

Gyuseong Cho

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1193807/publications.pdf>

Version: 2024-02-01

176
papers

1,483
citations

430874

18
h-index

526287

27
g-index

177
all docs

177
docs citations

177
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray and charged particle detection with CsI(Tl) layer coupled to a Si:H photodiode layers. IEEE Transactions on Nuclear Science, 1991, 38, 255-262.	2.0	56
2	Amorphous silicon pixel layers with cesium iodide converters for medical radiography. IEEE Transactions on Nuclear Science, 1994, 41, 903-909.	2.0	52
3	High efficiency neutron sensitive amorphous silicon pixel detectors. IEEE Transactions on Nuclear Science, 1994, 41, 915-921.	2.0	51
4	Fabrication and imaging characterization of high sensitive CsI(Tl) and Gd ₂ O ₂ S(Tb) scintillator screens for X-ray imaging detectors. Radiation Measurements, 2010, 45, 742-745.	1.4	47
5	Multi-radioisotope identification algorithm using an artificial neural network for plastic gamma spectra. Applied Radiation and Isotopes, 2019, 147, 83-90.	1.5	42
6	Scintillation characteristics and imaging performance of CsI:Tl thin films for X-ray imaging applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 224-228.	1.6	37
7	Amorphous silicon position sensitive neutron detector. IEEE Transactions on Nuclear Science, 1992, 39, 635-640.	2.0	33
8	Synthesis of Eu-doped (Gd,Y)2O ₃ transparent optical ceramic scintillator. Journal of Materials Research, 2004, 19, 413-416.	2.6	32
9	Characterization of dual layer phoswich detector performance for small animal PET using Monte Carlo simulation. Physics in Medicine and Biology, 2004, 49, 2881-2890.	3.0	31
10	High Sensitivity Readout of 2D a-Si Image Sensors. Japanese Journal of Applied Physics, 1993, 32, 198-204.	1.5	29
11	A study on spatial resolution of pixelated CsI(Tl) scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 205-207.	1.6	28
12	Use of a flat-panel detector for microtomography: a feasibility study for small-animal imaging. IEEE Transactions on Nuclear Science, 2005, 52, 193-198.	2.0	27
13	Enhanced columnar structure in CsI layer by substrate patterning. IEEE Transactions on Nuclear Science, 1992, 39, 1195-1198.	2.0	24
14	Cascade Modeling of Pixelated Scintillator Detectors for X-Ray Imaging. IEEE Transactions on Nuclear Science, 2008, 55, 1357-1366.	2.0	24
15	Effect of yttria substitution on the light output of (Gd,Y)2O ₃ :Eu ceramic scintillator. Nuclear Instruments & Methods in Physics Research B, 2004, 225, 392-396.	1.4	22
16	Optimization of dual Layer phoswich detector consisting of LSO and LuYAP for small animal PET. IEEE Transactions on Nuclear Science, 2005, 52, 217-221.	2.0	22
17	Electronic dose conversion technique using a NaI(Tl) detector for assessment of exposure dose rate from environmental radiation. IEEE Transactions on Nuclear Science, 1998, 45, 981-985.	2.0	21
18	Evaluation of Maximum-Likelihood Position Estimation With Poisson and Gaussian Noise Models in a Small Gamma Camera. IEEE Transactions on Nuclear Science, 2004, 51, 101-104.	2.0	19

#	ARTICLE	IF	CITATIONS
19	Fabrication and characterization of the source grating for visibility improvement of neutron phase imaging with gratings. <i>Review of Scientific Instruments</i> , 2013, 84, 063705.	1.3	19
20	Synthesis and scintillation properties of nano Gd ₂ O ₃ (Eu) scintillator for high resolution X-ray imaging applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 619, 174-176.	1.6	18
21	Analysis of 1/f noise in CMOS preamplifier with CDS circuit. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 1819-1823.	2.0	17
22	Performance studies of a monolithic scintillator-CMOS image sensor for X-ray application. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 591, 113-116.	1.6	17
23	Development of transportable gamma-ray tomographic system for industrial application. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 693, 203-208.	1.6	17
24	An X-ray imaging detector based on pixel structured scintillator. <i>Radiation Measurements</i> , 2007, 42, 1415-1418.	1.4	16
25	Iterative Monte Carlo simulation with the Compton kinematics-based GEB in a plastic scintillation detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 795, 298-304.	1.6	16
26	The sensitivity and spatial resolution dependence on the microstructures of CsI:Tl scintillation layer for X-ray imaging detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 633, S297-S299.	1.6	15
27	Industrial gamma-ray tomographic scan method for large scale industrial plants. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 640, 139-150.	1.6	15
28	External dose-rate conversion factors of radionuclides for air submersion, ground surface contamination and water immersion based on the new ICRP dosimetric setting. <i>Radiation Protection Dosimetry</i> , 2013, 156, 7-24.	0.8	15
29	An Assessment of the Secondary Neutron Dose in the Passive Scattering Proton Beam Facility of the National Cancer Center. <i>Nuclear Engineering and Technology</i> , 2017, 49, 801-809.	2.3	15
30	Ambient dose equivalent measurement with a CsI(Tl) based electronic personal dosimeter. <i>Nuclear Engineering and Technology</i> , 2019, 51, 1991-1997.	2.3	15
31	Pulse pileup correction method for gamma-ray spectroscopy in high radiation fields. <i>Nuclear Engineering and Technology</i> , 2020, 52, 1029-1035.	2.3	15
32	Monte Carlo based time-domain Hspice noise simulation for CSA-CRRC circuit. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 505, 328-333.	1.6	14
33	Optimal design of a CsI(Tl) crystal in a SiPM based compact radiation sensor. <i>Radiation Measurements</i> , 2015, 82, 102-107.	1.4	14
34	Integrated Circuit Design for Radiation-Hardened Charge-Sensitive Amplifier Survived up to 2 Mrad. <i>Sensors</i> , 2020, 20, 2765.	3.8	14
35	Artifacts associated with implementation of the Grangeat formula. <i>Medical Physics</i> , 2002, 29, 2871-2880.	3.0	13
36	Novel nanocrystalline Gd ₂ O ₃ (Eu) scintillator screens with a micro-pixel structure for high spatial resolution X-ray imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 652, 717-720.	1.6	13

#	ARTICLE	IF	CITATIONS
37	Fabrication and characterization of pixelated Gd ₂ O ₂ S:Tb scintillator screens for digital X-ray imaging applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S303-S305.	1.6	13
38	Visibility evaluation of a neutron grating interferometer operated with a polychromatic thermal neutron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 746, 26-32.	1.6	13
39	Pseudo-Gamma Spectroscopy Based on Plastic Scintillation Detectors Using Multitask Learning. Sensors, 2021, 21, 684.	3.8	13
40	A study on the sensitivity of self-powered neutron detectors (SPNDs). IEEE Transactions on Nuclear Science, 2001, 48, 1587-1591.	2.0	12
41	Pinhole collimator design for nuclear survey system. Annals of Nuclear Energy, 2002, 29, 2029-2040.	1.8	12
42	Applications of a-Si:H radiation detectors. Journal of Non-Crystalline Solids, 1989, 115, 174-176.	3.1	11
43	Defect Equilibration and Intrinsic Stress in Undoped Hydrogenated Amorphous Silicon. Japanese Journal of Applied Physics, 1994, 33, 1261-1267.	1.5	11
44	Heterodyne wave number measurement using a double B-dot probe. Review of Scientific Instruments, 2001, 72, 410-412.	1.3	11
45	Polarization-modulated magnetic soft-x-ray transmission microscopy. Journal of Applied Physics, 2005, 98, 093907.	2.5	11
46	Replacement of a photomultiplier tube in a 2-inch thallium-doped sodium iodide gamma spectrometer with silicon photomultipliers and a light guide. Nuclear Engineering and Technology, 2015, 47, 479-487.	2.3	11
47	Development of a lens-coupled CMOS detector for an X-ray inspection system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 545, 210-216.	1.6	10
48	Improvement of the sensitivity and spatial resolution of pixelated CsI:Tl scintillator with reflective coating. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 145-149.	1.6	10
49	Design and image-quality performance of high resolution CMOS-based X-ray imaging detectors for digital mammography. Journal of Instrumentation, 2012, 7, C04020-C04020.	1.2	10
50	Proposing a Simple Radiation Scale for the Public: Radiation Index. Nuclear Engineering and Technology, 2017, 49, 598-608.	2.3	10
51	Efficient design of a 22x22 inch NaI(Tl) scintillation detector coupled with a SiPM in an aquatic environment. Nuclear Engineering and Technology, 2019, 51, 1091-1097.	2.3	10
52	Reconstruction of Compton Edges in Plastic Gamma Spectra Using Deep Autoencoder. Sensors, 2020, 20, 2895.	3.8	10
53	High-resolution X-ray Imaging Based on Pixel-structured CsI:Tl Scintillating Screens for Indirect X-ray Image Sensors. Journal of the Korean Physical Society, 2011, 59, 3670-3673.	0.7	10
54	Comparative study on the radiation damage of a-Si:H p-i-n diodes made by PECVD and ion shower doping. IEEE Transactions on Nuclear Science, 2002, 49, 2244-2249.	2.0	9

#	ARTICLE	IF	CITATIONS
55	Comparative study of CWO and ZnSe(Te) scintillation detector on the performance of X-ray imaging system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 449-453.	1.6	9
56	Determination of point spread function for a flat-panel X-ray imager and its application in image restoration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 563, 167-171.	1.6	9
57	Influence of Guard-Ring Structure on the Dark Count Rates of Silicon Photomultipliers. IEEE Electron Device Letters, 2013, 34, 336-338.	3.9	9
58	Development of a 55 μm pitch 8 inch CMOS image sensor for the high resolution NDT application. Journal of Instrumentation, 2016, 11, P11016-P11016.	1.2	9
59	Radiation safety analysis for the A-BNCT facility in Korea. Applied Radiation and Isotopes, 2018, 142, 92-103.	1.5	9
60	Target-Moderator-Reflector system for 10 μm MeV proton accelerator-driven compact thermal neutron source: Conceptual design and neutronic characterization. Nuclear Engineering and Technology, 2020, 52, 633-646.	2.3	9
61	Development of a Dynamic Food Chain Model DYNACON and Its Application to Korean Agricultural Conditions.. Journal of Nuclear Science and Technology, 1998, 35, 454-461.	1.3	9
62	A 3-D X-ray microtomographic system with a CMOS image sensor. IEEE Transactions on Nuclear Science, 2001, 48, 1503-1505.	2.0	8
63	GEM-type detectors using LIGA and etchable glass technologies. IEEE Transactions on Nuclear Science, 2002, 49, 870-874.	2.0	8
64	Construction and characterization of an amorphous silicon flat-panel detector based on ion-shower doping process. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 505, 155-158.	1.6	8
65	A Pixelated CsI (Tl) Scintillator for CMOS-based X-ray Image Sensor. , 2006, , .		8
66	Deconvolution of gamma-ray spectra obtained with NAI(Tl) detector in a water tank. Radiation Protection Dosimetry, 2009, 135, 203-210.	0.8	8
67	Investigation of the Performance of Scintillator-Based CMOS Flat Panel Detectors for X-Ray and Thermal Neutron Imaging. IEEE Transactions on Nuclear Science, 2010, 57, 1409-1413.	2.0	8
68	A feasibility study on gamma-ray tomography by Monte Carlo simulation for development of portable tomographic system. Applied Radiation and Isotopes, 2012, 70, 404-414.	1.5	8
69	Fast signal transfer in a large-area X-ray CMOS image sensor. Journal of Instrumentation, 2014, 9, P08011-P08011.	1.2	8
70	Improvement of spatial resolution in a Timepix based CdTe photon counting detector using ToT method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 891, 18-24.	1.6	8
71	A neural network approach for identification of gamma-ray spectrum obtained from silicon photomultipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161704.	1.6	8
72	APPLICATION OF A DUAL-ENERGY MONOCHROMATIC XRAY CT ALGORITHM TO POLYCHROMATIC X-RAY CT: A FEASIBILITY STUDY. Nuclear Engineering and Technology, 2012, 44, 61-70.	2.3	8

#	ARTICLE	IF	CITATIONS
73	Signal readout in a-Si:H pixel detectors. IEEE Transactions on Nuclear Science, 1993, 40, 323-327.	2.0	7
74	Spherical approximation in gamma dose calculations and its application to an emergency response action at kori reactor site in Korea. Annals of Nuclear Energy, 1995, 22, 441-452.	1.8	7
75	A hexagonal percolation model for zone-dependent pore interlinkage fraction and its application to the prediction of fission gas release. Annals of Nuclear Energy, 1996, 23, 1445-1457.	1.8	7
76	Development of a Dynamic Food Chain Model DYNACON and Its Application to Korean Agricultural Conditions. Journal of Nuclear Science and Technology, 1998, 35, 454-461.	1.3	7
77	Monte Carlo studies of metal/phosphor screen in therapeutic X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 713-717.	1.6	7
78	A radiation monitoring system with capability of gamma imaging and estimation of exposure dose rate. IEEE Transactions on Nuclear Science, 2002, 49, 1547-1551.	2.0	7
79	Development of X-ray scanner using 450-kVp X-ray. IEEE Transactions on Nuclear Science, 2003, 50, 2414-2419.	2.0	7
80	A scatter correction using thickness iteration in dual-energy radiography. IEEE Transactions on Nuclear Science, 2006, 53, 133-138.	2.0	7
81	Hydrothermal synthesis, structure and scintillation characterization of nanocrystalline Eu ³⁺ -doped Gd ₂ O ₃ materials and its X-ray imaging applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 212-215.	1.6	7
82	Feasibility study on TOF-PET with fill factor improved SiPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S163-S165.	1.6	7
83	Monte Carlo Simulation for the Design of Industrial Gamma-ray Transmission Tomography. Progress in Nuclear Science and Technology, 2011, 1, 263-266.	0.3	7
84	Improved charge collection of the buried p-i-n a-Si:H radiation detectors. IEEE Transactions on Nuclear Science, 1990, 37, 124-128.	2.0	6
85	Leakage current of amorphous silicon p-i-n diodes made by ion shower doping. Applied Physics Letters, 2002, 80, 4843-4845.	3.3	6
86	Ceramic scintillator-coupled linear array PIN photodiode for X-ray scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 208-212.	1.6	6
87	Characterization and imaging performance of nanoscintillator screen for high resolution X-ray imaging detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S294-S296.	1.6	6
88	Optimum Design of Quenching Capacitor Integrated Silicon Photomultipliers for TOF-PET Application. Physics Procedia, 2012, 37, 1511-1517.	1.2	6
89	Inverse calibration matrix algorithm for radiation detection portal monitors. Radiation Physics and Chemistry, 2019, 155, 127-132.	2.8	6
90	Noise in a-Si:H p-i-n detector diodes. IEEE Transactions on Nuclear Science, 1992, 39, 641-644.	2.0	5

#	ARTICLE	IF	CITATIONS
91	Analysis of noise characteristics for the active pixels in CMOS image sensors for X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 263-267.	1.6	5
92	Effect on MIM structured parallel quenching capacitor of SiPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 650, 125-128.	1.6	5
93	Quasi-pixel structured nanocrystalline Gd ₂ O ₃ (Eu) scintillation screens and imaging performance for indirect X-ray imaging sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S12-S15.	1.6	5
94	Sparse-view image reconstruction in prospectively gated micro-CT for fast and low-dose imaging. Journal of the Korean Physical Society, 2012, 60, 1157-1160.	0.7	5
95	CALCULATION OF GAMMA SPECTRA IN A PLASTIC SCINTILLATOR FOR ENERGY CALIBRATION AND DOSE COMPUTATION. Radiation Protection Dosimetry, 2016, 170, 377-381.	0.8	5
96	A new cross-detection method for improved energy-resolving photon counting under pulse pile-up. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 867, 154-162.	1.6	5
97	Radioisotope Identification and Nonintrusive Depth Estimation of Localized Low-Level Radioactive Contaminants Using Bayesian Inference. Sensors, 2020, 20, 95.	3.8	5
98	Effect of electric field on primary dark pulses in SPADs for advanced radiation detection applications. Nuclear Engineering and Technology, 2021, 53, 618-625.	2.3	5
99	Ghost imaging with Bayesian denoising method. Optics Express, 2021, 29, 39323.	3.4	5
100	Assessment of TFT amplifiers for a-Si:H PIXEL particle detectors. IEEE Transactions on Nuclear Science, 1990, 37, 1142-1148.	2.0	4
101	Radiation effects on the resolution (MTF) of the scintillator coupled CMOS APS array imager for non-destructive test X-ray imaging. Annals of Nuclear Energy, 2004, 31, 805-811.	1.8	4
102	DOI resolution measurement and error analysis with LYSO and APDs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 84-87.	1.6	4
103	Performance evaluation for pinhole collimators of small gamma camera by MTF and NNPS analysis: Monte Carlo simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 93-96.	1.6	4
104	Study on response function of CdTe detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 302-306.	1.6	4
105	EVALUATION OF EYE LENS DOSE TO WORKERS IN THE STEAM GENERATOR AT THE KOREAN OPTIMIZED POWER REACTOR 1000. Radiation Protection Dosimetry, 2018, 181, 374-381.	0.8	4
106	A Bayesian Approach for Remote Depth Estimation of Buried Low-Level Radioactive Waste with a NaI(Tl) Detector. Sensors, 2019, 19, 5365.	3.8	4
107	Uncertainty Estimation of the Dose Rate in Real-Time Applications Using Gaussian Process Regression. Sensors, 2020, 20, 2884.	3.8	4
108	A methodology for determining optimal durations for the use of contaminated crops as fodder following a nuclear accident using a dynamic food-chain model. Annals of Nuclear Energy, 2000, 27, 1071-1086.	1.8	3

#	ARTICLE	IF	CITATIONS
109	A computer code for the simulation of x-ray imaging systems. , 2003, , .		3
110	Industrial X-ray imaging based on scintillators and CMOS APS array: direct X-ray irradiation effects. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 454-457.	1.6	3
111	Development and characterization of CMOS-based monolithic X-ray imager sensor. , 2007, , .		3
112	Characterization of silicon photomultipliers at National Nano-Fab Center for PET-MR. Review of Scientific Instruments, 2014, 85, 103107.	1.3	3
113	An optimal RF shielding method for MR&PET fusion system with insertable PET. International Journal of Imaging Systems and Technology, 2014, 24, 263-269.	4.1	3
114	PLASTIC SCINTILLATOR FOR RADIATION DOSIMETRY. Radiation Protection Dosimetry, 2016, 170, 187-190.	0.8	3
115	Energy-correction photon counting pixel for photon energy extraction under pulse pile-up. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 856, 36-46.	1.6	3
116	Detector motion method to increase spatial resolution in photon-counting detectors. Journal of the Korean Physical Society, 2017, 70, 567-573.	0.7	3
117	Simulation of neutral beam tomography using maximum entropy method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 693-697.	1.6	2
118	Scattered Neutron Calibration Fields of KAERI. Journal of Nuclear Science and Technology, 2000, 37, 781-784.	1.3	2
119	Measurement of the neutron fluence and dose spectra using an extended bonner sphere and a tissue-equivalent proportional counter. Radiation Protection Dosimetry, 2004, 110, 717-723.	0.8	2
120	Measurement of the Neutron Spectra Inside and Outside the Target Room of the 65 MeV Electron LINAC using an Extended Bonner Sphere. Journal of Nuclear Science and Technology, 2004, 41, 176-179.	1.3	2
121	The application of 3-D X-ray microtomography with FEM analysis for trabecular bone/cement interface. , 0, , .		2
122	Optimization of CMOS active pixels with high signal-to-noise ratio for high-resolution X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 248-251.	1.6	2
123	The Performance of X-Ray Scanner Using Ceramic Scintillator Base Detector Module. IEEE Transactions on Nuclear Science, 2008, 55, 1321-1326.	2.0	2
124	A study on back irradiation flat panel detector with crystal silicon based x-ray CMOS image sensor. Radiation Physics and Chemistry, 2019, 155, 38-43.	2.8	2
125	A TiO ₂ -Coated Reflective Layer Enhances the Sensitivity of a CsI:TI Scintillator for X-ray Imaging Sensors. Journal of the Optical Society of Korea, 2014, 18, 256-260.	0.6	2
126	Discrete Convolution-Based Energy Spectrum Configuring Method for the Analysis of the Intrinsic Radiation of 176Lu. Sensors, 2021, 21, 7040.	3.8	2

#	ARTICLE	IF	CITATIONS
127	Solid-state personal dosimeter using dose conversion algorithm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 505, 403-406.	1.6	1
128	Evaluation of CMOS APS imager for digital radiography and mammography. , 0, , .		1
129	Optimization of High Energy X-ray Detector Based on SNR in Cargo Container Inspection System. , 0, , .		1
130	Noise response in a CMOS active pixel sensor due to the radiation effects. , 0, , .		1
131	The detective quantum efficiency (DQE) for evaluating the performance of a small gamma camera system with a uniformly redundant array (URA) collimator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 279-281.	1.6	1
132	Fabrication and comparison Gd ₂ O ₃ (Tb) and CsI(Tl) films for X-ray imaging detector application. , 2008, , .		1
133	A Simulation Study on Spatial Resolution and Noise Power Spectra of a URA-based Multi-hole Collimator in a Small Gamma Camera. Journal of Nuclear Science and Technology, 2008, 45, 530-533.	1.3	1
134	Use and imaging performance of CMOS flat panel imager with LiF/ZnS(Ag) and Gadox scintillation screens for neutron radiography. Journal of Instrumentation, 2011, 6, C01064-C01064.	1.2	1
135	Groundshine dose-rate conversion factors of soil contaminated to different depths. Radiation Protection Dosimetry, 2013, 157, 407-429.	0.8	1
136	A complementary dual-slope ADC with high frame rate and wide input range for fast X-ray imaging. Journal of the Korean Physical Society, 2014, 64, 510-515.	0.7	1
137	Evaluation of the latent radiation dose from the activated radionuclides in a cyclotron vault. Journal of the Korean Physical Society, 2015, 66, 571-577.	0.7	1
138	Silicon photomultiplier modules for MRI-compatible PET. Journal of Instrumentation, 2015, 10, C04002-C04002.	1.2	1
139	Improvement in the energy resolving capabilities of photon counting detectors. Journal of Instrumentation, 2016, 11, C12030-C12030.	1.2	1
140	Development of a Position Decoding ASIC for SPECT using Silicon Photomultiplier. Journal of Instrumentation, 2016, 11, C01065-C01065.	1.2	1
141	A design of a valid signal selecting and position decoding ASIC for PET using silicon photomultipliers. Journal of Instrumentation, 2017, 12, C01089-C01089.	1.2	1
142	Well structure engineering to improve the responsivity of p-on-n SiPM developed at KAIST-NNFC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 914, 25-31.	1.6	1
143	Attenuation curves of neutrons from 400 to 550 MeV/u for Ca, Kr, Sn, and U ions in concrete on a graphite target for the design of shielding for the RAON in-flight fragment facility in Korea. Nuclear Engineering and Technology, 2019, 51, 275-283.	2.3	1
144	The Development of Gamma Energy Identifying Algorithm for Compact Radiation Sensors Using Stepwise Refinement Technique. Journal of Radiation Protection and Research, 2017, 42, 91-97.	0.6	1

#	ARTICLE	IF	CITATIONS
145	Evaluation of maximum-likelihood position estimation with Poisson and Gaussian noise models in a small gamma camera. , 0, , .		0
146	Comparative study on radiation damage of a-Si:H p-i-n diodes made by PECVD and ion shower doping. , 0, , .		0
147	Characterization of a 14" Å— 17" flat panel detector based on ion shower doped a-Si:H PIN diodes. , 0, , .		0
148	A methodology for optimisation of countermeasures for animal products after a nuclear accident and its application. Annals of Nuclear Energy, 1999, 26, 1537-1550.	1.8	0
149	Seasonal Influence of Countermeasures for Milk after a Nuclear Accident. Journal of Nuclear Science and Technology, 2000, 37, 880-884.	1.3	0
150	Analysis of 1/f noise in CMOS preamplifier with CDS circuit. , 0, , .		0
151	X-ray laminographic application of lens-coupled CMOS detector for PCB inspection. , 0, , .		0
152	Simulation of maximum-likelihood position estimation in small gamma camera with position-sensitive photomultiplier tube (PSPMT). , 0, , .		0
153	Characterization of a 14 in /spl times/ 17 in flat panel detector based on ion shower doped a-Si : H P-I-N diodes. IEEE Transactions on Nuclear Science, 2003, 50, 1654-1658.	2.0	0
154	Step filter detector module for monitoring of diagnostic X-ray. , 0, , .		0
155	Calculation of detective quantum efficiency for CMOS image sensor coupled with microchannel plate in low energy X-ray imaging. , 0, , .		0
156	Development of a 3-D X-Ray Micro-tomography System and its Application to Trabecular Bone/Cement Interface. Journal of Nuclear Science and Technology, 2004, 41, 369-4.	1.3	0
157	Analysis and Optimization of Signal-to-Noise Ratio in CMOS Active Pixels for High Resolution X-ray Imaging. , 2006, , .		0
158	An experimental study on the variation of MTF and NPS caused by x-ray beam conditions for three indirect digital radiographic imagers. , 2006, , .		0
159	A New algorithm for radioisotope concentration monitoring in cooling water outlet of nuclear power plant. , 2007, , .		0
160	A small gamma camera combined with a uniformly redundant array (URA) collimator: the performance evaluation using detective quantum efficiency (DQE). , 2007, , .		0
161	Characterization of Si-PIN radiation detector with photon counting mode CMOS readout front-end. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 47-51.	1.6	0
162	Study on a Re-verification Detection System for IAEA Safeguard to a Consolidated Spent Fuel Storage System. Journal of Nuclear Science and Technology, 2008, 45, 492-495.	1.3	0

#	ARTICLE	IF	CITATIONS
163	Monte Carlo Study on Optimization of Reflectors in Pixelated CsI Film for Mammographic Application. Journal of Nuclear Science and Technology, 2008, 45, 485-488.	1.3	0
164	Study on the Influence of the Scattered Radiation in the Industrial Transmission Gamma Tomography. Journal of Nuclear Science and Technology, 2008, 45, 371-374.	1.3	0
165	Radiation damage monitoring using gamma-camera at cyclotron facility. , 2008, , .		0
166	Hydrothermal synthesis and characterization of nano Gd ₂ O ₃ (Eu) scintillator for high resolution X-ray imaging application. , 2009, , .		0
167	Optical simulation of new pixelated-scintillator detectors coupled with micro-lens array by ray-trace method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 317-320.	1.6	0
168	Development and evaluation of a high resolution CMOS Image Sensor with 17 μ m \times 17 μ m pixel size for X-ray imaging. , 2010, , .		0
169	Performance comparison of CMOS-based photodiodes for high-resolution and high-sensitivity digital mammography. Journal of Instrumentation, 2011, 6, C12046-C12046.	1.2	0
170	Comparative study of various pixel photodiodes for digital radiography: Junction structure, corner shape and noble window opening. Journal of the Korean Physical Society, 2012, 60, 1413-1418.	0.7	0
171	An image-based approach for reducing metal artifacts in CT. , 2014, , .		0
172	Optimization of a guard ring structure in Geiger-mode avalanche photodiodes fabricated at National NanoFab Center. Journal of Instrumentation, 2016, 11, C01077-C01077.	1.2	0
173	Optimization of the effect of radiation on ASIC chip through detector. , 2018, , .		0
174	Monte Carlo simulations of criticality safety assessments of transuranic element storage in a pyroprocess facility. Nuclear Engineering and Technology, 2018, 50, 815-819.	2.3	0
175	Volumetry of Artificial Pulmonary Nodules in Ex Vivo Porcine Lungs: Comparison of Semi-automated Volumetry and Radiologists' Performance. Journal of the Korean Society of Radiology, 2010, 62, 447.	0.2	0
176	Scintillator-Based Electronic Personal Dosimeter for Mobile Application. , 2017, , 191-218.		0