

# Toshiyuki Toshito

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,147  
citations

361296

20  
h-index

395590

33  
g-index

49  
all docs

49  
docs citations

49  
times ranked

745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment planning for a scanned carbon beam with a modified microdosimetric kinetic model. <i>Physics in Medicine and Biology</i> , 2010, 55, 6721-6737.	1.6	233
2	Luminescence imaging of water during proton beam irradiation for range estimation. <i>Medical Physics</i> , 2015, 42, 6498-6506.	1.6	74
3	Luminescence imaging of water during carbon-ion irradiation for range estimation. <i>Medical Physics</i> , 2016, 43, 2455-2463.	1.6	66
4	Evaluation of hybrid depth scanning for carbon-ion radiotherapy. <i>Medical Physics</i> , 2012, 39, 2820-2825.	1.6	62
5	A proton therapy system in Nagoya Proton Therapy Center. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 645-654.	1.4	54
6	Luminescence imaging of water during alpha particle irradiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 819, 6-13.	0.7	48
7	Luminescence imaging of water during irradiation of X-ray photons lower energy than Cerenkov-light threshold. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 832, 264-270.	0.7	42
8	Spot Scanning and Passive Scattering Proton Therapy: Relative Biological Effectiveness and Oxygen Enhancement Ratio in Cultured Cells. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 95-102.	0.4	41
9	Secondary-electron-bremsstrahlung imaging for proton therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 833, 199-207.	0.7	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. <i>Physics in Medicine and Biology</i> , 2017, 62, 5006-5020.	1.6	37
11	Compatibility of the repairable-conditionally repairable, multi-target and linear-quadratic models in converting hypofractionated radiation doses to single doses. <i>Journal of Radiation Research</i> , 2013, 54, 367-373.	0.8	29
12	Estimation and correction of produced light from prompt gamma photons on luminescence imaging of water for proton therapy dosimetry. <i>Physics in Medicine and Biology</i> , 2018, 63, 04NT02.	1.6	29
13	A patient-specific aperture system with an energy absorber for spot scanning proton beams: Verification for clinical application. <i>Medical Physics</i> , 2015, 42, 6999-7010.	1.6	28
14	Acute toxicity of image-guided hypofractionated proton therapy for localized prostate cancer. <i>International Journal of Clinical Oncology</i> , 2018, 23, 353-360.	1.0	26
15	Whole-pelvic radiotherapy with spot-scanning proton beams for uterine cervical cancer: a planning study. <i>Journal of Radiation Research</i> , 2016, 57, 524-532.	0.8	25
16	Evaluation of the influence of double and triple Gaussian proton kernel models on accuracy of dose calculations for spot scanning technique. <i>Medical Physics</i> , 2016, 43, 1437-1450.	1.6	25
17	Evaluation of dosimetric advantages of using patient-specific aperture system with intensity-modulated proton therapy for the shallow depth tumor. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 132-137.	0.8	25
18	Addition of luminescence process in Monte Carlo simulation to precisely estimate the light emitted from water during proton and carbon-ion irradiation. <i>Physics in Medicine and Biology</i> , 2018, 63, 125019.	1.6	25

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19	Measurement of nuclear reaction cross sections by using Cherenkov radiation toward high-precision proton therapy. <i>Scientific Reports</i> , 2018, 8, 2570.	1.6	23
20	Monitoring of positron using high-energy gamma camera for proton therapy. <i>Annals of Nuclear Medicine</i> , 2015, 29, 268-275.	1.2	20
21	Clinical outcomes of image-guided proton therapy for histologically confirmed stage I non-small cell lung cancer. <i>Radiation Oncology</i> , 2018, 13, 199.	1.2	19
22	High resolution Cerenkov light imaging of induced positron distribution in proton therapy. <i>Medical Physics</i> , 2014, 41, 111913.	1.6	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. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 883, 48-56.	0.7	17
24	Proton therapy for non-squamous cell carcinoma of the head and neck: planning comparison and toxicity. <i>Journal of Radiation Research</i> , 2019, 60, 612-621.	0.8	15
25	Concurrent Chemo-Proton Therapy Using Adaptive Planning for Unresectable Stage 3 Non-Small Cell Lung Cancer: A Phase 2 Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 1359-1367.	0.4	13
26	Scintillation imaging of air during proton and carbon-ion beam irradiations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 833, 149-155.	0.7	11
27	A Phase 2 Study of Image-Guided Proton Therapy for Operable or Ablation-Treatable Primary Hepatocellular Carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 117-126.	0.4	11
28	Combined effects of cisplatin and photon or proton irradiation in cultured cells: radiosensitization, patterns of cell death and cell cycle distribution. <i>Journal of Radiation Research</i> , 2020, 61, 832-841.	0.8	10
29	Estimation of the optical errors on the luminescence imaging of water for proton beam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 888, 163-168.	0.7	9
30	Three-dimensional (3D) dose distribution measurements of proton beam using a glass plate. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 045033.	0.6	9
31	Dosimetric verification of <math>\langle \text{scp} \rangle \text{IMPT} \langle / \text{scp} \rangle</math> using a commercial heterogeneous phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 114-120.	0.8	9
32	Prediction of dose distribution from luminescence image of water using a deep convolutional neural network for particle therapy. <i>Medical Physics</i> , 2020, 47, 3882-3891.	1.6	8
33	Image-Guided Proton Therapy for Elderly Patients with Hepatocellular Carcinoma: High Local Control and Quality of Life Preservation. <i>Cancers</i> , 2021, 13, 219.	1.7	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. <i>International Journal of Radiation Biology</i> , 2021, 97, 695-703.	1.0	6
35	Luminescence imaging of water during uniform-field irradiation by spot scanning proton beams. <i>Physics in Medicine and Biology</i> , 2018, 63, 11NT01.	1.6	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). <i>Radiotherapy and Oncology</i> , 2019, 140, 98-104.	0.3	5

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37	Dosimetric response of a glass dosimeter in proton beams: LET-dependence and correction factor. <i>Physica Medica</i> , 2021, 81, 147-154.	0.4	5
38	Outcomes of proton therapy for non-small cell lung cancer in patients with interstitial pneumonia. <i>Radiation Oncology</i> , 2022, 17, 56.	1.2	5
39	Development of a prototype Open-close positron emission tomography system. <i>Review of Scientific Instruments</i> , 2015, 86, 084301.	0.6	4
40	Investigation of energy absorption by clustered gold nanoparticles. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2018, 429, 34-41.	0.6	3
41	Evaluating the usefulness of the direct density reconstruction algorithm for intensity modulated and passively scattered proton therapy: Validation using an anthropomorphic phantom. <i>Physica Medica</i> , 2021, 92, 95-101.	0.4	3
42	Spot Scanning Proton Therapy for Sinonasal Malignant Tumors. <i>International Journal of Particle Therapy</i> , 2021, 8, 189-199.	0.9	2
43	Patient-Reported Quality of Life Outcomes after Moderately Hypofractionated and Normofractionated Proton Therapy for Localized Prostate Cancer. <i>Cancers</i> , 2022, 14, 517.	1.7	2
44	A quality assurance for respiratory gated proton irradiation with range modulation wheel. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 258-264.	0.8	1
45	Changes in sexual function and serum testosterone levels in patients with prostate cancer after image-guided proton therapy. <i>Journal of Radiation Research</i> , 2021, 62, 517-524.	0.8	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