Sung-Joon Ye

List of Publications by Year
in descending order

48 papers	540 citations	687363 13 h-index	713466 21 g-index
48 all docs	48 docs citations	48 times ranked	614 citing authors

#	Article	IF	Citations
1	Dependence of gold nanoparticle radiosensitization on cell geometry. Nanoscale, 2017, 9, 5843-5853.	5.6	61
2	Benchmark of PENELOPE code for low-energy photon transport: dose comparisons with MCNP4 and EGS4. Physics in Medicine and Biology, 2004, 49, 387-397.	3.0	56
3	Europium-Diethylenetriaminepentaacetic Acid Loaded Radioluminescence Liposome Nanoplatform for Effective Radioisotope-Mediated Photodynamic Therapy. ACS Nano, 2020, 14, 13004-13015.	14.6	41
4	Deep-Learning-Based Label-Free Segmentation of Cell Nuclei in Time-Lapse Refractive Index Tomograms. IEEE Access, 2019, 7, 83449-83460.	4.2	38
5	Texture analysis on the fluence map to evaluate the degree of modulation for volumetric modulated arc therapy. Medical Physics, 2014, 41, 111718.	3.0	26
6	Dose errors due to inhomogeneities in balloon catheter brachytherapy for breast cancer. International Journal of Radiation Oncology Biology Physics, 2004, 60, 672-677.	0.8	22
7	Evaluation of the microscopic dose enhancement for nanoparticle-enhanced Auger therapy. Physics in Medicine and Biology, 2016, 61, 7522-7535.	3.0	22
8	Fano cavity test for electron Monte Carlo transport algorithms in magnetic fields: comparison between EGSnrc, PENELOPE, MCNP6 and Geant4. Physics in Medicine and Biology, 2018, 63, 195013.	3.0	22
9	Dynamic <i>In Vivo</i> X-ray Fluorescence Imaging of Gold in Living Mice Exposed to Gold Nanoparticles. IEEE Transactions on Medical Imaging, 2020, 39, 526-533.	8.9	20
10	Use of radiochromic film as a high-spatial resolution dosimeter by Raman spectroscopy. Medical Physics, 2016, 43, 4520-4528.	3.0	19
11	Texture analysis on the edge-enhanced fluence of VMAT. Radiation Oncology, 2015, 10, 74.	2.7	17
12	Pinhole X-ray fluorescence imaging of gadolinium and gold nanoparticles using polychromatic X-rays: a Monte Carlo study. International Journal of Nanomedicine, 2017, Volume 12, 5805-5817.	6.7	15
13	Reduced-dose whole-brain radiotherapy with tumor bed boost after upfront high-dose methotrexate for primary central nervous system lymphoma. Radiation Oncology Journal, 2020, 38, 35-43.	1.5	15
14	Gamma-index method sensitivity for gauging plan delivery accuracy of volumetric modulated arc therapy. Physica Medica, 2015, 31, 1118-1122.	0.7	13
15	Characterization of a CLYC Detector and Validation of the Monte Carlo Simulation by Measurement Experiments. Journal of Radiation Protection and Research, 2017, 42, 48-55.	0.6	12
16	Radiation imaging with a rotational modulation collimator (RMC) coupled to a Cs2LiYCl6:Ce (CLYC) detector. Journal of the Korean Physical Society, 2016, 69, 1644-1650.	0.7	11
17	Attenuation of intracavitary applicators in 192Ir-HDR brachytherapy. Medical Physics, 2004, 31, 2097-2106.	3.0	10
18	Dosimetric effect of CT contrast agent in CyberKnife treatment plans. Radiation Oncology, 2013, 8, 244.	2.7	10

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19	MCNP6.1 simulations for low-energy atomic relaxation: Code-to-code comparison with GATEv7.2, PENELOPE2014, and EGSnrc. Nuclear Instruments & Methods in Physics Research B, 2018, 415, 117-126.	1.4	10
20	Low-energy electron dose-point kernels and radial dose distributions around gold nanoparticles: Comparison between MCNP6.1, PENELOPE2014 and Geant4-DNA. Nuclear Instruments & Methods in Physics Research B, 2018, 430, 18-22.	1.4	8
21	Textural feature calculated from segmental fluences as a modulation index for VMAT. Physica Medica, 2015, 31, 981-990.	0.7	7
22	A Monte Carlo simulation study for the gamma-ray/neutron dual-particle imager using rotational modulation collimator (RMC). Journal of Radiological Protection, 2018, 38, 299-309.	1.1	7
23	Measuring radioenhancement by gold nanofilms: Comparison with analytical calculations. Physica Medica, 2019, 68, 1-9.	0.7	7
24	Optimization of the collimator mask for the rotational modulation collimator-based gamma-ray/neutron dual-particle imager. Current Applied Physics, 2019, 19, 856-865.	2.4	6
25	Compton Background Elimination for in Vivo X-Ray Fluorescence Imaging of Gold Nanoparticles Using Convolutional Neural Network. IEEE Transactions on Nuclear Science, 2020, 67, 2311-2320.	2.0	6
26	The effect of beam interruption during VMAT delivery on the delivered dose distribution. Physica Medica, 2015, 31, 297-300.	0.7	5
27	Characterization of a new tissue equivalent proportional counter for dosimetry of neutron and photon fields: comparison of measurements and Monte Carlo simulations. Physics in Medicine and Biology, 2019, 64, 17NT02.	3.0	5
28	Development of the Hemispherical Rotational Modulation Collimator Imaging System. IEEE Transactions on Nuclear Science, 2019, 66, 2114-2122.	2.0	5
29	Monte Carlo simulation of rotational modulation collimator (RMC) patterns for the gamma-ray/neutron dual-particle imager. , 2015, , .		4
30	Design and evaluation of electron beam energy degraders for breast boost irradiation. Radiation Oncology, 2016, 11, 112.	2.7	4
31	External Auditing on Absorbed Dose Using a Solid Water Phantom for Domestic Radiotherapy Facilities. The Journal of the Korean Society for Therapeutic Radiology and Oncology, 2010, 28, 50.	0.1	4
32	Optimization of bromine-based radical initiators using leucomalachite green and solvents in PRESAGEÂ® dosimeter. Radiation Physics and Chemistry, 2022, 194, 109985.	2.8	4
33	DOPPLER BROADENING EFFECT ON LOW-ENERGY PHOTON DOSE CALCULATIONS USING MCNP5 AND PENELOPE. Health Physics, 2006, 91, 361-366.	0.5	3
34	Surface coating for prevention of metallic seed migration in tissues. Medical Physics, 2015, 42, 2805-2812.	3.0	3
35	Performance of the irregular surface compensator compared with four-field box and intensity modulated radiation therapy for gynecologic cancer. Physica Medica, 2016, 32, 1537-1542.	0.7	3
36	Monte Carlo simulation for scanning technique with scattering foil free electron beam: A proof of concept study. PLoS ONE, 2017, 12, e0177380.	2.5	3

#	Article	IF	Citations
37	Design and Fabrication of CLYC-Based Rotational Modulation Collimator (RMC) System for Gamma-Ray/Neutron Dual-Particle Imager. Journal of Radiation Protection and Research, 2021, 46, 112-119.	0.6	3
38	Dual-Particle Imaging Performance of a Cs_2LiYCl_6:Ce (CLYC)-Based Rotational Modulation Collimator (RMC) System. IEEE Transactions on Nuclear Science, 2022, 69, 1389-1396.	2.0	3
39	Deep Radiomics–based Approach to the Diagnosis of Osteoporosis Using Hip Radiographs. Radiology: Artificial Intelligence, 2022, 4, .	5.8	3
40	Dose perturbation and inhomogeneity of multi-arrays of 125I seed-loaded stent for treatment of portal vein tumor thrombosis. Physica Medica, 2019, 66, 1-7.	0.7	2
41	A Study on the Performance of a Silicon Photodiode Sensor for a Particle Dosimeter and Spectrometer. Sensors, 2021, 21, 8029.	3.8	2
42	Examination of radiation effects on Cs2LiYCl6:Ce3+ scintillators using a 100 MeV proton beam. Journal of the Korean Physical Society, 2022, 80, 382-387.	0.7	2
43	Development of Electron Paramagnetic Resonance Magnet System for In Vivo Tooth Dosimetry. Concepts in Magnetic Resonance Part B, 2022, 2022, 1-10.	0.7	1
44	AUTOMATIC C-ARM REPOSITIONING USING A TWO-BAR LINK SYSTEM FOR REDUCING RADIATION EXPOSURE. Journal of Mechanics in Medicine and Biology, 2015, 15, 1540054.	0.7	0
45	Artifact-free CT images for electron beam therapy using a patient-specific non metallic shield. Physica Medica, 2020, 75, 92-99.	0.7	0
46	Radiosensitization by Au–nanofilm at micrometer level using confocal Raman spectroscopy. Medical Physics, 2021, 48, 796-804.	3.0	0
47	SU-E-J-99: Utilizing CT Dual DFOV in Treatment Planning System. Medical Physics, 2013, 40, 173-173.	3.0	0
48	SU-D-207-05: Real-Time Intrafractional Motion Tracking During VMAT Delivery Using a Conventional Elekta CBCT System. Medical Physics, 2015, 42, 3219-3219.	3.0	0