

Myonggeun Yoon

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

1,148
citations

471061

17
h-index

433756

31
g-index

93
all docs

93
docs citations

93
times ranked

1390
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a dosimetry system for therapeutic X-rays using a flexible amorphous silicon thin-film solar cell with a scintillator screen. <i>Medical Physics</i> , 2022, 49, 4768-4779.	1.6	4
2	The combination of tumor treating fields and hyperthermia has synergistic therapeutic effects in glioblastoma cells by downregulating STAT3.. <i>American Journal of Cancer Research</i> , 2022, 12, 1423-1432.	1.4	0
3	A new real-time personal dosimeter with position monitoring based on a scintillator. <i>Journal of the Korean Physical Society</i> , 2021, 78, 1133.	0.3	0
4	Thymidine decreases the DNA damage and apoptosis caused by tumor-treating fields in cancer cell lines. <i>Genes and Genomics</i> , 2021, 43, 995-1001.	0.5	3
5	Utility of fast non-local means (FNLN) filter for detection of pulmonary nodules in chest CT for pediatric patient. <i>Physica Medica</i> , 2021, 81, 52-59.	0.4	3
6	Feasibility study of a plastic scintillating plate-based treatment beam fluence monitoring system for use in pencil beam scanning proton therapy. <i>Medical Physics</i> , 2020, 47, 703-712.	1.6	2
7	Tumor treating fields (TTF) treatment enhances radiation-induced apoptosis in pancreatic cancer cells. <i>International Journal of Radiation Biology</i> , 2020, 96, 1528-1533.	1.0	9
8	Clinical application of a gantry-attachable plastic scintillating plate dosimetry system in pencil beam scanning proton therapy beam monitoring. <i>Physica Medica</i> , 2020, 77, 181-186.	0.4	4
9	Biophysical Model Including a Potentially Lethal Damage Repair Parameter in Fractionated Carbon Beam. <i>Journal of the Korean Physical Society</i> , 2020, 77, 161-167.	0.3	1
10	Feasibility Study of Beam Angle Optimization for Proton Treatment Planning Using a Genetic Algorithm. <i>Journal of the Korean Physical Society</i> , 2020, 77, 312-316.	0.3	1
11	Development of a Daily-Treatment Beam-Monitoring System Based Gafchromic EBT3 Film for Pencil-Beam Scanning Proton Therapy. <i>Journal of the Korean Physical Society</i> , 2020, 76, 769-773.	0.3	0
12	Sensitivity of radio-photoluminescence glass dosimeters to accumulated doses. <i>PLoS ONE</i> , 2020, 15, e0234829.	1.1	0
13	Tumor-treating fields induce autophagy by blocking the Akt2/miR29b axis in glioblastoma cells. <i>Oncogene</i> , 2019, 38, 6630-6646.	2.6	49
14	Feasibility of a GATE Monte Carlo platform in a clinical pretreatment QA system for VMAT treatment plans using TrueBeam with an HD120 multileaf collimator. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 101-110.	0.8	10
15	Feasibility of fast non local means filter in pediatric chest x-ray for increasing of pulmonary nodule detectability with 3D printed lung nodule phantom. <i>Journal of Radiological Protection</i> , 2019, 39, 872-890.	0.6	6
16	Effectiveness of a Fractionated Therapy Scheme in Tumor Treating Fields Therapy. <i>Technology in Cancer Research and Treatment</i> , 2019, 18, 153303381984500.	0.8	11
17	Quantitative study of fast non-local means-based denoising filter in chest X-ray imaging with lung nodule using three-dimensional printing. <i>Optik</i> , 2019, 179, 1180-1188.	1.4	5
18	Feasibility of newly designed fast non local means (FNLN)-based noise reduction filter for X-ray imaging: A simulation study. <i>Optik</i> , 2018, 160, 124-130.	1.4	19

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19	Increased Efficiency of Range Verification in Routine QA for Pencil-Beam Scanning Proton Therapy. Journal of the Korean Physical Society, 2018, 73, 983-989.	0.3	1
20	Clinical Implementation of an In vivo Dose Verification System Based on a Transit Dose Calculation Tool for 3D-CRT. Journal of the Korean Physical Society, 2018, 73, 1571-1576.	0.3	0
21	Functional Biological Activity of Sorafenib as a Tumor-Treating Field Sensitizer for Glioblastoma Therapy. International Journal of Molecular Sciences, 2018, 19, 3684.	1.8	44
22	Development of a Method for Improving the Electric Field Distribution in Patients Undergoing Tumor-Treating Fields Therapy. Journal of the Korean Physical Society, 2018, 73, 1577-1583.	0.3	3
23	Applicability of Glass Dosimeters for In-vivo Dosimetry in Brachytherapy. Journal of the Korean Physical Society, 2018, 72, 1320-1325.	0.3	0
24	Selective toxicity of tumor treating fields to melanoma: an in vitro and in vivo study. Cell Death Discovery, 2018, 4, 46.	2.0	26
25	Development of Optical Fiber Based Measurement System for the Verification of Entrance Dose Map in Pencil Beam Scanning Proton Beam. Sensors, 2018, 18, 227.	2.1	10
26	Study on the Dose Uncertainties in the Lung during Passive Proton Irradiation with a Proton Beam Range Compensator. Journal of the Korean Physical Society, 2018, 72, 1369-1378.	0.3	0
27	Kilovoltage radiotherapy for companion animals: dosimetric comparison of 300 kV, 450 kV, and 6 MV X-ray beams. Journal of Veterinary Science, 2018, 19, 550.	0.5	5
28	Toward a novel dosimetry system using acrylic disk radiation sensor for proton pencil beam scanning. Medical Physics, 2018, 45, 5277-5282.	1.6	4
29	Estimation of the risk of secondary malignancies following intraoral electron radiotherapy for tongue cancer patients. Journal of Radiotherapy in Practice, 2017, 16, 46-52.	0.2	0
30	Development of a patient dose verification method that uses the transit dose measured with a glass dosimeter. Journal of the Korean Physical Society, 2017, 70, 948-955.	0.3	2
31	Development of beam monitoring system for proton pencil beam scanning using fiber-optic radiation sensor. Journal of the Korean Physical Society, 2017, 71, 438-443.	0.3	5
32	Evaluation of the MEMS based portable respiratory training system with a tactile sensor for respiratory-gated radiotherapy. Journal of the Korean Physical Society, 2017, 71, 452-458.	0.3	0
33	Feasibility Study of Patient Specific Quality Assurance Using Transit Dosimetry Based on Measurement with an Electronic Portal Imaging Device. Progress in Medical Physics, 2017, 28, 54.	0.5	3
34	Gold nanoparticles as a potent radiosensitizer in neutron therapy. Oncotarget, 2017, 8, 112390-112400.	0.8	14
35	Development of an Analytic Software Using Pencil Beam Scanning Proton Beam. Progress in Medical Physics, 2017, 28, 22.	0.4	3
36	Tumor treating fields inhibit glioblastoma cell migration, invasion and angiogenesis. Oncotarget, 2016, 7, 65125-65136.	0.8	100

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37	Estimation of the risk of secondary malignancy arising from whole-breast irradiation: comparison of five radiotherapy modalities, including TomoHDA. <i>Oncotarget</i> , 2016, 7, 22960-22969.	0.8	28
38	Feasibility Study of Source Position Verification in HDR Brachytherapy Using Scintillating Fiber. <i>Progress in Medical Physics</i> , 2016, 27, 213.	0.4	5
39	Feasibility study of patient-specific quality assurance system for high-dose-rate brachytherapy in patients with cervical cancer. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1029-1036.	0.3	0
40	Secondary cancer incidence risk estimates for external radiotherapy and high-dose-rate brachytherapy in cervical cancer: phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 124-132.	0.8	16
41	Comparison of the extent of hippocampal sparing according to the tilt of a patient's head during WBRT using linear accelerator-based IMRT and VMAT. <i>Physica Medica</i> , 2016, 32, 657-663.	0.4	10
42	Biological effect of an alternating electric field on cell proliferation and synergistic antimitotic effect in combination with ionizing radiation. <i>Oncotarget</i> , 2016, 7, 62267-62279.	0.8	60
43	Simulation study of dose enhancement in a cell due to nearby carbon and oxygen in particle radiotherapy. <i>Journal of the Korean Physical Society</i> , 2015, 67, 209-217.	0.3	0
44	Study of quality assurance regulations for linear accelerators in Korea: A comparison study between the current status in Korea and the international guidelines. <i>Journal of the Korean Physical Society</i> , 2015, 67, 17-25.	0.3	1
45	Preliminary study of the dosimetric characteristics of 3D-printed materials with megavoltage photons. <i>Journal of the Korean Physical Society</i> , 2015, 67, 189-194.	0.3	6
46	Examination of a micro-electro-mechanical system based on a portable respiratory monitoring system. <i>Journal of the Korean Physical Society</i> , 2015, 67, 752-756.	0.3	2
47	The Results of the Survey about Present Situation of Quality Assurance for Radiotherapy Machine of Korea. <i>Progress in Medical Physics</i> , 2015, 26, 185.	0.4	1
48	Comparison of Dosimetric Parameters of Patient with Large and Pendulous Breast Receiving Breast Radiotherapy in the Prone versus Supine Position. <i>Progress in Medical Physics</i> , 2015, 26, 234.	0.4	2
49	Detection of IMRT delivery errors based on a simple constancy check of transit dose by using an EPID. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1876-1881.	0.3	1
50	Retrospective estimate of the quality of intensity-modulated radiotherapy plans for lung cancer. <i>Journal of the Korean Physical Society</i> , 2015, 67, 136-141.	0.3	2
51	A comparison of the quality assurance of four dosimetric tools for intensity modulated radiation therapy. <i>Radiology and Oncology</i> , 2015, 49, 307-313.	0.6	28
52	Feasibility study of a simple approximation algorithm for in-vivo dose reconstruction by using the transit dose measured using an EPID. <i>Journal of the Korean Physical Society</i> , 2015, 66, 694-699.	0.3	1
53	Development of a novel proton dosimetry system using an array of fiber-optic Cerenkov radiation sensors. <i>Radiotherapy and Oncology</i> , 2015, 117, 501-504.	0.3	19
54	Feasibility Study for Development of Transit Dosimetry Based Patient Dose Verification System Using the Glass Dosimeter. <i>Progress in Medical Physics</i> , 2015, 26, 241.	0.4	0

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55	Development of Dose Verification Method for In vivo Dosimetry in External Radiotherapy. Progress in Medical Physics, 2014, 25, 23.	0.4	1
56	Inhibition of brain tumor cell proliferation by alternating electric fields. Applied Physics Letters, 2014, 105, .	1.5	14
57	Feasibility study on the verification of actual beam delivery in a treatment room using EPID transit dosimetry. Radiation Oncology, 2014, 9, 273.	1.2	10
58	Estimate of the shielding effect on secondary cancer risk due to cone-beam CT in image-guided radiotherapy. Journal of the Korean Physical Society, 2014, 65, 757-762.	0.3	1
59	Evaluation of the Accuracy of Dose Delivery for IMRT Based on Transit Dosimetry. Health Physics, 2014, 107, 200-205.	0.3	3
60	Risk of a second cancer from scattered radiation in acoustic neuroma treatment. Journal of the Korean Physical Society, 2014, 64, 1919-1927.	0.3	3
61	Radiotherapy-induced secondary cancer risk for breast cancer: 3D conformal therapy versus IMRT versus VMAT. Journal of Radiological Protection, 2014, 34, 325-331.	0.6	66
62	Estimate of the risk of radiation-induced cancers after linear-accelerator-based breast-cancer radiotherapy. Journal of the Korean Physical Society, 2013, 63, 97-103.	0.3	1
63	Estimate of the secondary cancer risk from megavoltage CT in tomotherapy. Journal of the Korean Physical Society, 2013, 62, 1199-1203.	0.3	3
64	Imaging Doses and Secondary Cancer Risk From Kilovoltage Cone-beam CT in Radiation Therapy. Health Physics, 2013, 104, 499-503.	0.3	39
65	Evaluation of the Accuracy for Respiratory-gated RapidArc. Progress in Medical Physics, 2013, 24, 127.	0.4	2
66	Estimation of Secondary Scattered Dose from Intensity-modulated Radiotherapy for Liver Cancer Cases. Progress in Medical Physics, 2013, 24, 295.	0.4	3
67	The Development of Real Time Automatic Patient Position Correction System during the Radiation Therapy Based on CCD: A Feasibility Study. Progress in Medical Physics, 2013, 24, 191.	0.4	1
68	Eye tracking and gating system for proton therapy of orbital tumors. Medical Physics, 2012, 39, 4265-4273.	1.6	21
69	Three-dimensional radiochromic film dosimetry of proton clinical beams using a gafchromic EBT2 film array. Radiation Protection Dosimetry, 2012, 151, 272-277.	0.4	8
70	Dose response of commercially available optically stimulated luminescent detector, AL2O3:C for megavoltage photons and electrons. Radiation Protection Dosimetry, 2012, 149, 101-108.	0.4	30
71	Development and current status of proton therapy for lung cancer in Korea. Thoracic Cancer, 2012, 3, 1-7.	0.8	2
72	Secondary radiation doses of intensity-modulated radiotherapy and proton beam therapy in patients with lung and liver cancer. Radiotherapy and Oncology, 2011, 98, 335-339.	0.3	22

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73	Proton Range Uncertainty Due to Bone Cement Injected Into the Vertebra in Radiation Therapy Planning. <i>Medical Dosimetry</i> , 2011, 36, 299-305.	0.4	4
74	Accuracy of an Automatic Patient-Positioning System Based on the Correlation of Two Edge Images in Radiotherapy. <i>Journal of Digital Imaging</i> , 2011, 24, 322-330.	1.6	4
75	Clinical application of glass dosimeter for in vivo dose measurements of total body irradiation treatment technique. <i>Radiation Measurements</i> , 2011, 46, 40-45.	0.7	25
76	Estimation of the secondary cancer risk induced by diagnostic imaging radiation during proton therapy. <i>Journal of Radiological Protection</i> , 2011, 31, 477-487.	0.6	3
77	? Measurement of secondary neutron dose generated during proton beam therapy for craniospinal irradiation.. <i>Journal of the Korean Physical Society</i> , 2010, 56, 1208-1214.	0.3	4
78	Monte Carlo Simulation Study on Dose Enhancement by Gold Nanoparticles in Brachytherapy. <i>Journal of the Korean Physical Society</i> , 2010, 56, 1754-1758.	0.3	31
79	? When should an adaptive plan be considered for head-and-neck cancer patients undergoing tomotherapy treatment??. <i>Journal of the Korean Physical Society</i> , 2010, 56, 897-904.	0.3	1
80	Characteristics of Movement-Induced Dose Reduction in Target Volume: A Comparison Between Photon and Proton Beam Treatment. <i>Medical Dosimetry</i> , 2009, 34, 191-201.	0.4	10
81	Dosimetric comparison of four different external beam partial breast irradiation techniques: Three-dimensional conformal radiotherapy, intensity-modulated radiotherapy, helical tomotherapy, and proton beam therapy. <i>Radiotherapy and Oncology</i> , 2009, 90, 66-73.	0.3	135
82	Modeling of a digital couch for a proton treatment planning system. <i>Journal of the Korean Physical Society</i> , 2009, 55, 1640-1648.	0.3	3
83	Dosimetry in an IMRT phantom designed for a remote monitoring program. <i>Medical Physics</i> , 2008, 35, 2519-2527.	1.6	11
84	Computerized tomography-based quality assurance tool for proton range compensators. <i>Medical Physics</i> , 2008, 35, 3511-3517.	1.6	11
85	Effect of radiation scattering on dose uniformity in open and closed cell culture vessels. <i>International Journal of Radiation Biology</i> , 2007, 83, 561-566.	1.0	1
86	A new homogeneity index based on statistical analysis of the dose-volume histogram. <i>Journal of Applied Clinical Medical Physics</i> , 2007, 8, 9-17.	0.8	120
87	Accuracy of inhomogeneity correction algorithm in intensity-modulated radiotherapy of head-and-neck tumors. <i>Medical Dosimetry</i> , 2007, 32, 44-51.	0.4	7
88	Optimal Matching of 3D Film-Measured and Planned Doses for Intensity-Modulated Radiation Therapy Quality Assurance. <i>Medical Dosimetry</i> , 2007, 32, 316-324.	0.4	0
89	Optimized matching of film dosimetry with calculated doses for IMRT quality assurance. <i>Physica Medica</i> , 2007, 23, 49-57.	0.4	6
90	A New Method for Fabrication of Cationized Ferritins on Au/Si by Wet Chemical Etching. <i>Journal of the Korean Physical Society</i> , 2007, 50, 1779.	0.3	1

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91	A new evaluation method of target volume coverage and homogeneity for IMRT treatment planning. <i>Physica Medica</i> , 2006, 22, 43-51.	0.4	1
92	Stabilizing influence of double bonds on the Si(111)-(3Å-1) and Ge(111)-(3Å-1) surface reconstructions: new experimental evidence. <i>Surface Science</i> , 2000, 463, 183-190.	0.8	11