

# Myonggeun Yoon

## List of Publications by Year in descending order

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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	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
2	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
3	Tumor treating fields inhibit glioblastoma cell migration, invasion and angiogenesis. <i>Oncotarget</i> , 2016, 7, 65125-65136.	0.8	100
4	Radiotherapy-induced secondary cancer risk for breast cancer: 3D conformal therapy versus IMRT versus VMAT. <i>Journal of Radiological Protection</i> , 2014, 34, 325-331.	0.6	66
5	Biological effect of an alternating electric field on cell proliferation and synergistic antimetabolic effect in combination with ionizing radiation. <i>Oncotarget</i> , 2016, 7, 62267-62279.	0.8	60
6	Tumor-treating fields induce autophagy by blocking the Akt2/miR29b axis in glioblastoma cells. <i>Oncogene</i> , 2019, 38, 6630-6646.	2.6	49
7	Functional Biological Activity of Sorafenib as a Tumor-Treating Field Sensitizer for Glioblastoma Therapy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3684.	1.8	44
8	Imaging Doses and Secondary Cancer Risk From Kilovoltage Cone-beam CT in Radiation Therapy. <i>Health Physics</i> , 2013, 104, 499-503.	0.3	39
9	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
10	Dose response of commercially available optically stimulated luminescent detector, AL2O3:C for megavoltage photons and electrons. <i>Radiation Protection Dosimetry</i> , 2012, 149, 101-108.	0.4	30
11	A comparison of the quality assurance of four dosimetric tools for intensity modulated radiation therapy. <i>Radiotherapy and Oncology</i> , 2015, 49, 307-313.	0.6	28
12	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
13	Selective toxicity of tumor treating fields to melanoma: an in vitro and in vivo study. <i>Cell Death Discovery</i> , 2018, 4, 46.	2.0	26
14	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
15	Secondary radiation doses of intensity-modulated radiotherapy and proton beam therapy in patients with lung and liver cancer. <i>Radiotherapy and Oncology</i> , 2011, 98, 335-339.	0.3	22
16	Eye tracking and gating system for proton therapy of orbital tumors. <i>Medical Physics</i> , 2012, 39, 4265-4273.	1.6	21
17	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
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	Secondary cancerâ€™ incidence risk estimates for external radiotherapy and highâ€™doseâ€™rate brachytherapy in cervical cancer: phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 124-132.	0.8	16
20	Inhibition of brain tumor cell proliferation by alternating electric fields. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	14
21	Gold nanoparticles as a potent radiosensitizer in neutron therapy. <i>Oncotarget</i> , 2017, 8, 112390-112400.	0.8	14
22	Stabilizing influence of double bonds on the Si(111)-(3Ã—1) and Ge(111)-(3Ã—1) surface reconstructions: new experimental evidence. <i>Surface Science</i> , 2000, 463, 183-190.	0.8	11
23	Dosimetry in an IMRT phantom designed for a remote monitoring program. <i>Medical Physics</i> , 2008, 35, 2519-2527.	1.6	11
24	Computerized tomography-based quality assurance tool for proton range compensators. <i>Medical Physics</i> , 2008, 35, 3511-3517.	1.6	11
25	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
26	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
27	Feasibility study on the verification of actual beam delivery in a treatment room using EPID transit dosimetry. <i>Radiation Oncology</i> , 2014, 9, 273.	1.2	10
28	Comparison of the extent of hippocampal sparing according to the tilt of a patientâ€™s head during WBRT using linear accelerator-based IMRT and VMAT. <i>Physica Medica</i> , 2016, 32, 657-663.	0.4	10
29	Development of Optical Fiber Based Measurement System for the Verification of Entrance Dose Map in Pencil Beam Scanning Proton Beam. <i>Sensors</i> , 2018, 18, 227.	2.1	10
30	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
31	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
32	Three-dimensional radiochromic film dosimetry of proton clinical beams using a gafchromic EBT2 film array. <i>Radiation Protection Dosimetry</i> , 2012, 151, 272-277.	0.4	8
33	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
34	Optimized matching of film dosimetry with calculated doses for IMRT quality assurance. <i>Physica Medica</i> , 2007, 23, 49-57.	0.4	6
35	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
36	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

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37	Feasibility Study of Source Position Verification in HDR Brachytherapy Using Scintillating Fiber. Progress in Medical Physics, 2016, 27, 213.	0.4	5
38	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
39	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
40	Quantitative study of fast non-local means-based denoising filter in chest X-ray imaging with lung nodule using three-dimensional printing. Optik, 2019, 179, 1180-1188.	1.4	5
41	Proton Range Uncertainty Due to Bone Cement Injected Into the Vertebra in Radiation Therapy Planning. Medical Dosimetry, 2011, 36, 299-305.	0.4	4
42	Accuracy of an Automatic Patient-Positioning System Based on the Correlation of Two Edge Images in Radiotherapy. Journal of Digital Imaging, 2011, 24, 322-330.	1.6	4
43	Toward a novel dosimetry system using acrylic disk radiation sensor for proton pencil beam scanning. Medical Physics, 2018, 45, 5277-5282.	1.6	4
44	Clinical application of a gantry-attachable plastic scintillating plate dosimetry system in pencil beam scanning proton therapy beam monitoring. Physica Medica, 2020, 77, 181-186.	0.4	4
45	? Measurement of secondary neutron dose generated during proton beam therapy for craniospinal irradiation.. Journal of the Korean Physical Society, 2010, 56, 1208-1214.	0.3	4
46	Development of a dosimetry system for therapeutic X-rays using a flexible amorphous silicon thin-film solar cell with a scintillator screen. Medical Physics, 2022, 49, 4768-4779.	1.6	4
47	Estimation of the secondary cancer risk induced by diagnostic imaging radiation during proton therapy. Journal of Radiological Protection, 2011, 31, 477-487.	0.6	3
48	Estimate of the secondary cancer risk from megavoltage CT in tomotherapy. Journal of the Korean Physical Society, 2013, 62, 1199-1203.	0.3	3
49	Estimation of Secondary Scattered Dose from Intensity-modulated Radiotherapy for Liver Cancer Cases. Progress in Medical Physics, 2013, 24, 295.	0.4	3
50	Evaluation of the Accuracy of Dose Delivery for IMRT Based on Transit Dosimetry. Health Physics, 2014, 107, 200-205.	0.3	3
51	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
52	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
53	Development of an Analytic Software Using Pencil Beam Scanning Proton Beam. Progress in Medical Physics, 2017, 28, 22.	0.4	3
54	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

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55	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
56	Utility of fast non-local means (FNLM) filter for detection of pulmonary nodules in chest CT for pediatric patient. <i>Physica Medica</i> , 2021, 81, 52-59.	0.4	3
57	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
58	Development and current status of proton therapy for lung cancer in Korea. <i>Thoracic Cancer</i> , 2012, 3, 1-7.	0.8	2
59	Evaluation of the Accuracy for Respiratory-gated RapidArc. <i>Progress in Medical Physics</i> , 2013, 24, 127.	0.4	2
60	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
61	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
62	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
63	Development of a patient dose verification method that uses the transit dose measured with a glass dosimeter. <i>Journal of the Korean Physical Society</i> , 2017, 70, 948-955.	0.3	2
64	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
65	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
66	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
67	Estimate of the risk of radiation-induced cancers after linear-accelerator-based breast-cancer radiotherapy. <i>Journal of the Korean Physical Society</i> , 2013, 63, 97-103.	0.3	1
68	The Development of Real Time Automatic Patient Position Correction System during the Radiation Therapy Based on CCD: A Feasibility Study. <i>Progress in Medical Physics</i> , 2013, 24, 191.	0.4	1
69	Development of Dose Verification Method for In vivo Dosimetry in External Radiotherapy. <i>Progress in Medical Physics</i> , 2014, 25, 23.	0.4	1
70	Estimate of the shielding effect on secondary cancer risk due to cone-beam CT in image-guided radiotherapy. <i>Journal of the Korean Physical Society</i> , 2014, 65, 757-762.	0.3	1
71	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
72	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

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73	Detection of IMRT delivery errors based on a simple constancy check of transit dose by using an EPID. Journal of the Korean Physical Society, 2015, 67, 1876-1881.	0.3	1
74	Feasibility study of a simple approximation algorithm for in-vivo dose reconstruction by using the transit dose measured using an EPID. Journal of the Korean Physical Society, 2015, 66, 694-699.	0.3	1
75	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
76	Biophysical Model Including a Potentially Lethal Damage Repair Parameter in Fractionated Carbon Beam. Journal of the Korean Physical Society, 2020, 77, 161-167.	0.3	1
77	Feasibility Study of Beam Angle Optimization for Proton Treatment Planning Using a Genetic Algorithm. Journal of the Korean Physical Society, 2020, 77, 312-316.	0.3	1
78	? When should an adaptive plan be considered for head-and-neck cancer patients undergoing tomotherapy treatment??. Journal of the Korean Physical Society, 2010, 56, 897-904.	0.3	1
79	A New Method for Fabrication of Cationized Ferritins on Au/Si by Wet Chemical Etching. Journal of the Korean Physical Society, 2007, 50, 1779.	0.3	1
80	Optimal Matching of 3D Film-Measured and Planned Doses for Intensity-Modulated Radiation Therapy Quality Assurance. Medical Dosimetry, 2007, 32, 316-324.	0.4	0
81	Simulation study of dose enhancement in a cell due to nearby carbon and oxygen in particle radiotherapy. Journal of the Korean Physical Society, 2015, 67, 209-217.	0.3	0
82	Feasibility study of patient-specific quality assurance system for high-dose-rate brachytherapy in patients with cervical cancer. Journal of the Korean Physical Society, 2016, 68, 1029-1036.	0.3	0
83	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
84	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
85	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
86	Applicability of Glass Dosimeters for In-vivo Dosimetry in Brachytherapy. Journal of the Korean Physical Society, 2018, 72, 1320-1325.	0.3	0
87	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
88	Development of a Daily-Treatment Beam-Monitoring System Based Gafchromic EBT3 Film for Pencil-Beam Scanning Proton Therapy. Journal of the Korean Physical Society, 2020, 76, 769-773.	0.3	0
89	A new real-time personal dosimeter with position monitoring based on a scintillator. Journal of the Korean Physical Society, 2021, 78, 1133.	0.3	0
90	Feasibility Study for Development of Transit Dosimetry Based Patient Dose Verification System Using the Glass Dosimeter. Progress in Medical Physics, 2015, 26, 241.	0.4	0

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91	Sensitivity of radio-photoluminescence glass dosimeters to accumulated doses. PLoS ONE, 2020, 15, e0234829.	1.1	0
92	The combination of tumor treating fields and hyperthermia has synergistic therapeutic effects in glioblastoma cells by downregulating STAT3.. American Journal of Cancer Research, 2022, 12, 1423-1432.	1.4	0