Shuichi Ozawa

List of Publications by Year
in descending order

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79	803	623188 14	610482 24
papers	citations	h-index	g-index

84	84	84	930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Baseline drift vector of multiple points on body surface using a near-infrared camera. Physical and Engineering Sciences in Medicine, 2022, 45, 143.	1.3	1
2	Irradiator issues: Source, dose, and waste management. Transfusion and Apheresis Science, 2022, , 103407.	0.5	1
3	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
4	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
5	Image synthesis of monoenergetic CT image in dualâ€energy CT using kilovoltage CT with deep convolutional generative adversarial networks. Journal of Applied Clinical Medical Physics, 2021, 22, 184-192.	0.8	16
6	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. Medical Physics, 2021, 48, 3200-3207.	1.6	2
7	Investigation of interfractional variation in lung tumor position under expiratory-phase breath hold using cone-beam computed tomography in stereotactic body radiation therapy. Medical Dosimetry, 2021, 46, 370-373.	0.4	1
8	Treatment planning comparison between dynamic wave arc and volumetric modulated arc therapies for prostate-cancer treatment. Medical Dosimetry, 2021, , .	0.4	0
9	Impact on liver position under breath-hold by computed tomography contrast agents in stereotactic body radiotherapy of liver cancer. Reports of Practical Oncology and Radiotherapy, 2021, 26, 1035-1044.	0.3	2
10	Predictive gamma passing rate for threeâ€dimensional dose verification with finite detector elements via improved dose uncertainty potential accumulation model. Medical Physics, 2020, 47, 1349-1356.	1.6	9
11	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 Groupâ€“Radiation Therapy Study Group. Journal of Radiation Research, 2020, 61, 999-1008.	0.8	5
12	Characterization of robust optimization for VMAT plan for liver cancer. Reports of Practical Oncology and Radiotherapy, 2020, 25, 376-381.	0.3	4
13	Dose compensation based on biological effectiveness due to interruption time for photon radiation therapy. British Journal of Radiology, 2020, 93, 20200125.	1.0	9
14	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. Journal of Radiation Research, 2020, 61, 575-585.	0.8	3
15	Synthesized effective atomic numbers for commercially available dual-energy CT. Reports of Practical Oncology and Radiotherapy, 2020, 25, 692-697.	0.3	6
16	Assessment of biological dosimetric margin for stereotactic body radiation therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 31-41.	0.8	3
17	Scintillator screen for measuring low-dose halo in scanning carbon-ion therapy. Radiation Measurements, 2020, 133, 106299.	0.7	3
18	Evaluation of interbreath-hold lung tumor position reproducibility with vector volume histogram using the breath-hold technique. Medical Dosimetry, 2020, 45, 252-255.	0.4	4

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19	Development of a CT number calibration audit phantom in photon radiation therapy: A pilot study. Medical Physics, 2020, 47, 1509-1522.	1.6	11
20	Evaluation of metal artefact techniques with same contrast scale for different commercially available dual-energy computed tomography scanners. Physical and Engineering Sciences in Medicine, 2020, 43, 539-546.	1.3	1
21	MRI appearance change during stereotactic radiotherapy for large brain metastases and importance of treatment plan modification during treatment period. Japanese Journal of Radiology, 2019, 37, 850-859.	1.0	11
22	Evaluation of raw-data-based and calculated electron density for contrast media with a dual-energy CT technique. Reports of Practical Oncology and Radiotherapy, 2019, 24, 499-506.	0.3	4
23	Metal artifact reduction techniques for single energy CT and dual-energy CT with various metal materials. BJR|Open, 2019, 1, bjro.20180045.	0.4	8
24	Scintillator screen for measuring dose distribution in scanned carbon-ion therapy. Radiation Measurements, 2019, 129, 106207.	0.7	7
25	Volumetric modulated arc therapy with robust optimization for larynx cancer. Physica Medica, 2019, 58, 54-58.	0.4	4
26	A novel risk analysis of clinical reference dosimetry based on failure modes and effects analysis. Physica Medica, 2019, 58, 59-65.	0.4	4
27	Improving automatic contrast agent extraction system using monochromatic CT number. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 819-826.	1.4	0
28	Automatic gas detection in prostate cancer patients during image-guided radiation therapy using a deep convolutional neural network. Physica Medica, 2019, 64, 24-28.	0.4	6
29	Photon and electron backscatter dose and energy spectrum analysis around Lipiodol using flattened and unflattened beams. Journal of Applied Clinical Medical Physics, 2019, 20, 178-183.	0.8	3
30	Tolerance levels of mass density for CT number calibration in photon radiation therapy. Journal of Applied Clinical Medical Physics, 2019, 20, 45-52.	0.8	8
31	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
32	Biological dose-enhancement analysis with Monte Carlo simulation for Lipiodol for photon beams. Reports of Practical Oncology and Radiotherapy, 2019, 24, 681-687.	0.3	1
33	Automatic calibration of an arbitrarilyâ€set nearâ€infrared camera for patient surface respiratory monitoring. Medical Physics, 2019, 46, 1163-1174.	1.6	1
34	Accuracy of the raw-data-based effective atomic numbers and monochromatic CT numbers for contrast medium with a dual-energy CT technique. British Journal of Radiology, 2018, 91, 20170524.	1.0	8
35	Image quality and absorbed dose comparison of single- and dual-source cone-beam computed tomography. Journal of Applied Clinical Medical Physics, 2018, 19, 360-366.	0.8	2
36	Effect of secondary electron generation on dose enhancement in Lipiodol with and without a flattening filter. Journal of Applied Clinical Medical Physics, 2018, 19, 211-217.	0.8	2

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37	A novel verification method using a plastic scintillator imagining system for assessment of gantry sag in radiotherapy. Medical Physics, 2018, 45, 2411-2424.	1.6	7
38	Energy spectrum and dose enhancement due to the depth of the Lipiodol position using flattened and unflattened beams. Reports of Practical Oncology and Radiotherapy, 2018, 23, 50-56.	0.3	4
39	Interfractional diaphragm changes during breath-holding in stereotactic body radiotherapy for liver cancer. Reports of Practical Oncology and Radiotherapy, 2018, 23, 84-90.	0.3	12
40	Relative biological effectiveness study of Lipiodol based on microdosimetric-kinetic model. Physica Medica, 2018, 46, 89-95.	0.4	10
41	Tolerance levels of <scp>CT</scp> 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
42	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. Physica Medica, 2018, 53, 145-152.	0.4	7
43	4D modeling in a gimbaled linear accelerator by using gold anchor markers. Reports of Practical Oncology and Radiotherapy, 2018, 23, 183-188.	0.3	2
44	Automatic contrast medium extraction system using electron density data with dual-energy CT. British Journal of Radiology, 2018, 91, 20180396.	1.0	4
45	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
46	Dosimetric impact of Lipiodol in stereotactic body radiation therapy on liver after transâ€arterial chemoembolization. Medical Physics, 2017, 44, 342-348.	1.6	15
47	Functional image-guided stereotactic body radiation therapy planning for patients with hepatocellular carcinoma. Medical Dosimetry, 2017, 42, 97-103.	0.4	14
48	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
49	Evaluation of cone-beam computed tomography image quality assurance for Vero4DRT system. Reports of Practical Oncology and Radiotherapy, 2017, 22, 258-263.	0.3	4
50	Proposed patient motion monitoring system using feature point tracking with a web camera. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 939-942.	1.4	3
51	Impact of deformable image registration accuracy on thoracic images with different regularization weight parameter settings. Physica Medica, 2017, 42, 108-111.	0.4	13
52	Split-VMAT technique to control the expiratory breath-hold time in liver stereotactic body radiation therapy. Physica Medica, 2017, 40, 17-23.	0.4	7
53	Efficacy of robust optimization plan with partialâ€arc <scp>VMAT</scp> for photon volumetricâ€modulated arc therapy: A phantom study. Journal of Applied Clinical Medical Physics, 2017, 18, 97-103.	0.8	20
54	Evaluation of beam modeling for small fields using a flattening filter-free beam. Radiological Physics and Technology, 2017, 10, 33-40.	1.0	0

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55	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
56	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
57	Effect of tumor amplitude and frequency on 4D modeling of Vero4DRT system. Reports of Practical Oncology and Radiotherapy, 2017, 22, 290-294.	0.3	2
58	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
59	Simple quality assurance method of dynamic tumor tracking with the gimbaled linac system using a light field. Journal of Applied Clinical Medical Physics, 2016, 17, 177-183.	0.8	5
60	Gafchromic EBTâ€XD film: Dosimetry characterization in highâ€dose, volumetricâ€modulated arc therapy. Journal of Applied Clinical Medical Physics, 2016, 17, 312-322.	0.8	35
61	Absorbed dose and image quality of Varian TrueBeam CBCT compared with OBI CBCT. Physica Medica, 2016, 32, 1628-1633.	0.4	11
62	Availability of applying diaphragm matching with the breath-holding technique in stereotactic body radiation therapy for liver tumors. Physica Medica, 2016, 32, 557-561.	0.4	13
63	Method of evaluating respiratory induced organ motion by vector volume histogram. Physica Medica, 2016, 32, 1570-1574.	0.4	5
64	Impact of reduction of flux overlap region on kilovoltage cone-beam computed tomography image quality and patientsâ€™ exposure dose. Reports of Practical Oncology and Radiotherapy, 2016, 21, 460-465.	0.3	0
65	Quality assurance for dynamic tumor tracking using the Vero4DRT system. International Journal of Cancer Therapy and Oncology, 2016, 4, 4112.	0.2	5
66	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
67	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
68	Verification of Target Localization. , 2015, , 131-139.		0
69	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
70	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
71	Multi-institutional comparison of treatment planning using stereotactic ablative body radiotherapy for hepatocellular carcinoma â€“ benchmark for a prospective multi-institutional study. Radiation Oncology, 2013, 8, 113.	1.2	17
72	The role of chemoradiotherapy in patients with unresectable T4 breast tumors. Breast Cancer, 2013, 20, 254-261.	1.3	12

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73	Comparison of total MU and segment areas in VMAT and step-and-shoot IMRT plans. Radiological Physics and Technology, 2013, 6, 14-20.	1.0	11
74	Radiotherapy with fraction size of 2.25 Gy in T1-2 laryngeal and hypopharyngeal cancer. Journal of Radiation Research, 2013, 54, 684-689.	0.8	12
75	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
76	An image quality comparison study between XVI and OBI CBCT systems. Journal of Applied Clinical Medical Physics, 2011, 12, 376-390.	0.8	26
77	Full-dose capecitabine with local radiotherapy: one of the treatment options for inoperable T4 breast cancer. Japanese Journal of Radiology, 2011, 29, 222-225.	1.0	5
78	A dose comparison study between XVI^{Â®}and OBI^{Â®}CBCT systems. Medical Physics, 2008, 35, 480-486.	1.6	130
79	Comparison of 4â€‰MV photon surface dose among Varian, Siemens, and Elekta linear accelerators for tangential breast treatment: a phantom study. Radiation Medicine, 2007, 25, 8-13.	0.8	5