Akihiro Nohtomi

List of Publications by Year
in descending order

40	217	1163117 8	1125743 13
papers	citations	h-index	g-index

42	42	42	123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental evaluation of validity of simplified Monte Carlo method in proton dose calculations. Physics in Medicine and Biology, 2003, 48, 1277-1288.	3.0	47
2	Multi-layer energy filter for realizing conformal irradiation in charged particle therapy. Medical Physics, 2000, 27, 368-373.	3.0	19
3	Simplified Monte Carlo Dose Calculation for Therapeutic Proton Beams. Japanese Journal of Applied Physics, 2002, 41, L294-L297.	1.5	19
4	Waveform simulation based on 3D dose distribution for acoustic wave generated by proton beam irradiation. Medical Physics, 2007, 34, 3642-3648.	3.0	12
5	Applicability of self-activation of an NaI scintillator for measurement of photo-neutrons around a high-energy X-ray radiotherapy machine. Radiological Physics and Technology, 2015, 8, 125-134.	1.9	11
6	Experimental Evaluation of Pencil Beam Algorithm by Measurements of Dose Distributions of Protons Traversing an L-Shaped Phantom. Japanese Journal of Applied Physics, 2001, 40, 441-445.	1.5	10
7	Accuracy of neutron self-activation method with iodine-containing scintillators for quantifying 128I generation using decay-fitting technique. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 800, 6-11.	1.6	9
8	Range-Modulated Pencil Beam Algorithm for Proton Dose Calculations. Japanese Journal of Applied Physics, 2001, 40, 5187-5193.	1.5	8
9	Absolute Neutron Sensitivity of a GSO(Ce) Scintillation Detector.. Journal of Nuclear Science and Technology, 1997, 34, 80-82.	1.3	8
10	Significance of Ionization-Track Contribution to Self-Quenching Streamer (SQS) Formation Induced by Alpha-Rays. Journal of Nuclear Science and Technology, 1992, 29, 490-492.	1.3	7
11	Conformal irradiation by proton beam scanning and multilayer energy filter. Review of Scientific Instruments, 2003, 74, 1292-1295.	1.3	7
12	Observation of morphological abnormalities in silkworm pupae after feeding 137CsCl-supplemented diet to evaluate the effects of low dose-rate exposure. Scientific Reports, 2020, 10, 16055.	3.3	6
13	An application of CCD read-out technique to neutron distribution measurement using the self-activation method with a CsI scintillator plate. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 832, 21-23.	1.6	5
14	Shape distortion of 128 I ÃŸ â^' spectrum observed by a self-activated CsI(Tl) scintillator for high-sensitivity neutron measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 871, 148-153.	1.6	5
15	Absolute Neutron Sensitivity of a GSO(Ce) Scintillation Detector. Journal of Nuclear Science and Technology, 1997, 34, 80-82.	1.3	4
16	Three-dimensional conformal irradiation with a multilayer energy filter for proton therapy. Review of Scientific Instruments, 2001, 72, 234-236.	1.3	4
17	Electron Drift Characteristics in Single Wire Proportional Counter and Its Applicability to Simple Vertical Position Monitor. Journal of Nuclear Science and Technology, 1991, 28, 339-343.	1.3	3
18	Application of Tail Subtraction Technique with Particle Identification to a Stacked Spectrometer for Intermediate Energy Protons. Journal of Nuclear Science and Technology, 1997, 34, 708-713.	1.3	3

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19	The direct measurement using an imaging plate for coincidence of radiation centre and laser position in external radiation therapy. Physics in Medicine and Biology, 2003, 48, N59-N63.	3.0	3
20	High Sensitive Neutron-Detection by Using a Self-Activation of Iodine-Containing Scintillators for the Photo-Neutron Monitoring around X-ray Radiotherapy Machines. , 2016, , .		3
21	Preliminary design study of a simple neutron energy spectrometer using a CsI self-activation method for daily QA of accelerator-based BNCT. Journal of Nuclear Science and Technology, 2019, 56, 70-77.	1.3	3
22	Significance of Ionization-Track Contribution to Self-Quenching Streamer(SQS) Formation Induced by Alpha-Rays.. Journal of Nuclear Science and Technology, 1992, 29, 490-492.	1.3	3
23	Measurements of Electron Drift Characteristics in Single Wire Gas Counter in Self-Quenching Streamer Transition Region. Journal of Nuclear Science and Technology, 1992, 29, 745-752.	1.3	2
24	Improvement of neutron spectrum unfolding based on three-group approximation using CsI self-activation method for evaluation of neutron dose around medical linacs. Radiation Measurements, 2018, 116, 40-45.	1.4	2
25	Measurement of Dead Zone Characteristics of Gas Counter with Gamma-Ray.. Journal of Nuclear Science and Technology, 1992, 29, 284-287.	1.3	2
26	Measurements of Electron Drift Characteristics in Single Wire Gas Counter in Self-Quenching Streamer Transition Region.. Journal of Nuclear Science and Technology, 1992, 29, 745-752.	1.3	2
27	First optical observation of 10B-neutron capture reactions using a boron-added liquid scintillator for quality assurance in boron neutron capture therapy. Radiological Physics and Technology, 2022, 15, 37-44.	1.9	2
28	Measurement of Dead Zone Characteristics of Gas Counter with Gamma-Ray. Journal of Nuclear Science and Technology, 1992, 29, 284-287.	1.3	1
29	Effect of Timing Non-Linearity of Position Signal on the Output of Linear Discharge Type Analogue Charge Division. Journal of Nuclear Science and Technology, 1993, 30, 573-578.	1.3	1
30	A compensating method of an imaging plate response to clinical proton beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 481, 669-674.	1.6	1
31	AN EVALUATION OF THE BASIC CHARACTERISTICS OF A PLASTIC SCINTILLATING FIBRE DETECTOR IN CT RADIATION FIELDS. Radiation Protection Dosimetry, 2015, 171, ncv473.	0.8	1
32	Neutron Distribution Measurement by the Self-Activation of a CsI Plate with CCD Camera Using a Decaying Self-Activation Imaging Technique. , 2019, , .		1
33	A design study of application of the CsI self-activation method to the neutron rem-counter technique. Radiation Measurements, 2019, 128, 106181.	1.4	1
34	Effect of Methylal Quenching Gas for Self-Quenching Streamer (SQS) Tube with Ar-isoC4H10-Methylal Mixture.. Journal of Nuclear Science and Technology, 1993, 30, 974-980.	1.3	1
35	Application of Tail Subtraction Technique with Particle Identification to a Stacked Spectrometer for Intermediate Energy Protons.. Journal of Nuclear Science and Technology, 1997, 34, 708-713.	1.3	1
36	Effect of Methylal Quenching Gas for Self-Quenching Streamer (SQS) Tube with Ar-isoC₄H₁₀-Methylal Mixture. Journal of Nuclear Science and Technology, 1993, 30, 974-980.	1.3	0

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37	A Computer-Simulation Model for Self-Quenching Streamer (SQS) Propagation Induced by Ionization Track of Alpha-Ray. Journal of Nuclear Science and Technology, 1995, 32, 165-169.	1.3	0
38	Thermal Neutron Flux Measurement by Counting Conversion Electrons from ^{134m}Cs Generated in a CsI Scintillator. , 2018, , .		0
39	Observation of water luminescence for diagnostic 120-kV X-rays by using PMT and CCD camera. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 988, 164935.	1.6	0
40	DEVELOPMENT OF A NEUTRON DOSIMETRY SYSTEM BASED ON DOUBLE SELF-ACTIVATED CSI DETECTORS FOR MEDICAL LINAC ENVIRONMENTS. Radiation Protection Dosimetry, 2020, 192, 378-386.	0.8	0