

# Kei Kamada

## List of Publications by Year in descending order

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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	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
2	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
3	Growth of $\text{Li}$ -enriched $\text{LiCl}/\text{BaCl}_2$ eutectic as a novel neutron scintillator. Japanese Journal of Applied Physics, 2022, 61, SC1038.	1.5	11
4	Growth of Tb-doped $\text{BaCl}_2/\text{NaCl}/\text{KCl}$ ternary eutectic and its luminescence properties. Journal of Crystal Growth, 2022, 580, 126467.	1.5	3
5	Growth and scintillation properties of Ce doped $\text{LiBr}/\text{LaBr}_3$ ternary eutectic. Journal of Crystal Growth, 2022, 580, 126467.	1.6	8
6	Growth of thallium-doped $\text{CsI}/\text{CsCl}/\text{KCl}$ eutectics and their scintillation properties. Optical Materials: X, 2022, , 100159.	0.8	0
7	Temperature dependence of radio- and photoluminescence and scintillation properties of $\text{Y}_0.6\text{Gd}_2.4\text{Al}_2\text{Ga}_3\text{O}_{12}:\text{Ce},\text{Mg}$ single crystal. Optical Materials, 2022, 131, 112662.	3.6	1
8	Development of large size crystal growth technology of oxide eutectic scintillator and a proto-type Talbot-Lau imaging system. Japanese Journal of Applied Physics, 2021, 60, SBBK04.	1.5	11
9	First imaging demonstration of a crosshair light-sharing PET detector. Physics in Medicine and Biology, 2021, 66, 065013.	3.0	6
10	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
11	Development of the Multi-Cubic $\text{I}^3$ -ray spectrometer and its performance under intense $^{137}\text{Cs}$ and $^{60}\text{Co}$ radiation fields. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1010, 165544.	1.6	0
12	The scintillation performance of one-inch diameter $\text{CsI}/\text{CsCl}/\text{NaCl}$ eutectics grown by the Czochralski method. Journal of Crystal Growth, 2021, 572, 126266.	1.5	14
13	Scintillation characteristics and temperature quenching of radio- and photoluminescence of $\text{Mg}^{2+}$ -codoped $(\text{Lu},\text{Gd})_3\text{Al}_2.4\text{Ga}_2.6\text{O}_{12}:\text{Ce}$ garnet crystals. Optical Materials, 2021, 121, 111595.	3.6	4
14	Growth and scintillation properties of Tl-doped $\text{CsI}/\text{KI}/\text{KCl}$ ternary eutectics. Journal of Crystal Growth, 2021, 573, 126287.	1.5	3
15	Growth and scintillation properties of Tl-doped $\text{CsI}/\text{CsCl}/\text{NaCl}$ ternary eutectic scintillators. Japanese Journal of Applied Physics, 2021, 60, SBBK01.	1.5	8
16	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
17	Luminescence and scintillation properties of Mo co-doped $\text{Y}_0.8\text{Gd}_2.2(\text{Al}_{5-x}\text{Ga}_x)\text{O}_{12}:\text{Ce}$ multicomponent garnet crystals. Optical Materials, 2021, 122, 111783.	3.6	2
18	Development of Single-Ended Readout DOI Detector With Quadrisectioned Crystals. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 563-569.	3.7	13

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19	Single-crystal growth, structure and luminescence properties of Cs <sub>2</sub> HfCl <sub>3</sub> Br <sub>3</sub> . Optical Materials, 2020, 106, 109942.	3.6	5
20	Luminescence and Scintillation Properties of Mg <sup>2+</sup> -Codoped Lu <sub>0.6</sub> Gd <sub>2.4</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce Single Crystal. IEEE Transactions on Nuclear Science, 2020, 67, 904-909.	2.0	9
21	Growth and Scintillation Properties of a New Red-Emitting Scintillator Rb <sub>2</sub> Hf <sub>2</sub> for the Fiber-Reading Radiation Monitor. IEEE Transactions on Nuclear Science, 2020, 67, 1055-1062.	2.0	7
22	Light Yield and Timing Characteristics of Lu <sub>0.8</sub> Gd <sub>2.2</sub> (Al <sub>5-x</sub> Ga <sub>x</sub> )O <sub>12</sub> :Ce, Mg Single Crystals. IEEE Transactions on Nuclear Science, 2020, 67, 2295-2299.	2.0	4
23	Growth and Scintillation Properties of Directionally Solidified Ce:LaBr <sub>3</sub> /AEBr <sub>2</sub> (AE = Mg, Ca, Sr, Ba) Eutectic System. Crystals, 2020, 10, 584.	2.2	7
24	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
25	Scintillation Characteristics of Mg <sup>2+</sup> -Codoped Y <sub>0.8</sub> Gd <sub>2.2</sub> (Al <sub>5-x</sub> Ga <sub>x</sub> )O <sub>12</sub> :Ce Single Crystals. IEEE Transactions on Nuclear Science, 2020, 67, 910-914.		11
26	Bulk Single Crystal Growth of W Co-Doped Ce:Gd <sub>2</sub> F <sub>2</sub> Al <sub>5</sub> O <sub>12</sub> , by Czochralski Method. IEEE Transactions on Nuclear Science, 2020, 67, 1045-1048.	2.0	5
27	Performance Evaluation of Liquinert-Processed CeBr <sub>3</sub> Crystals Coupled With a Multipixel Photon Counter. IEEE Transactions on Nuclear Science, 2020, 67, 988-993.	2.0	6
28	Development of Gamma-Ray Detector Arrays Consisting of Diced Eu-Doped SrI <sub>2</sub> Scintillator Arrays and TSV-MPPC Arrays. IEEE Transactions on Nuclear Science, 2020, 67, 999-1002.	2.0	0
29	Crystal Growth and Scintillation Properties of Carbazole for Neutron Detection. IEEE Transactions on Nuclear Science, 2020, 67, 1027-1031.	2.0	4
30	Pulse-shape discrimination potential of new scintillator material: La-GPS:Ce. Journal of Instrumentation, 2019, 14, P06037-P06037.	1.2	2
31	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
32	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
33	Development of a novel red-emitting cesium hafnium iodide scintillator. Radiation Measurements, 2019, 124, 54-58.	1.4	17
34	An ultrahigh spatial resolution radiation-imaging detector using 0.1 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
35	Luminescence and scintillation characteristics of (Gd <sub>x</sub> Y <sub>3-x</sub> )Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce (x=1,2,3) single crystals. Optical Materials, 2018, 76, 162-168.	3.6	21
36	Comparative Study of GdLu <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce and GdY <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce Scintillation Crystals for $\gamma$ -Ray Detection. IEEE Transactions on Nuclear Science, 2018, 65, 2081-2084.	2.0	1

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37	Growth and Luminescent Properties of Cs <sub>2</sub> HfCl <sub>6</sub> Scintillators Doped With Alkaline Earth Metals. IEEE Transactions on Nuclear Science, 2018, 65, 2169-2173.	2.0	8
38	Scintillation properties of Gd <sub>3</sub> (Al <sub>5-x</sub> Ga <sub>x</sub> )O <sub>12</sub> :Ce (x = 2.3, 2.6, 3.0) single crystals. Optical Materials, 2018, 81, 23-29.	3.6	17
39	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
40	Comprehensive Study on Ce-Doped (Gd, La) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> Scintillator. IEEE Transactions on Nuclear Science, 2018, 65, 2136-2139.	2.0	7
41	Optimization of Dopants and Scintillation Fibers™ Diameter of GdAlO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Eutectic for High-Resolution X-Ray Imaging. IEEE Transactions on Nuclear Science, 2018, 65, 2036-2040.	2.0	13
42	Growth and scintillation properties of Eu doped LiSr <sub>3</sub> /LiI eutectics. Optical Materials, 2017, 68, 70-74.	3.6	23
43	Cesium hafnium chloride scintillator coupled with an avalanche photodiode photodetector. Journal of Instrumentation, 2017, 12, C02042-C02042.	1.2	13
44	Development of Eu:SrI <sub>2</sub> Scintillator Array for Gamma-Ray Imaging Applications. IEEE Transactions on Nuclear Science, 2017, 64, 1647-1651.	2.0	4
45	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
46	Development of novel growth methods for halide single crystals. Optical Materials, 2017, 65, 46-51.	3.6	22
47	Temperature Dependence on Scintillation Properties of La-GPS(Ce). , 2017, , .		1
48	Growth and scintillation properties of 3 in. diameter Ce doped Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> scintillation single crystal. Journal of Crystal Growth, 2016, 452, 81-84.	1.5	37
49	Field test around Fukushima Daiichi nuclear power plant site using improved Ce:Gd <sub>3</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> scintillator Compton camera mounted on an unmanned helicopter. Journal of Nuclear Science and Technology, 2016, 53, 1907-1918.	1.3	38
50	Crystal growth and luminescence properties of Yb <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> infra-red emission scintillator. Optical Materials, 2016, 58, 14-17.	3.6	9
51	Large Size Czochralski Growth and Scintillation Properties of. IEEE Transactions on Nuclear Science, 2016, 63, 443-447.	2.0	49
52	Growth of 2 Inch Eu-doped SrI <sub>2</sub> single crystals for scintillator applications. Journal of Crystal Growth, 2016, 452, 73-80.	1.5	13
53	Growth of 1.5-In Eu : Single Crystal and Scintillation Properties. IEEE Transactions on Nuclear Science, 2016, 63, 467-470.	2.0	10
54	Czochralski growth of 2 in. Ce-doped (La,Gd) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> for scintillator application. Journal of Crystal Growth, 2016, 452, 57-64.	1.5	6

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55	Growth and luminescence properties of Eu-doped HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> eutectic scintillator. Journal of Rare Earths, 2016, 34, 796-801.	4.8	10
56	Probing shallow electron traps in cerium-doped Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> scintillators by UV-induced absorption spectroscopy. Applied Physics Express, 2016, 9, 072602.	2.4	24
57	Scintillation properties of Zr co-doped Ce:(Gd, La) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> grown by the Czochralski process. Radiation Measurements, 2016, 90, 162-165.	1.4	8
58	Timing characteristics of the scintillation response of Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce and Gd <sub>3</sub> Al <sub>2.6</sub> Ga <sub>2.4</sub> O <sub>12</sub> :Ce single crystal scintillators. Radiation Measurements, 2016, 87, 24-28.	1.4	5
59	Optical and scintillation properties of Ce <sup>3+</sup> -doped YGd <sub>2</sub> Al <sub>5-x</sub> Ga <sub>x</sub> O <sub>12</sub> (x = 2,3,4) single crystal scintillators. Journal of Luminescence, 2016, 169, 43-50.	3.1	31
60	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
61	LiF/CaF <sub>2</sub> /LiBaF <sub>3</sub> ternary fluoride eutectic scintillator. Japanese Journal of Applied Physics, 2015, 54, 04DH04.	1.5	21
62	Growth and scintillation properties of Ce doped Gd <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> /SiO <sub>2</sub> eutectics. Journal of Physics: Conference Series, 2015, 619, 012036.	0.4	5
63	Luminescence and scintillation properties of Ce doped SrHfO <sub>3</sub> based eutectics. Optical Materials, 2015, 41, 41-44.	3.6	14
64	Scintillation properties of Ce:(La,Gd) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> 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
65	Growth, Structural Considerations, and Characterization of Ce-Doped (La,Gd) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> Scintillating Crystals. Crystal Growth and Design, 2015, 15, 1642-1651.	3.0	31
66	Alkali earth co-doping effects on luminescence and scintillation properties of Ce doped Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> scintillator. Optical Materials, 2015, 41, 63-66.	3.6	114
67	Studies of light yield as a function of temperature and low temperature thermoluminescence of Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce scintillator crystals. Optical Materials, 2014, 36, 1665-1669.	3.6	65
68	Defect Engineering in Ce-Doped Aluminum Garnet Single Crystal Scintillators. Crystal Growth and Design, 2014, 14, 4827-4833.	3.0	197
69	Cz grown 2-in. size Ce:Gd <sub>3</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> single crystal; relationship between Al, Ga site occupancy and scintillation properties. Optical Materials, 2014, 36, 1942-1945.	3.6	151
70	Studies of low temperature thermoluminescence of GAGG:Ce and LuAG:Pr scintillator crystals using the T <sub>max</sub> ∝T <sub>stop</sub> method. Journal of Luminescence, 2014, 154, 452-457.	3.1	72
71	Orientation relationships of unidirectionally aligned GdAlO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> eutectic fibers. Journal of the European Ceramic Society, 2014, 34, 3849-3857.	5.7	36
72	Luminescence and scintillation mechanism in Ce <sup>3+</sup> and Pr <sup>3+</sup> doped (Lu,Y,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> single crystal scintillators. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 172-175.	0.8	37

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73	Luminescence and scintillation characteristics of Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> scintillators. <i>Optical Materials</i> , 2013, 36, 568-571.	3.6	24
74	Performance of cerium-doped Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> (GAGG:Ce) scintillator in gamma-ray spectrometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 712, 34-40.	1.6	117
75	A novel gamma-ray detector with submillimeter resolutions using a monolithic MPPC array with pixelized Ce:LYSO and Ce:GGAG crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 699, 235-241.	1.6	36
76	2inch diameter single crystal growth and scintillation properties of Ce:Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> . <i>Journal of Crystal Growth</i> , 2012, 352, 88-90.	1.5	272
77	Composition Engineering in Cerium-Doped (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> Single-Crystal Scintillators. <i>Crystal Growth and Design</i> , 2011, 11, 4484-4490.	3.0	461
78	Scintillator-oriented combinatorial search in Ce-doped (Y,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> multicomponent garnet compounds. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 505104.	2.8	195
79	Positron emission mammography using Pr:LuAG scintillator “ Fusion of optical material study and systems engineering. <i>Optical Materials</i> , 2010, 32, 1294-1297.	3.6	42
80	Large size growth of terbium doped BaCl <sub>2</sub> /NaCl/KCl eutectic for radiation imaging. <i>Japanese Journal of Applied Physics</i> , 0, , .	1.5	5