Kei Kamada

List of Publications by Year
in descending order

80 papers	2,614 citations	331670 21 h-index	189892 50 g-index
80 all docs	80 docs citations	80 times ranked	1173 citing authors

#	Article	IF	Citations
1	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
2	2inch diameter single crystal growth and scintillation properties of Ce:Gd3Al2Ga3O12. Journal of Crystal Growth, 2012, 352, 88-90.	1.5	272
3	Defect Engineering in Ce-Doped Aluminum Garnet Single Crystal Scintillators. Crystal Growth and Design, 2014, 14, 4827-4833.	3.0	197
4	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
5	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
6	Performance of cerium-doped Gd3Al2Ga3O12 (GAGG:Ce) scintillator in gamma-ray spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 712, 34-40.	1.6	117
7	Alkali earth co-doping effects on luminescence and scintillation properties of Ce doped Gd3Al2Ga3O12 scintillator. Optical Materials, 2015, 41, 63-66.	3.6	114
8	A prototype of aerial radiation monitoring system using an unmanned helicopter mounting a GAGG scintillator Compton camera. Journal of Nuclear Science and Technology, 2016, 53, 1067-1075.	1.3	80
9	Studies of low temperature thermoluminescence of GAGG:Ce and LuAG:Pr scintillator crystals using the Tmaxâ€“Tstop method. Journal of Luminescence, 2014, 154, 452-457.	3.1	72
10	Studies of light yield as a function of temperature and low temperature thermoluminescence of Gd3Al2Ga3O12:Ce scintillator crystals. Optical Materials, 2014, 36, 1665-1669.	3.6	65
11	Large Size Czochralski Growth and Scintillation Properties of. IEEE Transactions on Nuclear Science, 2016, 63, 443-447.	2.0	49
12	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
13	Field test around Fukushima Daiichi nuclear power plant site using improved Ce:Gd₃(Al,Ga)₅O₁₂ scintillator Compton camera mounted on an unmanned helicopter. Journal of Nuclear Science and Technology, 2016, 53, 1907-1918.	1.3	38
14	Luminescence and scintillation mechanism in Ce3+and Pr3+doped (Lu,Y,Gd)3(Ga,Al)5O12single crystal scintillators. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 172-175.	0.8	37
15	Growth and scintillation properties of 3 in. diameter Ce doped Gd3Ga3Al2O12 scintillation single crystal. Journal of Crystal Growth, 2016, 452, 81-84.	1.5	37
16	A novel gamma-ray detector with submillimeter resolutions using a monolithic MPPC array with pixelized Ce:LYSO and Ce:GGAG crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 699, 235-241.	1.6	36
17	Orientation relationships of unidirectionally aligned GdAlO3/Al2O3 eutectic fibers. Journal of the European Ceramic Society, 2014, 34, 3849-3857.	5.7	36
18	Growth, Structural Considerations, and Characterization of Ce-Doped (La,Gd)₂Si₂O₇ Scintillating Crystals. Crystal Growth and Design, 2015, 15, 1642-1651.	3.0	31

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19	Optical and scintillation properties of Ce 3+ -doped YGd 2 Al 5â˜x Ga x O 12 (x =2,3,4) single crystal scintillators. Journal of Luminescence, 2016, 169, 43-50.	3.1	31
20	Scintillation properties of Ce:(La,Gd)2Si2O7 at high temperatures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 772, 72-75.	1.6	28
21	Luminescence and scintillation characteristics of Gd3Al2Ga3O12:Ce3+ scintillators. Optical Materials, 2013, 36, 568-571.	3.6	24
22	Probing shallow electron traps in cerium-doped Gd₃Al₂Ga₃O₁₂ scintillators by UV-induced absorption spectroscopy. Applied Physics Express, 2016, 9, 072602.	2.4	24
23	Growth and scintillation properties of Eu doped LiSrI3/LiI eutectics. Optical Materials, 2017, 68, 70-74.	3.6	23
24	Development of novel growth methods for halide single crystals. Optical Materials, 2017, 65, 46-51.	3.6	22
25	LiF/CaF₂/LiBaF₃ ternary fluoride eutectic scintillator. Japanese Journal of Applied Physics, 2015, 54, 04DH04.	1.5	21
26	Luminescence and scintillation characteristics of (GdxY3-x)Al2Ga3O12:Ce (xÂ=Â1,2,3) single crystals. Optical Materials, 2018, 76, 162-168.	3.6	21
27	Scintillation properties of Gd3(Al5-xGax)O12:Ce (x = 2.3, 2.6, 3.0) single crystals. Optical Materials, 2018, 81, 23-29.	3.6	17
28	Development of a novel red-emitting cesium hafnium iodide scintillator. Radiation Measurements, 2019, 124, 54-58.	1.4	17
29	Luminescence and scintillation properties of Ce dope SrHfO3 based eutectics. Optical Materials, 2015, 41, 41-44.	3.6	14
30	Fiber-read radiation monitoring system using an optical fiber and red-emitting scintillator for ultra-high-dose conditions. Applied Physics Express, 2020, 13, 047002.	2.4	14
31	A Crosshair Light Sharing PET Detector With DOI and TOF Capabilities Using Four-to-One Coupling and Single-Ended Readout. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 638-644.	3.7	14
32	The scintillation performance of one-inch diameter CsI/CsCl/NaCl eutectics grown by the Czochralski method. Journal of Crystal Growth, 2021, 572, 126266.	1.5	14
33	Development of crosshair light sharing PET detector with TOF and DOI capabilities using fast LGSO scintillator. Physics in Medicine and Biology, 2021, 66, 225003.	3.0	14
34	Growth of 2 Inch Eu-doped SrI2 single crystals for scintillator applications. Journal of Crystal Growth, 2016, 452, 73-80.	1.5	13
35	Cesium hafnium chloride scintillator coupled with an avalanche photodiode photodetector. Journal of Instrumentation, 2017, 12, C02042-C02042.	1.2	13
36	Development of a high resolution LaGPS imaging detector with pulse shape discrimination capability of different types of radiations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 8-18.	1.6	13

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37	Development of Single-Ended Readout DOI Detector With Quadrisected Crystals. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 563-569.	3.7	13
38	Optimization of Dopants and Scintillation Fibersâ€™ Diameter of GdAlO₃/$alpha$ -Al₂O₃ Eutectic for High-Resolution X-Ray Imaging. IEEE Transactions on Nuclear Science, 2018, 65, 2036-2040.	2.0	13
39	Scintillation Characteristics of MgÂ²âº-Codoped Y_{0.8}Gd_{2.2}(Alâ,..._{â€“}â,“Gaâ,“)O₁₂:Ce Single Crystals. IEEE Transactions on Nuclear Science, 2020, 67, 910-914.	1.4	11
40	Development of large size crystal growth technology of oxide eutectic scintillator and a proto-type Talbotâ€“Lau imaging system. Japanese Journal of Applied Physics, 2021, 60, SBBK04.	1.5	11
41	Growth of ⁶Li-enriched LiCl/BaCl₂ eutectic as a novel neutron scintillator. Japanese Journal of Applied Physics, 2022, 61, SC1038.	1.5	11
42	Growth of 1.5-In Eu : Single Crystal and Scintillation Properties. IEEE Transactions on Nuclear Science, 2016, 63, 467-470.	2.0	10
43	Growth and luminescence properties of Eu-doped HfO2/Î±-Al2O3 eutectic scintillator. Journal of Rare Earths, 2016, 34, 796-801.	4.8	10
44	Crystal growth and luminescence properties of Yb2Si2O7 infra-red emission scintillator. Optical Materials, 2016, 58, 14-17.	3.6	9
45	An ultrahigh spatial resolution radiation-imaging detector using 0.1ÂmmÂÃ—Â0.1 mm pixelated GAGG plate combined with 1 mm channel size Si-PM array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 919, 125-133.	1.6	9
46	Luminescence and Scintillation Properties of Mg²⁺-Codoped Lu_{0.6}Gd_{2.4}Al₂Ga₃O₁₂:Ce Single Crystal. IEEE Transactions on Nuclear Science, 2020, 67, 904-909.	2.0	9
47	Scintillation properties of Zr co-doped Ce:(Gd, La)2Si2O7 grown by the Czochralski process. Radiation Measurements, 2016, 90, 162-165.	1.4	8
48	Growth and Luminescent Properties of Cs₂HfCl₆ Scintillators Doped With Alkaline Earth Metals. IEEE Transactions on Nuclear Science, 2018, 65, 2169-2173.	2.0	8
49	Growth and scintillation properties of Tl-doped CsI/CsCl/NaCl ternary eutectic scintillators. Japanese Journal of Applied Physics, 2021, 60, SBBK01.	1.5	8
50	Growth and scintillation properties of Ce doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e270" altimg="si3.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msup></mml:math>LiBr/LaBr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e278" altimg="si13.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:ms	1.6	8
51	Comprehensive Study on Ce-Doped (Gd, La)₂Si₂O₇ Scintillator. IEEE Transactions on Nuclear Science, 2018, 65, 2136-2139.	2.0	7
52	Growth and Scintillation Properties of a New Red-Emitting Scintillator Rbâ„Hflâ†' for the Fiber-Reading Radiation Monitor. IEEE Transactions on Nuclear Science, 2020, 67, 1055-1062.	2.0	7
53	Growth and Scintillation Properties of Directionally Solidified Ce:LaBr3/AEBr2 (AE = Mg, Ca, Sr, Ba) Eutectic System. Crystals, 2020, 10, 584.	2.2	7
54	Czochralski growth of 2 in. Ce-doped (La,Gd)2Si2O7 for scintillator application. Journal of Crystal Growth, 2016, 452, 57-64.	1.5	6

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55	Performance Evaluation of Liquinert-Processed CeBrâ‚ƒ Crystals Coupled With a Multipixel Photon Counter. IEEE Transactions on Nuclear Science, 2020, 67, 988-993.	2.0	6
56	First imaging demonstration of a crosshair light-sharing PET detector. Physics in Medicine and Biology, 2021, 66, 065013.	3.0	6
57	Growth and scintillation properties of Ce doped Gd2Si2O7/SiO2eutectics. Journal of Physics: Conference Series, 2015, 619, 012036.	0.4	5
58	Timing characteristics of the scintillation response of Gd3Al2Ga3O12:Ce and Gd3Al2.6Ga2.4O12:Ce single crystal scintillators. Radiation Measurements, 2016, 87, 24-28.	1.4	5
59	Basic performance of Mg co-doped new scintillator used for TOF-DOI-PET systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 842, 14-19.	1.6	5
60	Non-proportionality of GAGG:Ce scintillators down to 50 eV electron equivalent by application of alpha particle excitation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 898, 24-29.	1.6	5
61	Single-crystal growth, structure and luminescence properties of Cs2HfCl3Br3. Optical Materials, 2020, 106, 109942.	3.6	5
62	Bulk Single Crystal Growth of W Co-Doped Ce:Gdâ‚ƒGaâ‚ƒAlâ‚‚Oâ‚‚, by Czochralski Method. IEEE Transactions on Nuclear Science, 2020, 67, 1045-1048.	2.0	5
63	Large size growth of terbium doped BaCl2/NaCl/KCl eutectic for radiation imaging. Japanese Journal of Applied Physics, 0, , .	1.5	5
64	Development of Eu:SrI2 Scintillator Array for Gamma-Ray Imaging Applications. IEEE Transactions on Nuclear Science, 2017, 64, 1647-1651.	2.0	4
65	Light Yield and Timing Characteristics of Luâ‚€.â‚Gdâ‚‚.â‚‚(Al_{5â€“x}Gax)Oâ‚‚,:Ce,Mg Single Crystals. IEEE Transactions on Nuclear Science, 2020, 67, 2295-2299.	2.0	4
66	Scintillation characteristics and temperature quenching of radio- and photoluminescence of Mg2+-codoped (Lu,Gd)3Al2.4Ga2.6O12:Ce garnet crystals. Optical Materials, 2021, 121, 111595.	3.6	4
67	Crystal Growth and Scintillation Properties of Carbazole for Neutron Detection. IEEE Transactions on Nuclear Science, 2020, 67, 1027-1031.	2.0	4
68	Growth and scintillation properties of Tl-doped CsI/KI/KCl ternary eutectics. Journal of Crystal Growth, 2021, 573, 126287.	1.5	3
69	Gapless implementation of crosshair light-sharing PET detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1021, 165922.	1.6	3
70	Temperature Characteristics of Resonance Frequency for Double-Layered Thickness-Shear Resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 870-877.	3.0	3
71	Growth of Tb-doped BaCl2/NaCl/KCl ternary eutectic and its luminescence properties. Journal of Crystal Growth, 2022, 580, 126467.	1.5	3
72	Pulse-shape discrimination potential of new scintillator material: La-GPS:Ce. Journal of Instrumentation, 2019, 14, P06037-P06037.	1.2	2

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73	Luminescence and scintillation properties of Mo co-doped Y0.8Gd2.2(Al5-xGax)O12: Ce multicomponent garnet crystals. Optical Materials, 2021, 122, 111783.	3.6	2
74	Temperature Dependence on Scintillation Properties of La-GPS(Ce). , 2017, , .		1
75	Comparative Study of GdLu₂Al₂Ga₃O₁₂:Ce and GdY₂Al₂Ga₃O₁₂:Ce Scintillation Crystals for $gamma$ -Ray Detection. IEEE Transactions on Nuclear Science, 2018, 65, 2081-2084.	2.0	1
76	Temperature dependence of radio- and photoluminescence and scintillation properties of Y0.6Gd2.4Al2Ga3O12:Ce,Mg single crystal. Optical Materials, 2022, 131, 112662.	3.6	1
77	Investigation of the Relation of Decay Time Differences and $alpha-eta$ Ratios for Newly Developed Scintillators. IEEE Transactions on Nuclear Science, 2019, 66, 2324-2328.	2.0	0
78	Development of Gamma-Ray Detector Arrays Consisting of Diced Eu-Doped SrI2 Scintillator Arrays and TSV-MPPC Arrays. IEEE Transactions on Nuclear Science, 2020, 67, 999-1002.	2.0	0
79	Development of the Multi-Cubic Î³-ray spectrometer and its performance under intense 137Cs and 60Co radiation fields. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1010, 165544.	1.6	0
80	Growth of thallium-doped CsI/CsCl/KCl eutectics and their scintillation properties. Optical Materials: X, 2022, , 100159.	0.8	0