG:Pr scintillator crystals using the $T_{\text{max}}-T_{\text{stop}}$ method. <i>Journal of Luminescence</i> , 2014, 154, 452-457.	3.1	72
18	The 1S ₀ emission from the minor site of Pr ³⁺ in (Ba,Lu)F ₂ :Pr. <i>Radiation Measurements</i> , 2013, 56, 407-410.	1.4	0

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19	Effect of thermal annealing on light yield, low temperature thermoluminescence, and time profiles of LuAG:Pr scintillator crystals. <i>Radiation Measurements</i> , 2013, 56, 80-83.	1.4	14
20	Conference Comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2037-2037.	2.0	0
21	High and low spin energy states of the Tb ³⁺ 4f ⁷ 5d configuration in BaF ₂ . <i>Optical Materials</i> , 2011, 33, 1535-1539.	3.6	9
22	Properties of Ce-activated alkali-lutetium double phosphate scintillators. <i>Radiation Measurements</i> , 2010, 45, 400-402.	1.4	4
23	Scintillation yield of Bi ₄ Ge ₃ O ₁₂ (BGO) pixel crystals. <i>Physica B: Condensed Matter</i> , 2010, 405, 1647-1651.	2.7	53
24	EditorialConference Comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1161-1161.	2.0	0
25	VUV spectroscopy of BaF ₂ :Er. <i>Optical Materials</i> , 2009, 31, 474-478.	3.6	10
26	Scintillation light yield of BaF ₂ :Ce. <i>Optical Materials</i> , 2009, 31, 523-526.	3.6	14
27	VUV spectroscopy of wide bandgap materials. <i>Optical Materials</i> , 2009, 31, 1772-1776.	3.6	6
28	Fast and efficient VUV/UV emissions from (Ba,Lu)F ₂ :Er crystals. <i>Journal of Luminescence</i> , 2009, 129, 1594-1597.	3.1	7
29	Scintillation properties of LuAP and LuYAP crystals activated with Cerium and Molybdenum. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 562, 254-261.	1.6	37
30	Scintillation properties of selected oxide monocrystals activated with Ce and Pr. <i>Optical Materials</i> , 2006, 28, 85-93.	3.6	73
31	Scintillation properties of Pr-activated LuAlO ₃ . <i>Optical Materials</i> , 2006, 28, 102-105.	3.6	32
32	Thermoluminescence and scintillation of praseodymium-activated Y ₃ Al ₅ O ₁₂ and LuAlO ₃ crystals. <i>Journal of Crystal Growth</i> , 2005, 275, e709-e714.	1.5	43
33	Thermoluminescence and scintillation properties of rare earth oxyorthosilicate scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 1103-1110.	2.0	37
34	VUV spectroscopy and low temperature thermoluminescence of LSO:Ce and YSO:Ce. <i>Journal of Alloys and Compounds</i> , 2004, 380, 146-150.	5.5	46
35	Scintillation and luminescence properties of Ce-activated K ₃ Lu(PO ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2004, 380, 191-195.	5.5	25
36	Rb ₃ Lu(PO ₄) ₂ :Ce and Cs ₃ Lu(PO ₄) ₂ :Ce – new promising scintillator materials. <i>Crystal Research and Technology</i> , 2003, 38, 275-282.	1.3	36

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37	Thermoluminescence and scintillation properties of rare earth oxyorthosilicate scintillators. , 2003, , .		0
38	Luminescence and scintillation properties of YAG:Pr. IEEE Transactions on Nuclear Science, 2002, 49, 926-930.	2.0	17
39	VUV scintillation of LuPO ₄ :Nd and YPO ₄ :Nd. IEEE Transactions on Nuclear Science, 2002, 49, 937-940.	2.0	19
40	Scintillation properties and mechanism in Lu _{0.8} Y _{0.2} AlO ₃ :Ce. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 176-180.	1.6	36
41	Rare-earth-activated wide bandgap materials for scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 201-207.	1.6	44
42	LuPO ₄ :Nd and YPO ₄ :Nd – new promising VUV scintillation materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 239-243.	1.6	52
43	Fast 20ns 5d → 4f luminescence and radiation trapping in BaF ₂ :Ce. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 412-416.	1.6	31
44	Traps and recombination centers in YAlO ₃ :Ce,Co. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 482-485.	1.6	10
45	Pulsed laser deposition of Nd:YAG on Si with substrate bias voltage. Applied Surface Science, 2002, 193, 261-267.	6.1	8
46	<title>Radio- and VUV-excited luminescence of YAP:Ce, YAP:Pr and YAG:Pr</title>. , 2001, , .		12
47	<title>X-ray study of Nd:YAG on (111)-oriented Si obtained by pulsed laser deposition</title>. , 2001, 4412, 396.		3
48	<title>Energy transfer processes in (Lu,Gd)AlO ₃ :Ce</title>. , 2001, 4412, 221.		0
49	<title>Charge traps and emission kinetics in LuAP:Ce</title>. , 2001, , .		1
50	Electron traps and scintillation mechanism in LuAlO ₃ :Ce. Journal of Physics Condensed Matter, 2001, 13, 9599-9619.	1.8	38
51	Radioluminescence and recombination processes in BaF ₂ :Ce. Journal of Physics Condensed Matter, 2000, 12, 4097-4124.	1.8	38
52	Radiative recombination in Ce-, Pr-, and Tb-doped barium fluoride. Journal of Alloys and Compounds, 2000, 300-301, 199-206.	5.5	12
53	Thermoluminescence and scintillation properties of LuAP and YAP. Journal of Alloys and Compounds, 2000, 300-301, 289-294.	5.5	49
54	Radiative recombination in BaF ₂ :Pr. Journal of Alloys and Compounds, 2000, 300-301, 261-266.	5.5	14

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55	Changes in optical properties of YAG:Ce single crystals due to codoping and ionizing radiation treatment. , 1999, 3724, 339.		7
56	Some Aspects of Solid State Radioluminescence. Acta Physica Polonica A, 1999, 95, 165-178.	0.5	5
57	Charge Traps in Ce-Doped CaF ₂ and BaF ₂ . Acta Physica Polonica A, 1999, 95, 251-258.	0.5	17
58	Thermoluminescence and Scintillation Time Profiles of BaF ₂ :Ce. Acta Physica Polonica A, 1999, 95, 259-268.	0.5	6
59	Photoluminescence Kinetics of YAG Crystals Activated with Ce, and Ce and Mg. Acta Physica Polonica A, 1999, 95, 395-402.	0.5	12
60	Excited State Absorption and Thermoluminescence in Ce and Mg Doped Yttrium Aluminum Garnet. Acta Physica Polonica A, 1999, 95, 403-412.	0.5	10
61	Electron traps and scintillation mechanism in YAlO ₃ :Ce and LuAlO ₃ :Ce scintillators. Journal of Luminescence, 1998, 79, 275-291.	3.1	84
62	Thermoluminescence and scintillation of LuAlO ₃ :Ce. Radiation Measurements, 1998, 29, 323-326.	1.4	26
63	Recombination and scintillation processes in. Journal of Physics Condensed Matter, 1998, 10, 8401-8415.	1.8	50
64	Scintillation mechanism in RE-activated fluorides. Journal of Luminescence, 1997, 72-74, 731-733.	3.1	16
65	Properties of the new LuAP:Ce scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 385, 123-131.	1.6	108
66	Thermoluminescence of LuAlO ₃ : Ce. Journal of Luminescence, 1997, 72-74, 756-758.	3.1	15
67	Luminescence properties of Ce-activated YAG optical ceramic scintillator materials. Journal of Luminescence, 1997, 75, 193-203.	3.1	178
68	Spectroscopy and scintillation mechanism in LuAlO ₃ :Ce. Journal of Luminescence, 1997, 72-74, 789-791.	3.1	11
69	The carrier capture and recombination processes in Ln ³⁺ -activated scintillators. IEEE Transactions on Nuclear Science, 1996, 43, 2168-2173.	2.0	37
70	Lutetium aluminate: spectroscopic and scintillation properties. IEEE Transactions on Nuclear Science, 1996, 43, 1316-1320.	2.0	33
71	Spectroscopy and Thermoluminescence of LuAlO ₃ :Ce. Acta Physica Polonica A, 1996, 90, 377-384.	0.5	14
72	New High Performance Scintillators Based on Re-Activated Insulator Materials. Acta Physica Polonica A, 1996, 90, 215-222.	0.5	0

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73	LuAlO ₃ :Ce and other aluminate scintillators. IEEE Transactions on Nuclear Science, 1995, 42, 280-284.	2.0	221
74	Scintillation mechanisms in rare earth orthophosphates. Radiation Effects and Defects in Solids, 1995, 135, 305-310.	1.2	24
75	Study of closed-shell molecular complexes as possible laser media. IEEE Journal of Quantum Electronics, 1995, 31, 1554-1560.	1.9	6
76	Fundamental limitations of scintillators. Journal of Luminescence, 1994, 60-61, 942-947.	3.1	50
77	The scintillation properties of Ce _x La _{1-x} F ₃ . Journal of Luminescence, 1994, 60-61, 987-990.	3.1	0
78	Scintillation light trapping and radiation damage in CeF ₃ . IEEE Transactions on Nuclear Science, 1994, 41, 713-718.	2.0	15
79	Optical spectroscopy and scintillation mechanisms of Ce _x La _{1-x} F ₃ . Physical Review B, 1994, 49, 14880-14895.	3.2	111
80	Cerium-Doped Orthophosphate Scintillators. Materials Research Society Symposia Proceedings, 1994, 348, 123.	0.1	30
81	Scintillation Mechanism and Radiation Damage in Ce _x La _{1-x} F ₃ Crystals. Materials Research Society Symposia Proceedings, 1994, 348, 455.	0.1	7
82	Fundamental limits of scintillator performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 333, 304-311.	1.6	238
83	Excited-state absorption in excimer-pumped CaWO ₄ crystals. Journal of Luminescence, 1993, 54, 345-355.	3.1	38
84	Luminescence Quenching of Strongly Coupled Systems. Physica Status Solidi (B): Basic Research, 1993, 179, 233-240.	1.5	12
85	Cerium-doped orthophosphates: new promising scintillators. IEEE Transactions on Nuclear Science, 1993, 40, 384-387.	2.0	92
86	Luminescence and Scintillation Properties of Ce _x La _{1-x} F ₃ Monocrystals. Acta Physica Polonica A, 1993, 84, 963-968.	0.5	0
87	Stoichiometric cerium compounds as scintillators, II. CeP ₅ O ₁₄ . IEEE Transactions on Nuclear Science, 1992, 39, 1542-1548.	2.0	37
88	Stoichiometric cerium compounds as scintillators. I. CeF ₃ . IEEE Transactions on Nuclear Science, 1992, 39, 494-501.	2.0	26
89	Thermal effects in excimer-excited bismuth germanate. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 1831.	2.1	2
90	Luminescence of Cr ³⁺ in kyanite. Journal of Luminescence, 1991, 50, 221-230.	3.1	24

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91	The coupling of 4T ₂ and 2E states of the Cr ³⁺ ion in solid state materials. Journal of Luminescence, 1991, 50, 231-242.	3.1	35
92	Spin-Orbit Coupling in Cr ³⁺ Ion in Solid State Materials. Acta Physica Polonica A, 1991, 79, 235-238.	0.5	1
93	Physics of Solid-State Laser Materials. Acta Physica Polonica A, 1991, 80, 193-205.	0.5	6
94	Cr ³⁺ in kyanite: A new mechanism of thermally enhanced 2E decay. Journal of Luminescence, 1990, 46, 271-276.	3.1	13
95	Luminescence of Cr ³⁺ in sillimanite. Physical Review B, 1989, 39, 8695-8701.	3.2	20
96	Broadband impurity absorption and luminescence: experiment and line-shape calculations. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 1106.	2.1	25
97	Luminescence of Cr ³⁺ in mullite transparent glass ceramics (II). Journal of Luminescence, 1988, 39, 189-203.	3.1	32
98	Spectroscopic characteristics of chromium doped mullite glass-ceramics. IEEE Journal of Quantum Electronics, 1988, 24, 1109-1113.	1.9	23
99	Rapid intensity fluctuations of light scattered by glasses. Physical Review B, 1987, 36, 9413-9415.	3.2	5
100	Polarization of Ag luminescence in ZnSe. Journal of Crystal Growth, 1985, 72, 167-169.	1.5	0
101	Unknown Excited States of the Self-Activated Center in ZnSe. Physica Status Solidi (B): Basic Research, 1982, 112, K103.	1.5	3
102	Luminescence of Ag atoms removed from the surfaces of AgI crystals irradiated by nitrogen laser. Journal of Luminescence, 1975, 11, 83-89.	3.1	0
103	Cerium compounds as scintillators. , 0, , .		11
104	CeF ₃ / Scintillator: The State Of The Art. , 0, , .		0
105	New Trends In Scintillator Research. , 0, , .		1
106	Luminescence and scintillation properties of YAG:Pr. , 0, , .		2
107	VUV scintillation of LuPO ₄ :Nd and YPO ₄ :Nd. , 0, , .		0