Toshiyuki Toshito

List of Publications by Year
in descending order

48	1,147	361413 20	395702 33
papers	citations	h-index	g-index

49	49	49	745
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Treatment planning for a scanned carbon beam with a modified microdosimetric kinetic model. Physics in Medicine and Biology, 2010, 55, 6721-6737.	3.0	233
2	Luminescence imaging of water during protonâ€beam irradiation for range estimation. Medical Physics, 2015, 42, 6498-6506.	3.0	74
3	Luminescence imaging of water during carbon-ion irradiation for range estimation. Medical Physics, 2016, 43, 2455-2463.	3.0	66
4	Evaluation of hybrid depth scanning for carbon-ion radiotherapy. Medical Physics, 2012, 39, 2820-2825.	3.0	62
5	A proton therapy system in Nagoya Proton Therapy Center. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 645-654.	1.3	54
6	Luminescence imaging of water during alpha particle irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 819, 6-13.	1.6	48
7	Luminescence imaging of water during irradiation of X-ray photons lower energy than Cerenkov-light threshold. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 832, 264-270.	1.6	42
8	Spot Scanning and Passive Scattering Proton Therapy: Relative Biological Effectiveness and Oxygen Enhancement Ratio in Cultured Cells. International Journal of Radiation Oncology Biology Physics, 2016, 95, 95-102.	0.8	41
9	Secondary-electron-bremsstrahlung imaging for proton therapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 199-207.	1.6	37
10	Development of a low-energy x-ray camera for the imaging of secondary electron bremsstrahlung x-ray emitted during proton irradiation for range estimation. Physics in Medicine and Biology, 2017, 62, 5006-5020.	3.0	37
11	Compatibility of the repairable-conditionally repairable, multi-target and linear-quadratic models in converting hypofractionated radiation doses to single doses. Journal of Radiation Research, 2013, 54, 367-373.	1.6	29
12	Estimation and correction of produced light from prompt gamma photons on luminescence imaging of water for proton therapy dosimetry. Physics in Medicine and Biology, 2018, 63, 04NT02.	3.0	29
13	A patientâ€specific aperture system with an energy absorber for spot scanning proton beams: Verification for clinical application. Medical Physics, 2015, 42, 6999-7010.	3.0	28
14	Acute toxicity of image-guided hypofractionated proton therapy for localized prostate cancer. International Journal of Clinical Oncology, 2018, 23, 353-360.	2.2	26
15	Whole-pelvic radiotherapy with spot-scanning proton beams for uterine cervical cancer: a planning study. Journal of Radiation Research, 2016, 57, 524-532.	1.6	25
16	Evaluation of the influence of double and triple Gaussian proton kernel models on accuracy of dose calculations for spot scanning technique. Medical Physics, 2016, 43, 1437-1450.	3.0	25
17	Evaluation of dosimetric advantages of using patientâ€specific aperture system with intensityâ€modulated proton therapy for the shallow depth tumor. Journal of Applied Clinical Medical Physics, 2018, 19, 132-137.	1.9	25
18	Addition of luminescence process in Monte Carlo simulation to precisely estimate the light emitted from water during proton and carbon-ion irradiation. Physics in Medicine and Biology, 2018, 63, 125019.	3.0	25

#	Article	IF	Citations
19	Measurement of nuclear reaction cross sections by using Cherenkov radiation toward high-precision proton therapy. Scientific Reports, 2018, 8, 2570.	3.3	23
20	Monitoring of positron using high-energy gamma camera for proton therapy. Annals of Nuclear Medicine, 2015, 29, 268-275.	2.2	20
21	Clinical outcomes of image-guided proton therapy for histologically confirmed stage I non-small cell lung cancer. Radiation Oncology, 2018, 13, 199.	2.7	19
22	High resolution Cerenkov light imaging of induced positron distribution in proton therapy. Medical Physics, 2014, 41, 111913.	3.0	18
23	Stability and linearity of luminescence imaging of water during irradiation of proton-beams and X-ray photons lower energy than the Cerenkov light threshold. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 883, 48-56.	1.6	17
24	Proton therapy for non-squamous cell carcinoma of the head and neck: planning comparison and toxicity. Journal of Radiation Research, 2019, 60, 612-621.	1.6	15
25	Concurrent Chemo-Proton Therapy Using Adaptive Planning for Unresectable Stage 3 Non-Small Cell Lung Cancer: A Phase 2 Study. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1359-1367.	0.8	13
26	Scintillation imaging of air during proton and carbon-ion beam irradiations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 149-155.	1.6	11
27	A Phase 2 Study of Image-Guided Proton Therapy for Operable or Ablation-Treatable Primary Hepatocellular Carcinoma. International Journal of Radiation Oncology Biology Physics, 2021, 111, 117-126.	0.8	11
28	Combined effects of cisplatin and photon or proton irradiation in cultured cells: radiosensitization, patterns of cell death and cell cycle distribution. Journal of Radiation Research, 2020, 61, 832-841.	1.6	10
29	Estimation of the optical errors on the luminescence imaging of water for proton beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 888, 163-168.	1.6	9
30	Three-dimensional (3D) dose distribution measurements of proton beam using a glass plate. Biomedical Physics and Engineering Express, 2019, 5, 045033.	1.2	9
31	Dosimetric verification of <scp>IMPT</scp> using a commercial heterogeneous phantom. Journal of Applied Clinical Medical Physics, 2019, 20, 114-120.	1.9	9
32	Prediction of dose distribution from luminescence image of water using a deep convolutional neural network for particle therapy. Medical Physics, 2020, 47, 3882-3891.	3.0	8
33	Image-Guided Proton Therapy for Elderly Patients with Hepatocellular Carcinoma: High Local Control and Quality of Life Preservation. Cancers, 2021, 13, 219.	3.7	7
34	Biological effects of passive scattering and spot scanning proton beams at the distal end of the spread-out Bragg peak in single cells and multicell spheroids. International Journal of Radiation Biology, 2021, 97, 695-703.	1.8	6
35	Luminescence imaging of water during uniform-field irradiation by spot scanning proton beams. Physics in Medicine and Biology, 2018, 63, 11NT01.	3.0	5
36	Liver phantom design and dosimetric verification in participating institutions for a proton beam therapy in patients with resectable hepatocellular carcinoma: Japan Clinical Oncology Group trial (JCOG1315C). Radiotherapy and Oncology, 2019, 140, 98-104.	0.6	5

#	Article	IF	Citations
37	Dosimetric response of a glass dosimeter in proton beams: LET-dependence and correction factor. Physica Medica, 2021, 81, 147-154.	0.7	5
38	Outcomes of proton therapy for non-small cell lung cancer in patients with interstitial pneumonia. Radiation Oncology, 2022, 17, 56.	2.7	5
39	Development of a prototype Open-close positron emission tomography system. Review of Scientific Instruments, 2015, 86, 084301.	1.3	4
40	Investigation of energy absorption by clustered gold nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2018, 429, 34-41.	1.4	3
41	Evaluating the usefulness of the direct density reconstruction algorithm for intensity modulated and passively scattered proton therapy: Validation using an anthropomorphic phantom. Physica Medica, 2021, 92, 95-101.	0.7	3
42	Spot Scanning Proton Therapy for Sinonasal Malignant Tumors. International Journal of Particle Therapy, 2021, 8, 189-199.	1.8	2
43	Patient-Reported Quality of Life Outcomes after Moderately Hypofractionated and Normofractionated Proton Therapy for Localized Prostate Cancer. Cancers, 2022, 14, 517.	3.7	2
44	A quality assurance for respiratory gated proton irradiation with range modulation wheel. Journal of Applied Clinical Medical Physics, 2019, 20, 258-264.	1.9	1
45	Changes in sexual function and serum testosterone levels in patients with prostate cancer after image-guided proton therapy. Journal of Radiation Research, 2021, 62, 517-524.	1.6	1
46	Study on Nuclear Fragmentation by High Speed Emulsion Read-Out System. , 2006, , .		0
47	Validation of nuclear reaction models in Geant4 for the purpose of carbon ion radiotherapy. , 2007, , .		0
48	Prompt gamma-ray imaging with a nuclear emulsion for in vivo dose verification in proton therapy. , 2017, , .		0