

Tomasz Szczesniak

List of Publications by Year in descending order

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154
papers

2,708
citations

185998

28
h-index

223531

46
g-index

154
all docs

154
docs citations

154
times ranked

1796
citing authors

#	ARTICLE	IF	CITATIONS
1	The light response of CsI:Tl crystal after interaction with gamma radiation study using analysis of single scintillation pulses and digital oscilloscope readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1031, 166600.	0.7	5
2	Optical and scintillation properties of LuGd ₂ Al ₂ Ga ₃ O ₁₂ :Ce, Lu ₂ GdAl ₂ Ga ₃ O ₁₂ :Ce, and Lu ₂ YAl ₂ Ga ₃ O ₁₂ :Ce single crystals: A comparative study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1004, 165381.	0.7	6
3	Comparison of detectors with pulse shape discrimination capability for simultaneous detection of gamma-rays, slow and fast neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1019, 165858.	0.7	12
4	Conceptual design report of the MPD Cosmic Ray Detector (MCORD). Journal of Instrumentation, 2021, 16, P11035.	0.5	1
5	Cerium-doped gadolinium fine aluminum gallate in scintillation spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164464.	0.7	3
6	Scintillation characteristics of YAlO ₃ :Pr perovskite single crystals. Optical Materials, 2020, 108, 110161.	1.7	5
7	Neutron hardness of EJ-276 scintillation material. Journal of Instrumentation, 2020, 15, P10012-P10012.	0.5	5
8	SiPM proton irradiation for application in cosmic space. Journal of Instrumentation, 2020, 15, P03002-P03002.	0.5	8
9	Fast neutron and gamma ray pulse shape discrimination in EJ-276 and EJ-276G plastic scintillators. Journal of Instrumentation, 2020, 15, P03030-P03030.	0.5	34
10	Luminescence and Scintillation Properties of Mg ²⁺ -Codoped Lu _{0.6} Gd _{2.4} Al ₂ Ga ₃ O ₁₂ :Ce Single Crystal. IEEE Transactions on Nuclear Science, 2020, 67, 904-909.	1.2	9
11	The light response of CsI: Tl scintillators with Tl concentrations of 0.05wt% to 0.13wt% for a temperature range of 303 K to 203 K. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 914, 165-172.	0.7	1
12	MCORD - MPD Cosmic Ray Detector a new features. EPJ Web of Conferences, 2019, 204, 07016.	0.1	4
13	Scintillation properties of Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce, Li and Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce, Mg single crystal scintillators: A comparative study. Optical Materials, 2019, 92, 181-186.	1.7	20
14	Scintillation response to gamma-rays measured at wide temperature range for Tl doped CsI with SiPM readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 916, 32-36.	0.7	5
15	Silicon photomultipliers in gamma spectroscopy with scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 1026, 162-168.	0.7	21
16	Study of n discrimination by zero-crossing method with SiPM based scintillation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 8	0.7	17
17	Luminescence and scintillation characteristics of (Gd _x Y _{3-x})Al ₂ Ga ₃ O ₁₂ :Ce (x=1,2,3) single crystals. Optical Materials, 2018, 76, 162-168.	1.7	21
18	Comparative Study of GdLu ₂ Al ₂ Ga ₃ O ₁₂ :Ce and GdY ₂ Al ₂ Ga ₃ O ₁₂ :Ce Scintillation Crystals for γ -Ray Detection. IEEE Transactions on Nuclear Science, 2018, 65, 2081-2084.	1.2	1

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19	Scintillation properties of Gd ₃ (Al _{5-x} Ga _x)O ₁₂ :Ce (x = 2.3, 2.6, 3.0) single crystals. Optical Materials, 2018, 81, 23-29.	1.7	17
20	Study of MPPC damage induced by neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 906, 30-36.	0.7	1
21	MCORD: MPD cosmic ray detector for NICA. , 2018, , .		2
22	Comparison of SensL and Hamamatsu 4Å—4 channel SiPM arrays in gamma spectrometry with scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 856, 53-64.	0.7	27
23	Silicon photomultipliers in scintillation detectors used for gamma ray energies up to 6.1 MeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 874, 137-148.	0.7	10

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37	Timing characteristics of the scintillation response of Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce and Gd ₃ Al _{2.6} Ga _{2.4} O ₁₂ :Ce single crystal scintillators. <i>Radiation Measurements</i> , 2016, 87, 24-28.	0.7	5
38	Energy resolution of scintillation detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 805, 25-35.	0.7	64
39	Silicon photomultipliers in scintillation detectors used for gamma-ray energies up to 6.1 MeV. , 2015, , .		0
40	Photomultipliers with the screening grid at the anode for TOF PET block detectors. , 2015, , .		1
41	New method for evaluating effective recovery time and single photoelectron response in silicon photomultipliers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 783, 58-64.	0.7	14
42	The time-of-flight method for characterizing the neutron response of liquid organic scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 781, 44-49.	0.7	17
43	Characterization of GAGG:Ce scintillators with various Al-to-Ga ratio. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 772, 112-117.	0.7	66
44	Coincidence resolution time of two small scintillators coupled to high quantum-efficiency photomultipliers in a PET-like system. <i>EPJ Web of Conferences</i> , 2014, 66, 10010.	0.1	3
45	microPMT – A New Photodetector for Gamma Spectrometry and Fast Timing?. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 2687-2693.	1.2	6
46	Measuring the scintillation decay time for different energy depositions in NaI:Tl, LSO:Ce and CeBr ₃ scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 749, 68-73.	0.7	26
47	Comparative studies of Lu _{1.95} Y _{0.05} SiO ₅ :Ce and Lu _{0.7} Y _{0.3} AlO ₃ :Ce single crystal scintillators for gamma-ray detection. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 326, 103-105.	0.6	2
48	Digital neutron-gamma discrimination methods: Charge comparison versus zero-crossing. , 2014, , .		2
49	Performance of FBK high-density SiPMs in scintillation spectrometry. <i>Journal of Instrumentation</i> , 2014, 9, P08004-P08004.	0.5	17
50	Study of n- ¹³ discrimination by zero-crossing method with SiPM based scintillation detectors. , 2014, , .		4
51	Temperature properties of scintillators for PET detectors: A comparative study. , 2014, , .		4
52	Comparative study of large samples (2" Å– 2") plastic scintillators and EJ309 liquid with pulse shape discrimination (PSD) capabilities. <i>Journal of Instrumentation</i> , 2014, 9, P06014-P06014.	0.5	22
53	Characterization of TSV MPPC arrays (4Å–4 ch and 8Å–8 ch) in scintillation spectrometry. , 2014, , .		1
54	Energy resolution of small scintillation detectors with SiPM light readout. <i>Journal of Instrumentation</i> , 2013, 8, P02017-P02017.	0.5	34

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55	CaF ₂ (Eu): an "old" scintillator revisited. Journal of Instrumentation, 2013, 8, P06010-P06010.	0.5	14
56	Characteristics of scintillation detectors based on inorganic scintillators and SiPM light readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 91-93.	0.7	12
57	Characterization of CsI:Tl at a wide temperature range ($\sim 40^{\circ}\text{C}$ to $+22^{\circ}\text{C}$). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 707, 73-79.	0.7	15
58	Comparison of absorption, luminescence and scintillation characteristics in Lu _{1.95} Y _{0.05} SiO ₅ :Ce,Ca and Y ₂ SiO ₅ :Ce scintillators. Optical Materials, 2013, 35, 1679-1684.	1.7	48
59	Response of doped alkali iodides measured with gamma-ray absorption and Compton electrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 705, 42-46.	0.7	16
60	Performance of cerium-doped Gd ₃ Al ₂ Ga ₃ O ₁₂ (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.	0.7	117
61	MPPC Arrays in PET Detectors With LSO and BGO Scintillators. IEEE Transactions on Nuclear Science, 2013, 60, 1533-1540.	1.2	20
62	Performance of FBK high-density SiPMs in scintillation spectrometry. , 2013, , .		0
63	microPMT - a new photodetector for gamma spectrometry and fast timing?. , 2013, , .		0
64	Characterization of 2 \times 2 ch MPPC array over a wide temperature range ($\sim 20^{\circ}\text{C}$ to $+21^{\circ}\text{C}$). Journal of Instrumentation, 2013, 8, P07007-P07007.	0.5	7
65	Influence of lutetium content on the scintillation properties in (Lu x Y _{1-x})AlO ₃ :Ce single crystals. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1903-1908.	0.8	10
66	Characterization of 4 \times 4ch MPPC array in scintillation spectrometry. Journal of Instrumentation, 2013, 8, P09020-P09020.	0.5	15
67	Time jitter of silicon photomultipliers. , 2012, , .		0
68	Characterization of \times 2ch MPPC array at a wide temperature range (\times 20) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		
69	Properties of CdWO ₄ and ZnWO ₄ scintillators at liquid nitrogen temperature. Journal of Instrumentation, 2012, 7, P03011-P03011.	0.5	23
70	Electron response of some low-Z scintillators in wide energy range. Journal of Instrumentation, 2012, 7, P06011-P06011.	0.5	25
71	Characterization of \times 4ch MPPC array in scintillation spectrometry. , 2012, , .		2
72	Investigation of the Properties of $\{ \text{hbox } \{3\} \}^{\{ \text{primeprime} \}} \text{imes } \{ \text{hbox } \{3\} \}^{\{ \text{primeprime} \}} \{ \text{primeprime} \}$ Different Scintillation Detectors for Neutron Activation Analysis Techniques. IEEE Transactions on Nuclear Science, 2012, 59, 230-235.	1.2	2

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73	MPPC Array in the Readout of CsI:Tl, LSO:Ce:Ca, LaBr ₃ :Ce, and BGO Scintillators. IEEE Transactions on Nuclear Science, 2012, 59, 3294-3303.	1.2	31
74	Non-Proportionality of Electron Response and Energy Resolution of Compton Electrons in Scintillators. IEEE Transactions on Nuclear Science, 2012, 59, 222-229.	1.2	123
75	Study of NaI(Tl) scintillator cooled down to liquid nitrogen temperature. Journal of Instrumentation, 2012, 7, P11006-P11006.	0.5	15
76	Energy dependence of scintillation decay time measured with gamma-rays and compton electrons. , 2012, , .		0
77	Neutron/gamma discrimination properties of composite scintillation detectors. Journal of Instrumentation, 2011, 6, P07007-P07007.	0.5	35
78	MPPC arrays in PET detectors with LSO and BGO scintillators. , 2011, , .		2
79	Properties of NaI(Tl) scintillator at liquid nitrogen temperature. , 2011, , .		2
80	Characterization of LFS-3 scintillator in comparison with LSO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 226-230.	0.7	20
81	Suppression of gamma-ray sensitivity of liquid scintillators for neutron detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 330-333.	0.7	16
82	Gamma-ray and electron response in doped alkali halide scintillators. , 2011, , .		0
83	2×2 MPPC arrays in gamma spectrometry with CsI(Tl), LSO:Ce(Ca), LaBr<inf>3</inf>, BGO. , 2011, , .		3
84	Effective dead time of APD cells of SiPM. , 2011, , .		12
85	Lu_{1.8}Y_{0.2}SiO₅:Ce and LaCl₃:Ce Scintillators for Gamma-Ray Detection. Advanced Materials Research, 2011, 284-286, 2064-2069.	0.3	1
86	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2011, 4, 59.	0.0	6
87	New Organic Scintillators for Neutron Detection. , 2010, , .		1
88	Characterization of Scintillators by Modern Photomultipliers—A New Source of Errors. IEEE Transactions on Nuclear Science, 2010, 57, 2886-2896.	1.2	46
89	Energy resolution of CsI(Na) scintillators. Radiation Measurements, 2010, 45, 377-379.	0.7	22
90	Measurement of Compton edge position in low-Z scintillators. Radiation Measurements, 2010, 45, 605-607.	0.7	53

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91	Time Resolution of Fast Photomultipliers for Time of Flight PET. , 2010, , .		0
92	Timing Resolution and Decay Time of LSO Crystals Co-Doped With Calcium. IEEE Transactions on Nuclear Science, 2010, 57, 1329-1334.	1.2	23
93	Linearity and energy resolution of Compton electrons in CZT measured using the wide angle Compton coincidence technique. , 2010, , .		0
94	Energy Resolution of Compton Electrons in LaBr_3 :Ce Scintillator. IEEE Transactions on Nuclear Science, 2010, 57, 1697-1701.	1.2	55
95	Light Pulse Shapes in Liquid Scintillators Originating From Gamma-Rays and Neutrons. IEEE Transactions on Nuclear Science, 2010, 57, 3846-3852.	1.2	27
96	Comparison of Neutron Detection Efficiency of a He-3 Counter and a Boron-10 Loaded Liquid Scintillator. IEEE Transactions on Nuclear Science, 2010, 57, 2857-2861.	1.2	6
97	Further study of undoped NaI scintillators with different purity. , 2010, , .		6
98	CaF_2 (Eu): An Old scintillator revisited. , 2010, , .		0
99	Energy resolution of scintillation detectors with SiPM light readout. , 2010, , .		18
100	Time resolution of scintillation detectors based on SiPM in comparison to photomultipliers. , 2010, , .		11
101	Further Study of Boron-10 Loaded Liquid Scintillators for Detection of Fast and Thermal Neutrons. IEEE Transactions on Nuclear Science, 2010, 57, 375-380.	1.2	29
102	A Time Resolution Study of a Continuous Crystal Detector for TOF PET. IEEE Transactions on Nuclear Science, 2010, 57, 40-47.	1.2	1
103	The comparison of large scintillators for high energy gamma-rays detection. , 2010, , .		0
104	Multi Pixel Photon Counters (MPPC) as an Alternative to APD in PET Applications. IEEE Transactions on Nuclear Science, 2010, 57, 1008-1014.	1.2	35
105	Non-proportionality of electron response and energy resolution of Compton electrons in scintillators. , 2010, , .		3
106	Energy Resolution of Calcium Co-Doped LSO:Ce Scintillators. IEEE Transactions on Nuclear Science, 2009, 56, 2972-2978.	1.2	21
107	Demonstration of a Dual-Range Photon Detector With SDD and LaBr_3 Tj ETQq1 1 0.784314 rBT /Overlock 10 Tf	1.2	10
108	Composite scintillators as detectors for fast neutrons and gamma-radiation detection in the border monitoring. , 2009, , .		5

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109	Performance of CsI(Na) scintillators in \hat{I}^3 -Ray spectrometry. , 2009, , .		3
110	Light pulse shapes in liquid scintillators originating from gamma-rays and neutrons. , 2009, , .		0
111	Properties of CdWO ₄ and ZnWO ₄ at liquid nitrogen temperature. , 2009, , .		0
112	Comparative studies of Lu ₃ Al ₅ O ₁₂ :Ce and Y ₃ Al ₅ O ₁₂ :Ce scintillators for gamma-ray detection. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2599-2605.	0.8	43
113	A technique for measuring the energy resolution of low-Z scintillators. , 2009, , .		18
114	Scintillation Properties of LuAG:Ce, YAG:Ce and LYSO:Ce Crystals for Gamma-Ray Detection. IEEE Transactions on Nuclear Science, 2009, 56, 3800-3805.	1.2	227
115	Comparison of neutron detection efficiency using a He-3 counter and a Boron-10 loaded liquid scintillator EJ309B5. , 2009, , .		3
116	Light yield non-proportionality of undoped YAP scintillator. Journal of Instrumentation, 2009, 4, P05006-P05006.	0.5	11
117	Fast Photomultipliers for TOF PET. IEEE Transactions on Nuclear Science, 2009, 56, 173-181.	1.2	61
118	A Comparative Study of Fast Photomultipliers for Timing Experiments and TOF PET. IEEE Transactions on Nuclear Science, 2009, 56, 1017-1023.	1.2	11
119	Characterization of scintillators by modern photomultipliers — A new source of errors. , 2009, , .		3
120	A Comparative Study of Silicon Drift Detectors With Photomultipliers, Avalanche Photodiodes and PIN Photodiodes in Gamma Spectrometry With LaBr ₃ Crystals. IEEE Transactions on Nuclear Science, 2009, 56, 1006-1011.	1.2	24
121	A Comparative Study of Undoped NaI Scintillators With Different Purity. IEEE Transactions on Nuclear Science, 2009, 56, 1655-1660.	1.2	28
122	Scintillation Properties of Praseodymium Doped LuAG Scintillator Compared to Cerium Doped LuAG, LSO and LaBr_3 . IEEE Transactions on Nuclear Science, 2009, 56, 2499-2505.	1.2	54
123	Light Yield Non-Proportionality and Energy Resolution of Praseodymium Doped LuAG Scintillator. IEEE Transactions on Nuclear Science, 2009, 56, 934-938.	1.2	49
124	Energy resolution of Compton electrons in scintillators. , 2009, , .		0
125	Radiation results of the SEE test of Xilinx XC3S400 FPGA instances. , 2009, , .		0
126	Energy Resolution of Scintillation Detectors – New Observations. IEEE Transactions on Nuclear Science, 2008, 55, 1062-1068.	1.2	53

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127	Silicon photomultiplier as an alternative for APD in PET/MRI applications. , 2008, , .		13
128	A Comparative Study of Undoped NaI Scintillators with Different Purity. , 2008, , .		0
129	Boron-10 Loaded BC523A Liquid Scintillator for Neutron Detection in the Border Monitoring. IEEE Transactions on Nuclear Science, 2008, 55, 3710-3716.	1.2	37
130	Non-Proportionality of Organic Scintillators and BGO. IEEE Transactions on Nuclear Science, 2008, 55, 1069-1072.	1.2	37
131	Application of Hamamatsu S8550 APD Array to the Common PET/CT Detector. IEEE Transactions on Nuclear Science, 2008, 55, 2460-2464.	1.2	8
132	A Continuous Crystal Detector for TOF PET. , 2008, , .		0
133	Energy Resolution of Calcium Co-doped LSO:Ce Scintillators. , 2008, , .		3
134	Study of LaBr_3 Crystals Coupled to Photomultipliers and Avalanche Photodiodes. IEEE Transactions on Nuclear Science, 2008, 55, 1774-1780.	1.2	28
135	Scintillation Properties of Praseodymium Doped LuAG Scintillator Compared to Cerium Doped LuAG, LSO and LaBr_3 . , 2008, , .		1
136	Further study of Boron-10 loaded liquid scintillators for detection of fast and thermal neutrons. , 2008, , .		3
137	Fast photomultipliers for TOF PET. , 2007, , .		9
138	Application of Hamamatsu S8550 APD array to the common PET/CT detector. , 2007, , .		0
139	Boron-10 loaded BC523A liquid scintillator for neutron detection in the border monitoring. , 2007, , .		2
140	Application of $\text{LaBr}_3(\text{Ce})$ scintillators in radio-isotope identification devices. , 2007, , .		4
141	Study of LaBr_3 crystals coupled to photomultipliers and avalanche photodiodes. , 2007, , .		13
142	Investigation of Absolute Light Output Measurement Techniques. IEEE Transactions on Nuclear Science, 2007, 54, 1367-1371.	1.2	17
143	The Road to the Common PET/CT Detector. IEEE Transactions on Nuclear Science, 2007, 54, 1459-1463.	1.2	14
144	A Further Study of Timing With LSO on XP20D0 for TOF PET. IEEE Transactions on Nuclear Science, 2007, 54, 1464-1473.	1.2	31

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145	The 75 mm diameter photonis XP43D2 photomultiplier with the screening grid at the anode for timing experiments. IEEE Transactions on Nuclear Science, 2006, 53, 1540-1546.	1.2	6
146	Comparative study of large NaI(Tl) and BGO scintillators for the EUROpean illicit TRAfficking countermeasures kit project. IEEE Transactions on Nuclear Science, 2006, 53, 1737-1743.	1.2	22
147	New Prospects for Time-of-Flight PET With LSO Scintillators. IEEE Transactions on Nuclear Science, 2006, 53, 2484-2488.	1.2	66
148	Temperature dependences of LaBr3(Ce), LaCl3(Ce) and NaI(Tl) scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 739-751.	0.7	127
149	New Photonis XP20D0 photomultiplier for fast timing in nuclear medicine. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 31-35.	0.7	58
150	The Road to the Common PET/CT Detector. , 2006, , .		2
151	A Further Study of Timing with LSO on XP20D0 for TOF PET. , 2006, , .		0
152	Characterization of CaWO4 scintillator at room and liquid nitrogen temperatures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 553, 578-591.	0.7	63
153	Comparative Study of Large NaI(Tl) and BGO Scintillators for the EUROpean Illicit TRAfficking Countermeasures Kit Project. , 0, , .		7
154	New Prospects for Time-of-Flight PET with LSO Scintillators. , 0, , .		3