Tae Suk Suh

List of Publications by Year
in descending order

51	326	933447	940533
papers	citations	10	16
		h-index	g-index

51	51	51	341
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of proton boron fusion reaction to radiation therapy: A Monte Carlo simulation study. Applied Physics Letters, 2014, 105, .	3.3	52
2	Characterization of 3D printing techniques: Toward patient specific quality assurance spine-shaped phantom for stereotactic body radiation therapy. PLoS ONE, 2017, 12, e0176227.	2.5	35
3	Comparison between proton boron fusion therapy (PBFT) and boron neutron capture therapy (BNCT): a Monte Carlo study. Oncotarget, 2017, 8, 39774-39781.	1.8	23
4	Tomographic image of prompt gamma ray from boron neutron capture therapy: A Monte Carlo simulation study. Applied Physics Letters, 2014, 104, .	3.3	20
5	Prompt gamma ray imaging for verification of proton boron fusion therapy: A Monte Carlo study. Physica Medica, 2016, 32, 1271-1275.	0.7	20
6	Development of a deformable lung phantom with 3Dâ€printed flexible airways. Medical Physics, 2020, 47, 898-908.	3.0	14
7	GPUâ€based prompt gamma ray imaging from boron neutron capture therapy. Medical Physics, 2015, 42, 165-169.	3.0	12
8	Optimal planning strategy among various arc arrangements for prostate stereotactic body radiotherapy with volumetric modulated arc therapy technique. Radiology and Oncology, 2017, 51, 112-120.	1.7	12
9	Digital Imaging and Communications in Medicine (DICOM) information conversion procedure for SUV calculation of PET scanners with different DICOM header information. Physica Medica, 2017, 44, 243-248.	0.7	12
10	Therapy region monitoring based on PET using 478â€‰keV single prompt gamma ray during BNCT: A Monte Carlo simulation study. Physica Medica, 2016, 32, 562-567.	0.7	11
11	Dosimetric and radiobiological comparison in different dose calculation grid sizes between Acuros XB and anisotropic analytical algorithm for prostate VMAT. PLoS ONE, 2018, 13, e0207232.	2.5	10
12	Statistical analysis for discrimination of prompt gamma ray peak induced by high energy neutron: Monte Carlo simulation study. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 859-866.	1.5	9
13	The investigation of physical conditions of boron uptake region in proton boron fusion therapy (PBFT). AIP Advances, 2016, 6, .	1.3	8
14	Metal artifacts with dental implants: Evaluation using a dedicated CT/MR oral phantom with registration of the CT and MR images. Scientific Reports, 2019, 9, 754.	3.3	8
15	Comparison of Dosimetric Performance among Commercial Quality Assurance Systems for Verifying Pretreatment Plans of Stereotactic Body Radiotherapy Using Flattening-Filter-Free Beams. Journal of Korean Medical Science, 2016, 31, 1742.	2.5	7
16	Application of proton boron fusion to proton therapy: Experimental verification to detect the alpha particles. Applied Physics Letters, 2019, 115, .	3.3	6
17	Dosimetric Effects of Magnetic Resonance Imaging-assisted Radiotherapy Planning: Dose Optimization for Target Volumes at High Risk and Analytic Radiobiological Dose Evaluation. Journal of Korean Medical Science, 2015, 30, 1522.	2.5	4
18	Evaluation of Dual-channel Compound Method for EBT3 Film Dosimetry. Progress in Medical Physics, 2017, 28, 16.	0.4	4

#	Article	IF	Citations
19	Analysis of therapeutic effectiveness attained through generation of three alpha particles in proton-boron fusion reaction based on Monte Carlo simulation code. Journal of Radioanalytical and Nuclear Chemistry, 2018, 316, 1059-1065.	1.5	4
20	Synergy effect of alpha particles by using natural boron in proton therapy: Computational verification. AIP Advances, 2019, 9, .	1.3	4
21	A multivariate approach to determine electron beam parameters for a Monte Carlo 6 MV Linac model: Statistical and machine learning methods. Physica Medica, 2022, 93, 38-45.	0.7	4
22	The influence of the IMRT QA set-up error on the 2D and 3D gamma evaluation method as obtained by using Monte Carlo simulations. Journal of the Korean Physical Society, 2015, 67, 1859-1867.	0.7	3
23	Development of a room laser based real-time alignment monitoring system using an array of photodiodes. Physica Medica, 2016, 32, 1284-1291.	0.7	3
24	A noble technique a using force-sensing resistor for immobilization-device quality assurance: A feasibility study. Journal of the Korean Physical Society, 2016, 68, 803-809.	0.7	3
25	A simulation study for radiation treatment planning based on the atomic physics of the proton-boron fusion reaction. Journal of the Korean Physical Society, 2017, 70, 629-639.	0.7	3
26	Quantitative analysis of prompt gamma ray imaging during proton boron fusion therapy according to boron concentration. Oncotarget, 2018, 9, 3089-3096.	1.8	3
27	Development of Volumetric Independent Dose Calculation System for Verification of the Treatment Plan in Image-Guided Adaptive Brachytherapy. Frontiers in Oncology, 2020, 10, 609.	2.8	3
28	A method of respiratory phase optimization for better dose sparing of organs at risks: A validation study in patients with lung cancer. Oncotarget, 2018, 9, 205-216.	1.8	3
29	Assessment of logâ€based fingerprinting system of Mobius3D with Elekta linear accelerators. Journal of Applied Clinical Medical Physics, 2022, 23, .	1.9	3
30	Analysis of Pitch and Yaw Deviations Using an Aid-Pillow for the Head and Neck Cancer on the TomoTherapy. Progress in Medical Physics, 2013, 24, 54.	0.4	2
31	Coordinate transformation after stereotactic frame reapplication in Gamma KnifeÂ® radiosurgery. Physica Medica, 2014, 30, 171-177.	0.7	2
32	Fabrication of a customized bone scaffold using a homemade medical 3D printer for comminuted fractures. Journal of the Korean Physical Society, 2016, 69, 852-857.	0.7	2
33	Comparative performance analysis for abdominal phantom ROI detectability according to CT reconstruction algorithm: ADMIRE. Journal of Applied Clinical Medical Physics, 2020, 21, 136-143.	1.9	2
34	Simplified sigmoidal curve fitting for a 6 MV FFF photon beam of the Halcyon to determine the field size for beam commissioning and quality assurance. Radiation Oncology, 2020, 15, 273.	2.7	2
35	Dose Super-Resolution in Prostate Volumetric Modulated Arc Therapy Using Cascaded Deep Learning Networks. Frontiers in Oncology, 2020, 10, 593381.	2.8	2
36	Characteristics of Megavoltage Electron Beams Directed through Silicone for Bolus Electron Therapy. Journal of the Korean Physical Society, 2020, 76, 182-189.	0.7	2

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37	Monte Carlo design and simulation of a grid-type multi-layer pixel collimator for radiotherapy: Feasibility study. Journal of the Korean Physical Society, 2014, 64, 1385-1394.	0.7	1
38	Conceptual Study of Brain Dedicated PET Improving Sensitivity. Progress in Medical Physics, 2016, 27, 236.	0.4	1
39	Evaluating Correlation between Geometrical Relationship and Dose Difference Caused by Respiratory Motion Using Statistical Analysis. Progress in Medical Physics, 2016, 27, 203.	0.4	1
40	Possibility of Interchanging Patients for Beam-Matched Linear Accelerators from the Same Vendor. Journal of the Korean Physical Society, 2019, 75, 628-635.	0.7	1
41	Performance Evaluation of a Transmission Reference Detector for Commissioning Beam Data in a Wedge Field. Journal of the Korean Physical Society, 2019, 74, 405-413.	0.7	1
42	Feasibility Study of Deep Learning Tumor Segmentation for a Merged Tumor Dataset: Head & Neck and Limbs. Journal of the Korean Physical Society, 2020, 77, 1049-1054.	0.7	1
43	Development of Dosimetric Verification System for Patient-Specific Quality Assurance of High-Dose-Rate Brachytherapy. Frontiers in Oncology, 2021, 11, 647222.	2.8	1
44	Supporting ability of customized metal scaffold to protect biodegradable scaffold for effective bone reconstruction. Journal of the Korean Physical Society, 2021, 78, 729-734.	0.7	1
45	Four-dimensional inverse-geometry computed tomography: a preliminary study. Physics in Medicine and Biology, 2021, 66, 065028.	3.0	1
46	Study of Motion-induced Dose Error Caused by Irregular Tumor Motion in Helical Tomotherapy. Progress in Medical Physics, 2015, 26, 119.	0.4	0
47	Relevant reduction effect with a modified thermoplastic mask of rotational error for glottic cancer in IMRT. Journal of the Korean Physical Society, 2017, 70, 308-316.	0.7	0
48	The first step towards a respiratory motion prediction for natural-breathing by using a motion generator. Journal of the Korean Physical Society, 2017, 70, 621-628.	0.7	0
49	To propose adding index of achievement (IOA) to IMRT QA process. Radiation Oncology, 2018, 13, 112.	2.7	0
50	Daily adaptive proton therapy: Feasibility study of detection of tumor variations based on tomographic imaging of prompt gamma emission from protonâ€“boron fusion reaction. Nuclear Engineering and Technology, 2022, , .	2.3	0
51	Evaluating the Effects of Dose Rate on Dynamic Intensity-Modulated Radiation Therapy Quality Assurance. Progress in Medical Physics, 2021, 32, 116-121.	0.3	0