

# Masataka Komori

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,244  
citations

361413

20  
h-index

377865

34  
g-index

54  
all docs

54  
docs citations

54  
times ranked

896  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of fragment reaction of relativistic heavy charged particles on heavy-ion radiotherapy. <i>Physics in Medicine and Biology</i> , 2003, 48, 1605-1623.	3.0	138
2	Irradiation System for HIMAC. <i>Journal of Radiation Research</i> , 2007, 48, A15-A25.	1.6	107
3	Spatial fragment distribution from a therapeutic pencil-like carbon beam in water. <i>Physics in Medicine and Biology</i> , 2005, 50, 3393-3403.	3.0	81
4	Luminescence imaging of water during proton beam irradiation for range estimation. <i>Medical Physics</i> , 2015, 42, 6498-6506.	3.0	74
5	Luminescence imaging of water during carbon-ion irradiation for range estimation. <i>Medical Physics</i> , 2016, 43, 2455-2463.	3.0	66
6	Three-dimensional printer-generated patient-specific phantom for artificial in vivo dosimetry in radiotherapy quality assurance. <i>Physica Medica</i> , 2017, 44, 205-211.	0.7	66
7	New Accelerator Facility for Carbon-Ion Cancer-Therapy. <i>Journal of Radiation Research</i> , 2007, 48, A43-A54.	1.6	65
8	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.	1.6	48
9	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.	1.6	42
10	Commissioning of a conformal irradiation system for heavy-ion radiotherapy using a layer-stacking method. <i>Medical Physics</i> , 2006, 33, 2989-2997.	3.0	38
11	Evaluation of beam wobbling methods for heavy-ion radiotherapy. <i>Medical Physics</i> , 2008, 35, 927-938.	3.0	35
12	Source of luminescence of water lower energy than the Cerenkov-light threshold during irradiation of carbon-ion. <i>Journal of Physics Communications</i> , 2018, 2, 065010.	1.2	30
13	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.	3.0	29
14	Dose contributions from large-angle scattered particles in therapeutic carbon beams. <i>Medical Physics</i> , 2006, 34, 193-198.	3.0	28
15	Field-size dependence of doses of therapeutic carbon beams. <i>Medical Physics</i> , 2007, 34, 4016-4022.	3.0	28
16	Validation of accuracy in image co-registration with computed tomography and magnetic resonance imaging in Gamma Knife radiosurgery. <i>Journal of Radiation Research</i> , 2014, 55, 924-933.	1.6	28
17	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.	3.0	28
18	Dynamic splitting of Gaussian pencil beams in heterogeneity-correction algorithms for radiotherapy with heavy charged particles. <i>Physics in Medicine and Biology</i> , 2009, 54, 2015-2027.	3.0	26

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19	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.	3.0	25
20	Monitoring of positron using high-energy gamma camera for proton therapy. <i>Annals of Nuclear Medicine</i> , 2015, 29, 268-275.	2.2	20
21	Optimization of Spiral-Wobbler System for Heavy-Ion Radiotherapy. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 6463-6467.	1.5	19
22	High resolution Cerenkov light imaging of induced positron distribution in proton therapy. <i>Medical Physics</i> , 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. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 883, 48-56.	1.6	17
24	Precise measurement of the cross section of $^3\text{He}(^3\text{He}, 2p)^4\text{He}$ by using $^3\text{He}$ doubly charged beam. <i>Physical Review C</i> , 2004, 69, .	2.9	16
25	Geometric accuracy of 3D coordinates of the Leksell stereotactic skull frame in 1.5 Tesla- and 3.0 Tesla-magnetic resonance imaging: a comparison of three different fixation screw materials. <i>Journal of Radiation Research</i> , 2014, 55, 1184-1191.	1.6	12
26	Simulation study of a dosimetric comparison between a Gamma Knife treatment plan and an intensity-modulated radiotherapy plan for skull base tumors. <i>Journal of Radiation Research</i> , 2014, 55, 518-526.	1.6	12
27	Dosimetric comparison of absolute and relative dose distributions between tissue maximum ratio and convolution algorithms for acoustic neurinoma plans in Gamma Knife radiosurgery. <i>Acta Neurochirurgica</i> , 2014, 156, 1483-1489.	1.7	12
28	Responses of a diamond detector to high-LET charged particles. <i>Physics in Medicine and Biology</i> , 2005, 50, 2275-2289.	3.0	11
29	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.	1.6	11
30	Measurements of Dose-Averaged Linear Energy Transfer Distributions in Water Using CR-39 Plastic Nuclear Track Detector for Therapeutic Carbon Ion Beams. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 8722-8726.	1.5	10
31	Effect of skull contours on dose calculations in Gamma Knife Perfexion stereotactic radiosurgery. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 28-38.	1.9	10
32	Efficacy of magnetic resonance imaging at 3 $\hat{\text{A}}$ T compared with 1.5 $\hat{\text{A}}$ T in small pituitary tumors for stereotactic radiosurgery planning. <i>Japanese Journal of Radiology</i> , 2014, 32, 22-29.	2.4	9
33	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.	1.6	9
34	Three-dimensional (3D) dose distribution measurements of proton beam using a glass plate. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 045033.	1.2	9
35	Assessment of spatial uncertainty in computed tomography-based Gamma Knife stereotactic radiosurgery process with automated positioning system. <i>Acta Neurochirurgica</i> , 2014, 156, 1929-1935.	1.7	7
36	Geometric accuracy in three-dimensional coordinates of Leksell stereotactic skull frame with wide-bore 1.5-T MRI compared with conventional 1.5-T MRI. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2014, 58, 595-600.	1.8	7

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37	High brightness $^3\text{He}$ ion source and plasma target for nuclear astrophysical applications. Review of Scientific Instruments, 1998, 69, 1032-1034.	1.3	6
38	Estimation of the three-dimensional (3D) dose distribution of electron beams from medical linear accelerator (LINAC) using plastic scintillator plate. Radiation Measurements, 2019, 124, 103-108.	1.4	6
39	The basic study of a bi-material range compensator for improving dose uniformity for proton therapy. Physics in Medicine and Biology, 2008, 53, 5555-5569.	3.0	5
40	Development of an irradiation method with lateral modulation of SOBPs width using a coneâ€type filter for carbon ion beams. Medical Physics, 2009, 36, 2222-2227.	3.0	5
41	Luminescence imaging of biological subjects during X-ray irradiations lower energy than Cerenkov-light threshold. Optical Review, 2017, 24, 428-435.	2.0	5
42	Luminescence imaging of water during uniform-field irradiation by spot scanning proton beams. Physics in Medicine and Biology, 2018, 63, 11NT01.	3.0	5
43	Effective usage of a clearance check to avoid a collision in Gamma Knife Perfexion radiosurgery with the Leksell skull frame. Journal of Radiation Research, 2014, 55, 1192-1198.	1.6	4
44	Development of a prototype Open-close positron emission tomography system. Review of Scientific Instruments, 2015, 86, 084301.	1.3	4
45	MEASUREMENT OF INTERNAL RADIATION DOSE DISTRIBUTION IN CT EXAMINATIONS USING POLYETHYLENE TEREPHTHALATE RESIN. Radiation Protection Dosimetry, 2018, 181, 303-309.	0.8	3
46	Imaging of fragment particles in water by nuclear spallation during carbon-ion irradiation. Physics in Medicine and Biology, 2019, 64, 13NT01.	3.0	2
47	Measurements of temporal response of luminescence of water at lower energy than Cerenkov-light threshold during carbon-ion irradiation. Biomedical Physics and Engineering Express, 2020, 6, 045002.	1.2	2
48	Radioluminescence by synchrotron radiation with lower energy than the Cherenkov light threshold in water. Journal of Physics Communications, 2020, 4, 075002.	1.2	2
49	Compact carbon-therapy facility and next-generation irradiation scheme. Radiation Physics and Chemistry, 2008, 77, 1148-1152.	2.8	1
50	Microdosimetric calculation of penumbra for biological dose in wobbling carbon-ion beams with Monte Carlo Method. Radiological Physics and Technology, 2013, 6, 415-422.	1.9	1
51	Status of a Carbon-Ion Therapy Facility and Development for Advanced Treatment. Journal of the Korean Physical Society, 2008, 53, 3709-3713.	0.7	1
52	Development of an x-ray-opaque-marker system for quantitative phantom positioning in patient-specific quality assurance. Physica Medica, 2021, 91, 121-130.	0.7	1
53	OPTIMIZATION OF AN ADDITIONAL COLLIMATOR IN A BEAM DELIVERY SYSTEM FOR REDUCTION OF THE SECONDARY NEUTRON EXPOSURE IN PASSIVE CARBON-ION THERAPY. Radiation Protection Dosimetry, 2019, 184, 28-35.	0.8	0