

Shuichi Ozawa

List of Publications by Year in descending order

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623188

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84
all docs

84
docs citations

84
times ranked

930
citing authors

#	ARTICLE	IF	CITATIONS
1	A dose comparison study between XVI [®] and OBI [®] CBCT systems. Medical Physics, 2008, 35, 480-486.	1.6	130
2	Multicenter prospective study of stereotactic body radiotherapy for previously untreated solitary primary hepatocellular carcinoma: The STRSPH study. Hepatology Research, 2021, 51, 461-471.	1.8	40
3	A randomized Phase III trial of comparing two dose-fractionations stereotactic body radiotherapy (SBRT) for medically inoperable Stage IA non-small cell lung cancer or small lung lesions clinically diagnosed as primary lung cancer: Japan Clinical Oncology Group Study JCOG1408 (J-SBRT trial). Japanese Journal of Clinical Oncology, 2017, 47, 277-281.	0.6	36
4	Gafchromic EBT [®] film: Dosimetry characterization in high-dose, volumetric [®] modulated arc therapy. Journal of Applied Clinical Medical Physics, 2016, 17, 312-322.	0.8	35
5	Feasibility of single-isocenter, multi-arc non-coplanar volumetric modulated arc therapy for multiple brain tumors using a linear accelerator with a 160-leaf multileaf collimator: a phantom study. Journal of Radiation Research, 2014, 55, 1015-1020.	0.8	28
6	Combined Ventilation and Perfusion Imaging Correlates With the Dosimetric Parameters of Radiation Pneumonitis in Radiation Therapy Planning for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2015, 93, 778-787.	0.4	27
7	An image quality comparison study between XVI and OBI CBCT systems. Journal of Applied Clinical Medical Physics, 2011, 12, 376-390.	0.8	26
8	The dosimetric impact of respiratory breast movement and daily setup error on tangential whole breast irradiation using conventional wedge, field-in-field and irregular surface compensator techniques. Journal of Radiation Research, 2013, 54, 157-165.	0.8	25
9	Marginal prescription equivalent to the isocenter prescription in lung stereotactic body radiotherapy: preliminary study for Japan Clinical Oncology Group trial (JCOG1408). Journal of Radiation Research, 2017, 58, 149-154.	0.8	20
10	Efficacy of robust optimization plan with partial [®] arc [®] VMAT [®] for photon volumetric [®] modulated arc therapy: A phantom study. Journal of Applied Clinical Medical Physics, 2017, 18, 97-103.	0.8	20
11	Multi-institutional comparison of treatment planning using stereotactic ablative body radiotherapy for hepatocellular carcinoma – benchmark for a prospective multi-institutional study. Radiation Oncology, 2013, 8, 113.	1.2	17
12	Comparison of hypofractionated and conventionally fractionated whole-breast irradiation for early breast cancer patients: a single-institute study of 1,098 patients. Breast Cancer, 2014, 21, 402-408.	1.3	17
13	Image synthesis of monoenergetic CT image in dual [®] energy CT using kilovoltage CT with deep convolutional generative adversarial networks. Journal of Applied Clinical Medical Physics, 2021, 22, 184-192.	0.8	16
14	Dosimetric impact of Lipiodol in stereotactic body radiation therapy on liver after trans [®] arterial chemoembolization. Medical Physics, 2017, 44, 342-348.	1.6	15
15	Tolerance levels of [®] CT [®] number to electron density table for photon beam in radiotherapy treatment planning system. Journal of Applied Clinical Medical Physics, 2018, 19, 271-275.	0.8	15
16	Image synthesis with deep convolutional generative adversarial networks for material decomposition in dual-energy CT from a kilovoltage CT. Computers in Biology and Medicine, 2021, 128, 104111.	3.9	15
17	Clinical experience of volumetric modulated arc therapy for malignant pleural mesothelioma after extrapleural pneumonectomy. Journal of Radiation Research, 2015, 56, 315-324.	0.8	14
18	Functional image-guided stereotactic body radiation therapy planning for patients with hepatocellular carcinoma. Medical Dosimetry, 2017, 42, 97-103.	0.4	14

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19	Availability of applying diaphragm matching with the breath-holding technique in stereotactic body radiation therapy for liver tumors. <i>Physica Medica</i> , 2016, 32, 557-561.	0.4	13
20	Impact of deformable image registration accuracy on thoracic images with different regularization weight parameter settings. <i>Physica Medica</i> , 2017, 42, 108-111.	0.4	13
21	The role of chemoradiotherapy in patients with unresectable T4 breast tumors. <i>Breast Cancer</i> , 2013, 20, 254-261.	1.3	12
22	Radiotherapy with fraction size of 2.25 Gy in T1-2 laryngeal and hypopharyngeal cancer. <i>Journal of Radiation Research</i> , 2013, 54, 684-689.	0.8	12
23	Interfractional diaphragm changes during breath-holding in stereotactic body radiotherapy for liver cancer. <i>Reports of Practical Oncology and Radiotherapy</i> , 2018, 23, 84-90.	0.3	12
24	Comparison of total MU and segment areas in VMAT and step-and-shoot IMRT plans. <i>Radiological Physics and Technology</i> , 2013, 6, 14-20.	1.0	11
25	Absorbed dose and image quality of Varian TrueBeam CBCT compared with OBI CBCT. <i>Physica Medica</i> , 2016, 32, 1628-1633.	0.4	11
26	MRI appearance change during stereotactic radiotherapy for large brain metastases and importance of treatment plan modification during treatment period. <i>Japanese Journal of Radiology</i> , 2019, 37, 850-859.	1.0	11
27	Development of a CT number calibration audit phantom in photon radiation therapy: A pilot study. <i>Medical Physics</i> , 2020, 47, 1509-1522.	1.6	11
28	Relative biological effectiveness study of Lipiodol based on microdosimetric-kinetic model. <i>Physica Medica</i> , 2018, 46, 89-95.	0.4	10
29	Predictive gamma passing rate for three-dimensional dose verification with finite detector elements via improved dose uncertainty potential accumulation model. <i>Medical Physics</i> , 2020, 47, 1349-1356.	1.6	9
30	Dose compensation based on biological effectiveness due to interruption time for photon radiation therapy. <i>British Journal of Radiology</i> , 2020, 93, 20200125.	1.0	9
31	Accuracy of the raw-data-based effective atomic numbers and monochromatic CT numbers for contrast medium with a dual-energy CT technique. <i>British Journal of Radiology</i> , 2018, 91, 20170524.	1.0	8
32	Metal artifact reduction techniques for single energy CT and dual-energy CT with various metal materials. <i>BJR Open</i> , 2019, 1, bjro.20180045.	0.4	8
33	Tolerance levels of mass density for CT number calibration in photon radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 45-52.	0.8	8
34	Split-VMAT technique to control the expiratory breath-hold time in liver stereotactic body radiation therapy. <i>Physica Medica</i> , 2017, 40, 17-23.	0.4	7
35	A novel verification method using a plastic scintillator imagining system for assessment of gantry sag in radiotherapy. <i>Medical Physics</i> , 2018, 45, 2411-2424.	1.6	7
36	An end-to-end postal audit test to examine the coincidence between the imaging isocenter and treatment beam isocenter of the IGRT linac system for Japan Clinical Oncology Group (JCOG) clinical trials. <i>Physica Medica</i> , 2018, 53, 145-152.	0.4	7

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37	Scintillator screen for measuring dose distribution in scanned carbon-ion therapy. <i>Radiation Measurements</i> , 2019, 129, 106207.	0.7	7
38	Automatic gas detection in prostate cancer patients during image-guided radiation therapy using a deep convolutional neural network. <i>Physica Medica</i> , 2019, 64, 24-28.	0.4	6
39	Synthesized effective atomic numbers for commercially available dual-energy CT. <i>Reports of Practical Oncology and Radiotherapy</i> , 2020, 25, 692-697.	0.3	6
40	Comparison of 4% MV photon surface dose among Varian, Siemens, and Elekta linear accelerators for tangential breast treatment: a phantom study. <i>Radiation Medicine</i> , 2007, 25, 8-13.	0.8	5
41	Full-dose capecitabine with local radiotherapy: one of the treatment options for inoperable T4 breast cancer. <i>Japanese Journal of Radiology</i> , 2011, 29, 222-225.	1.0	5
42	Simple quality assurance method of dynamic tumor tracking with the gimbaled linac system using a light field. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 177-183.	0.8	5
43	Method of evaluating respiratory induced organ motion by vector volume histogram. <i>Physica Medica</i> , 2016, 32, 1570-1574.	0.4	5
44	An overview of the medical-physics-related verification system for radiotherapy multicenter clinical trials by the Medical Physics Working Group in the Japan Clinical Oncology Group "Radiation Therapy Study Group. <i>Journal of Radiation Research</i> , 2020, 61, 999-1008.	0.8	5
45	Quality assurance for dynamic tumor tracking using the Vero4DRT system. <i>International Journal of Cancer Therapy and Oncology</i> , 2016, 4, 4112.	0.2	5
46	Evaluation of cone-beam computed tomography image quality assurance for Vero4DRT system. <i>Reports of Practical Oncology and Radiotherapy</i> , 2017, 22, 258-263.	0.3	4
47	Energy spectrum and dose enhancement due to the depth of the Lipiodol position using flattened and unflattened beams. <i>Reports of Practical Oncology and Radiotherapy</i> , 2018, 23, 50-56.	0.3	4
48	Automatic contrast medium extraction system using electron density data with dual-energy CT. <i>British Journal of Radiology</i> , 2018, 91, 20180396.	1.0	4
49	Evaluation of raw-data-based and calculated electron density for contrast media with a dual-energy CT technique. <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 499-506.	0.3	4
50	Volumetric modulated arc therapy with robust optimization for larynx cancer. <i>Physica Medica</i> , 2019, 58, 54-58.	0.4	4
51	A novel risk analysis of clinical reference dosimetry based on failure modes and effects analysis. <i>Physica Medica</i> , 2019, 58, 59-65.	0.4	4
52	Characterization of robust optimization for VMAT plan for liver cancer. <i>Reports of Practical Oncology and Radiotherapy</i> , 2020, 25, 376-381.	0.3	4
53	Evaluation of interbreath-hold lung tumor position reproducibility with vector volume histogram using the breath-hold technique. <i>Medical Dosimetry</i> , 2020, 45, 252-255.	0.4	4
54	Proposed patient motion monitoring system using feature point tracking with a web camera. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2017, 40, 939-942.	1.4	3

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55	Photon and electron backscatter dose and energy spectrum analysis around Lipiodol using flattened and unflattened beams. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 178-183.	0.8	3
56	Effectiveness of robust optimization in volumetric modulated arc therapy using 6 and 10 MV flattening filter-free beam therapy planning for lung stereotactic body radiation therapy with a breath-hold technique. <i>Journal of Radiation Research</i> , 2020, 61, 575-585.	0.8	3
57	Assessment of biological dosimetric margin for stereotactic body radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 31-41.	0.8	3
58	Scintillator screen for measuring low-dose halo in scanning carbon-ion therapy. <i>Radiation Measurements</i> , 2020, 133, 106299.	0.7	3
59	Image quality and absorbed dose comparison of single- and dual-source cone-beam computed tomography. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 360-366.	0.8	2
60	Effect of secondary electron generation on dose enhancement in Lipiodol with and without a flattening filter. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 211-217.	0.8	2
61	4D modeling in a gimbaled linear accelerator by using gold anchor markers. <i>Reports of Practical Oncology and Radiotherapy</i> , 2018, 23, 183-188.	0.3	2
62	Reduction of margin to compensate the respiratory tumor motion by the analysis of dosimetric internal target volume in lung SBRT with nonuniform volume prescription method. <i>Medical Physics</i> , 2021, 48, 3200-3207.	1.6	2
63	Effect of tumor amplitude and frequency on 4D modeling of Vero4DRT system. <i>Reports of Practical Oncology and Radiotherapy</i> , 2017, 22, 290-294.	0.3	2
64	Impact on liver position under breath-hold by computed tomography contrast agents in stereotactic body radiotherapy of liver cancer. <i>Reports of Practical Oncology and Radiotherapy</i> , 2021, 26, 1035-1044.	0.3	2
65	Biological dose-enhancement analysis with Monte Carlo simulation for Lipiodol for photon beams. <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 681-687.	0.3	1
66	Automatic calibration of an arbitrarily-set near-infrared camera for patient surface respiratory monitoring. <i>Medical Physics</i> , 2019, 46, 1163-1174.	1.6	1
67	Evaluation of metal artefact techniques with same contrast scale for different commercially available dual-energy computed tomography scanners. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 539-546.	1.3	1
68	Investigation of interfractional variation in lung tumor position under expiratory-phase breath hold using cone-beam computed tomography in stereotactic body radiation therapy. <i>Medical Dosimetry</i> , 2021, 46, 370-373.	0.4	1
69	Baseline drift vector of multiple points on body surface using a near-infrared camera. <i>Physical and Engineering Sciences in Medicine</i> , 2022, 45, 143.	1.3	1
70	Irradiator issues: Source, dose, and waste management. <i>Transfusion and Apheresis Science</i> , 2022, , 103407.	0.5	1
71	Impact of reduction of flux overlap region on kilovoltage cone-beam computed tomography image quality and patients' exposure dose. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016, 21, 460-465.	0.3	0
72	Evaluation of beam modeling for small fields using a flattening filter-free beam. <i>Radiological Physics and Technology</i> , 2017, 10, 33-40.	1.0	0

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73	Couch Displacement Effects on Volumetric Modulated Arc Therapy Delivery and Verification of Simplified Couch Structure. Juntendo Medical Journal, 2017, 63, 458-466.	0.1	0
74	Improving automatic contrast agent extraction system using monochromatic CT number. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 819-826.	1.4	0
75	Effect of image quality on correlation modeling error using a fiducial marker in a gimbaled linear accelerator. Reports of Practical Oncology and Radiotherapy, 2019, 24, 233-238.	0.3	0
76	Treatment planning comparison between dynamic wave arc and volumetric modulated arc therapies for prostate-cancer treatment. Medical Dosimetry, 2021, , .	0.4	0
77	Verification of Target Localization. , 2015, , 131-139.		0
78	Gantry angle classification with a fluence map in intensity-modulated radiotherapy for prostate cases using machine learning. Polish Journal of Medical Physics and Engineering, 2018, 24, 165-169.	0.2	0
79	Quality assurance of a gimbaled head swing verification using feature point tracking. Journal of Applied Clinical Medical Physics, 2017, 18, 49-52.	0.8	0