Shunsuke Kurosawa

List of Publications by Year
in descending order

128	1,748	361413	345221
papers	citations	20 h-index	36 g-index

128	128	128	948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defect Engineering in Ce-Doped Aluminum Garnet Single Crystal Scintillators. Crystal Growth and Design, 2014, 14, 4827-4833.	3.0	197
2	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
3	Alkali earth co-doping effects on luminescence and scintillation properties of Ce doped Gd3Al2Ga3O12 scintillator. Optical Materials, 2015, 41, 63-66.	3.6	114
4	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
5	OBSERVATION OF DIFFUSE COSMIC AND ATMOSPHERIC GAMMA RAYS AT BALLOON ALTITUDES WITH AN ELECTRON-TRACKING COMPTON CAMERA. Astrophysical Journal, 2011, 733, 13.	4.5	50
6	Large Size Czochralski Growth and Scintillation Properties of. IEEE Transactions on Nuclear Science, 2016, 63, 443-447.	2.0	49
7	Fast and High-Energy-Resolution Oxide Scintillator: Ce-Doped (La,Gd)$_{2}$Si$_{2}$O$_{7}$. Applied Physics Express, 2012, 5, 102601.	2.4	45
8	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
9	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
10	Luminescence Characteristics of the Ce³⁺-Doped Pyrosilicates: The Case of La-Admixed Gd₂Si₂O₇ Single Crystals. Journal of Physical Chemistry C, 2014, 118, 26521-26529.	3.1	33
11	Crystal growth and scintillation properties of multi-component oxide single crystals: Ce:GGAG and Ce:La-GPS. Journal of Luminescence, 2016, 169, 387-393.	3.1	33
12	Establishment of Imaging Spectroscopy of Nuclear Gamma-Rays based on Geometrical Optics. Scientific Reports, 2017, 7, 41511.	3.3	33
13	Growth, Structural Considerations, and Characterization of Ce-Doped (La,Gd)₂Si₂O₇ Scintillating Crystals. Crystal Growth and Design, 2015, 15, 1642-1651.	3.0	31
14	Performance of Ce-doped (La, Gd)2Si2O7 scintillator with an avalanche photodiode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 744, 30-34.	1.6	29
15	Crystal growth of Eu:SrI2 single crystals by micro-pulling-down method and the scintillation properties. Journal of Crystal Growth, 2013, 375, 49-52.	1.5	28
16	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
17	Growth and scintillation properties of Eu doped LiSrI3/LiI eutectics. Optical Materials, 2017, 68, 70-74.	3.6	23
18	Development of novel growth methods for halide single crystals. Optical Materials, 2017, 65, 46-51.	3.6	22

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19	LiF/CaF₂/LiBaF₃ ternary fluoride eutectic scintillator. Japanese Journal of Applied Physics, 2015, 54, 04DH04.	1.5	21
20	Growth of column-shaped and plate-like langasite-type piezoelectric single crystals and their physical properties. Sensors and Actuators A: Physical, 2013, 200, 56-59.	4.1	20
21	Crystal Growth of Ca3Nb(Ga1â^'xAlx)3Si2O14 Piezoelectric Single Crystals with Various Al Concentrations. Materials, 2015, 8, 5597-5605.	2.9	20
22	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
23	Development of a novel red-emitting cesium hafnium iodide scintillator. Radiation Measurements, 2019, 124, 54-58.	1.4	17
24	Growth and luminescent properties of Ce and Eu doped Cesium Hafnium Iodide single crystalline scintillators. Journal of Crystal Growth, 2018, 492, 1-5.	1.5	16
25	First Observation of the MeV Gamma-Ray Universe with Bijective Imaging Spectroscopy Using the Electron-tracking Compton Telescope on Board SMILE-2+. Astrophysical Journal, 2022, 930, 6.	4.5	16
26	Performance of 8$,imes,$8 Pixel LaBr$_{3}$:Ce and Gd$_{2}$SiO$_{5}$:Ce Scintillator Arrays Coupled to a 64-Channel Multi-Anode PMT. IEEE Transactions on Nuclear Science, 2009, 56, 3779-3788.	2.0	15
27	Single crystal growth of Ce:Gd3(Ga,Al)5O12 with various Mg concentration and their scintillation properties. Journal of Crystal Growth, 2017, 468, 407-410.	1.5	15
28	Crystal Growth and Scintillation Properties of Fluoride Scintillators. IEEE Transactions on Nuclear Science, 2012, 59, 2173-2176.	2.0	14
29	Optical properties and radiation response of Ce:SrHfO3 prepared by the Spark Plasma Sintering Method. Radiation Measurements, 2013, 56, 155-158.	1.4	14
30	Optical properties of a Nd-doped SrBr2 crystal grown by the Bridgman technique. Journal of Crystal Growth, 2014, 393, 163-166.	1.5	14
31	Luminescence and scintillation properties of Ce dope SrHfO3 based eutectics. Optical Materials, 2015, 41, 41-44.	3.6	14
32	Crystal growth and luminescence properties of organic crystal scintillators for Î±-rays detection. Optical Materials, 2019, 94, 58-63.	3.6	14
33	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
34	Temperature dependence of the scintillation properties of Ce:GSO and Ce:GSOZ. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 690, 53-57.	1.6	13
35	Growth of 2 Inch Eu-doped SrI2 single crystals for scintillator applications. Journal of Crystal Growth, 2016, 452, 73-80.	1.5	13
36	Cesium hafnium chloride scintillator coupled with an avalanche photodiode photodetector. Journal of Instrumentation, 2017, 12, C02042-C02042.	1.2	13

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37	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
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	Crystal Growth and Luminescence Properties of Yb-doped Gd3Al2Ga3O12 Infra-red Scintillator. Optical Materials, 2014, 36, 1484-1487.	3.6	12
40	Modified vertical Bridgman method: Time and cost effective tool for preparation of Cs2HfCl6 single crystals. Journal of Crystal Growth, 2020, 533, 125479.	1.5	12
41	Multiple shaped-crystal growth of oxide scintillators using Mo crucible and die by the edge defined film fed growth method. Journal of Crystal Growth, 2020, 535, 125510.	1.5	11
42	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.	1.8	11
43	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
44	The effect of different oxidative growth conditions on the scintillation properties of Ce:Gd₃Al₃Ga₂O₁₂ crystal. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2251-2254.	0.8	10
45	Luminescence properties of the Mg coâ€“doped Ce:SrHfO3 ceramics prepared by the Spark Plasma Sintering Method. Radiation Measurements, 2016, 90, 287-291.	1.4	10
46	Growth of 1.5-In Eu : Single Crystal and Scintillation Properties. IEEE Transactions on Nuclear Science, 2016, 63, 467-470.	2.0	10
47	Growth and luminescence properties of Eu-doped HfO2/Î±-Al2O3 eutectic scintillator. Journal of Rare Earths, 2016, 34, 796-801.	4.8	10
48	Study on the use of electron-tracking Compton gamma-ray camera to monitor the therapeutic proton dose distribution in real time. , 2009, , .		9
49	Scintillation Properties of ${m Nd}^{3+}$-Doped ${m Lu}_{2}{{m O}_3}$ Ceramics in the Visible and Infrared Regions. IEEE Transactions on Nuclear Science, 2014, 61, 316-319.	2.0	9
50	Crystal growth and luminescence properties of Yb2Si2O7 infra-red emission scintillator. Optical Materials, 2016, 58, 14-17.	3.6	9
51	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
52	Observation of diffuse gamma-ray with Electron-Tracking Compton imaging camera loaded on balloon. , 2007, , .		8
53	Control of mean ionic radius at Ca site by Sr co-doping for Ce doped LiCaAlF6 single crystals and the effects on optical and scintillation properties. Optical Materials, 2014, 36, 1950-1953.	3.6	8
54	Scintillation properties of Zr co-doped Ce:(Gd, La)2Si2O7 grown by the Czochralski process. Radiation Measurements, 2016, 90, 162-165.	1.4	8

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55	Luminescent properties of Cr-doped gallium garnet crystals grown by the micro-pulling-down method. Journal of Crystal Growth, 2016, 452, 95-100.	1.5	8
56	Development of a real-time dose monitor with Cr-doped Gd3Ga5O12 infrared scintillator. Radiation Measurements, 2017, 106, 187-191.	1.4	8
57	Growth and Luminescent Properties of Cs₂HfCl₆ Scintillators Doped With Alkaline Earth Metals. IEEE Transactions on Nuclear Science, 2018, 65, 2169-2173.	2.0	8
58	Growth and scintillation properties of Tl-doped CsI/CsCl/NaCl ternary eutectic scintillators. Japanese Journal of Applied Physics, 2021, 60, SBBK01.	1.5	8
59	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:msub>	1.6	8
60	Development of a gamma camera based on an 8×8 array of LaBr<inf>3</inf>(Ce) scintillator pixels coupled to a 64-channel multi-anode PMT. , 2007, , .		7
61	Euâ€concentration dependence of optical and scintillation properties for Euâ€doped SrF₂ single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2275-2278.	0.8	7
62	Radiation imaging with a new scintillator and a CMOS camera. Journal of Instrumentation, 2014, 9, C07015-C07015.	1.2	7
63	Crystal growth and optical properties of Ce:(La,Gd)2Ge2O7 grown by the floating zone method. Journal of Crystal Growth, 2014, 393, 142-144.	1.5	7
64	Luminescence properties of Pr-doped (La,Gd)₂Si₂O₇grown by the floating zone method. Japanese Journal of Applied Physics, 2015, 54, 052401.	1.5	7
65	Comprehensive Study on Ce-Doped (Gd, La)₂Si₂O₇ Scintillator. IEEE Transactions on Nuclear Science, 2018, 65, 2136-2139.	2.0	7
66	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
67	Growth and Scintillation Properties of Directionally Solidified Ce:LaBr3/AEBr2 (AE = Mg, Ca, Sr, Ba) Eutectic System. Crystals, 2020, 10, 584.	2.2	7
68	Balloon-Borne Sub-MeV Gamma-ray Imager Using Electron Tracking Gaseous TPC and Scintillation Camera. , 2006, , .		6
69	Diagnostic approach of using an electron tracking compton gamma-ray camera based on small animal and phantom experiments. , 2007, , .		6
70	Simultaneous imaging of multi nuclides using the Electron Tracking Compton gamma-ray camera based on small animal and phantom experiments. , 2008, , .		6
71	Optical and scintillation properties of Dy³⁺:Y₃Al₅O₁₂ and undoped Y₃Al₅O₁₂ crystals grown in reduction atmosphere. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2255-2258.	0.8	6
72	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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73	Temperature dependence of Ce-doped (Gd 0.6 La 0.4) 2 Si 2 O 7 scintillators. Optical Materials, 2017, 65, 56-59.	3.6	6
74	Growth of LiF/LiBaF3 eutectic scintillator crystals and their optical properties. Journal of Materials Science, 2017, 52, 5531-5536.	3.7	6
75	Luminescent properties of Cr-doped (Gd , Y1â^')3Al5O12 infra-red scintillator crystals. Optical Materials, 2014, 36, 1938-1941.	3.6	5
76	Growth and scintillation properties of Ce doped Gd2Si2O7/SiO2eutectics. Journal of Physics: Conference Series, 2015, 619, 012036.	0.4	5
77	Comparison of luminescence, energy resolution and light loss coefficient of Gd 1.53 La 0.47 Si 2 O 7 :Ce and Lu 1.9 Y 0.1 SiO 5 :Ce scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 129-134.	1.6	5
78	Crystal structure of Ce-doped (La,Gd)2Si2O7 grown by the Czochralski process. Journal of Alloys and Compounds, 2018, 748, 404-410.	5.5	5
79	Single-crystal growth, structure and luminescence properties of Cs2HfCl3Br3. Optical Materials, 2020, 106, 109942.	3.6	5
80	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
81	The Observation of Diffuse Cosmic and Atmospheric Gamma Rays with an Electron-Tracking Compton Camera Loaded on a Balloon. Journal of the Physical Society of Japan, 2009, 78, 161-164.	1.6	5
82	Large size growth of terbium doped BaCl2/NaCl/KCl eutectic for radiation imaging. Japanese Journal of Applied Physics, 0, , .	1.5	5
83	An Electron-Tracking Compton imaging camera based on a gaseous TPC and a scintillation camera. , 2007, , .		4
84	Crystal growth and scintillation properties of Lu substituted CeBr3 single crystals. Journal of Crystal Growth, 2016, 452, 65-68.	1.5	4
85	Effects of Na and K co-doping on growth and scintillation properties of Eu:SrI2 crystals. Radiation Measurements, 2016, 90, 157-161.	1.4	4
86	Development of Eu:SrI2 Scintillator Array for Gamma-Ray Imaging Applications. IEEE Transactions on Nuclear Science, 2017, 64, 1647-1651.	2.0	4
87	Al-doping effects on mechanical, optical and scintillation properties of Ce:(La,Gd)2Si2O7 single crystals. Optical Materials, 2019, 87, 11-15.	3.6	4
88	Crystal growth and optical properties of a Ce2Si2O7 single crystal. Optical Materials, 2020, 109, 110210.	3.6	4
89	Light Yield and Timing Characteristics of Luâ‚€.â‚ˆGdâ‚‚.â‚‚(Al_{5â€“x}Gax)Oâ‚‚,:Ce,Mg Single Crystals. IEEE Transactions on Nuclear Science, 2020, 67, 2295-2299.	2.0	4
90	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

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91	Cs2HfCl6 doped with Zr: Influence of tetravalent substitution on scintillation properties. Journal of Crystal Growth, 2021, 573, 126307.	1.5	4
92	Crystal Growth and Scintillation Properties of Carbazole for Neutron Detection. IEEE Transactions on Nuclear Science, 2020, 67, 1027-1031.	2.0	4
93	Performance of a neutron imaging detector based on the μPIC micro-pixel gaseous chamber. , 2010, , .		3
94	Scintillation properties of a La, Lu-admix gadolinium pyrosilicate crystal. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 115-118.	1.6	3
95	Control of the solid-liquid interface during growth of a Ce-doped Gd 2 Si 2 O 7 crystal by the traveling solvent floating zone method. Journal of Crystal Growth, 2017, 468, 465-468.	1.5	3
96	Phase diagram of BaI2-LuI3 system and growth of BaI2/LuI3 eutectic scintillator. Journal of Crystal Growth, 2020, 536, 125573.	1.5	3
97	Growth and scintillation properties of Tl-doped CsI/KI/KCl ternary eutectics. Journal of Crystal Growth, 2021, 573, 126287.	1.5	3
98	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
99	Growth of Tb-doped BaCl2/NaCl/KCl ternary eutectic and its luminescence properties. Journal of Crystal Growth, 2022, 580, 126467.	1.5	3
100	Luminescence study on Eu or Tb doped lanthanumâ€“gadolinium pyrosilicate crystal. Optical Materials, 2015, 41, 80-83.	3.6	2
101	The divalent ion codoping effect on Ce-doped (Gd, La)2Si2O7 single crystals. Optical Materials, 2017, 68, 42-46.	3.6	2
102	Crystal growth and optical properties of Gd admixed Ce-doepd Lu2Si2O7 single crystals. Journal of Crystal Growth, 2017, 468, 391-394.	1.5	2
103	Pulse-shape discrimination potential of new scintillator material: La-GPS:Ce. Journal of Instrumentation, 2019, 14, P06037-P06037.	1.2	2
104	Measurement of the Anisotropic Response of the ZnWO4 Crystal for Developing the Direction-Sensitive Dark Matter Detector. IEEE Transactions on Nuclear Science, 2020, 67, 894-897.	2.0	2
105	Composite Scintillators Based on the Films and Crystals of (Lu,Gd,La)2Si2O7 Pyrosilicates. IEEE Transactions on Nuclear Science, 2020, 67, 994-998.	2.0	2
106	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
107	Development of Electron tracking Compton Camera based on micro pixel gas detector and its application for medical imaging. , 2008, , .		1
108	Compton imaging Camera using an Electron-Tracking gaseous TPC and a scintillation camera. , 2008, , .		1

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109	Low-power wide-dynamic-range readout system for a 64-channel multi-anode PMT of a scintillation gamma camera. , 2008, , .		1
110	Development of a neutron imaging detector based on the μPIC micro-pixel gaseous chamber. , 2009, , .		1
111	Development of a single crystal with a high index of refraction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 599-602.	1.6	1
112	Temperature Dependence of Luminescence Properties for Zr Codoped Ce:(Gd,â€…La)2Si2O7 Scintillator. , 2016, , .		1
113	Scintillation properties of Y-Admixed Gd2Si2O7 scintillator. Radiation Measurements, 2019, 126, 106123.	1.4	1
114	Crystal growth and optical properties of Ce-doped (La,Y)2Si2O7 single crystal. Journal of Crystal Growth, 2021, 572, 126252.	1.5	1
115	Radiation Hardness of Ce:(Gd,â€…La)2Si2O7 Scintillator Using 80-MeV Alpha Rays. , 2016, , .		1
116	Novel Method of Search for Transparent Optical Materials with Extremely High Melting Point. Crystal Growth and Design, 2021, 21, 572-578.	3.0	1
117	Growth of Zn3Ta2O8 crystal scintillator by a novel melt growth technique named shielded arc melting method. Optical Materials: X, 2022, 14, 100149.	0.8	1
118	Imaging reagents study for nuclear medicine using an electron-tracking Compton gamma-ray camera. , 2009, , .		0
119	Imaging study of a phantom and small animal with a two-head electron-tracking Compton gamma-ray camera. , 2010, , .		0
120	Neutron imaging detector based on the µPIC micro-pixel gaseous chamber. , 2011, , .		0
121	Simulation study for the higher sensitivity of an Electron-Tracking Compton Camera at over 1 MeV. , 2011, , .		0
122	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
123	DETECTOR PERFORMANCE OF THE NEWAGE EXPERIMENT. , 2007, , .		0
124	Development of a Time-resolved Neutron Imaging Detector Based on the Î¼PIC Micro-Pixel Chamber. Hamon, 2013, 23, 218-222.	0.0	0
125	Rare-earth Activated Pyrosilicate-type Powder Scintillator. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2016, 24, 170-173.	0.0	0
126	Development of Red Emitting Powder Ceramic Phosphors with Good Temperature Dependence. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2018, 26, 187-190.	0.0	0

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127	Crystal growth and luminescence properties of phenanthrene for neutron detection. Journal of Crystal Growth, 2022, 581, 126494.	1.5	0
128	Growth of thallium-doped CsI/CsCl/KCl eutectics and their scintillation properties. Optical Materials: X, 2022, , 100159.	0.8	0