Florian Kamp

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10545536/publications.pdf

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41	957	566801	454577
papers	citations	15 h-index	30 g-index

43	43	43	828
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigating CT to CBCT image registration for head and neck proton therapy as a tool for daily dose recalculation. Medical Physics, 2015, 42, 1354-1366.	1.6	115
2	ScatterNet: A convolutional neural network for coneâ€beam CT intensity correction. Medical Physics, 2018, 45, 4916-4926.	1.6	101
3	Medical physics challenges in clinical MR-guided radiotherapy. Radiation Oncology, 2020, 15, 93.	1.2	101
4	Investigating deformable image registration and scatter correction for CBCTâ€based dose calculation in adaptive IMPT. Medical Physics, 2016, 43, 5635-5646.	1.6	92
5	CBCT correction using a cycle-consistent generative adversarial network and unpaired training to enable photon and proton dose calculation. Physics in Medicine and Biology, 2019, 64, 225004.	1.6	79
6	Comparing Unet training with three different datasets to correct CBCT images for prostate radiotherapy dose calculations. Physics in Medicine and Biology, 2019, 64, 035011.	1.6	56
7	Phantom based evaluation of CT to CBCT image registration for proton therapy dose recalculation. Physics in Medicine and Biology, 2015, 60, 595-613.	1.6	49
8	Evaluation of proton and photon dose distributions recalculated on 2D and 3D Unet-generated pseudoCTs from T1-weighted MR head scans. Acta OncolÃ³gica, 2019, 58, 1429-1434.	0.8	33
9	Fast Biological Modeling for Voxel-based Heavy Ion Treatment Planning Using the Mechanistic Repair-Misrepair-Fixation Model and Nuclear Fragment Spectra. International Journal of Radiation Oncology Biology Physics, 2015, 93, 557-568.	0.4	32
10	Decomposing a prior-CT-based cone-beam CT projection correction algorithm into scatter and beam hardening components. Physics and Imaging in Radiation Oncology, 2017, 3, 49-52.	1.2	32
11	Dosimetric comparison of MR-linac-based IMRT and conventional VMAT treatment plans for prostate cancer. Radiation Oncology, 2021, 16, 133.	1.2	23
12	Realâ€time 4DMRIâ€based internal target volume definition for moving lung tumors. Medical Physics, 2020, 47, 1431-1442.	1.6	20
13	Dose-guided patient positioning in proton radiotherapy using multicriteria-optimization. Zeitschrift Fur Medizinische Physik, 2019, 29, 216-228.	0.6	19
14	Impact of interpatient variability on organ dose estimates according to MIRD schema: Uncertainty and varianceâ€based sensitivity analysis. Medical Physics, 2018, 45, 3391-3403.	1.6	18
15	Feasibility of 4DCBCT-based proton dose calculation: An ex vivo porcine lung phantom study. Zeitschrift Fur Medizinische Physik, 2019, 29, 249-261.	0.6	16
16	Multi-criterial patient positioning based on dose recalculation on scatter-corrected CBCT images. Radiotherapy and Oncology, 2017, 125, 464-469.	0.3	15
17	A Monte-Carlo study to assess the effect of 1.5 T magnetic fields on the overall robustness of pencil-beam scanning proton radiotherapy plans for prostate cancer. Physics in Medicine and Biology, 2017, 62, 8470-8482.	1.6	15
18	Porcine lung phantom-based validation of estimated 4D-MRI using orthogonal cine imaging for low-field MR-Linacs. Physics in Medicine and Biology, 2021, 66, 055006.	1.6	15

#	Article	IF	Citations
19	Method to quickly and accurately calculate absorbed dose from therapeutic and stray photon exposures throughout the entire body in individual patients. Medical Physics, 2020, 47, 2254-2266.	1.6	11
20	The dosimetric impact of replacing the TG-43 algorithm by model based dose calculation for liver brachytherapy. Radiation Oncology, 2020, 15, 60.	1.2	10
21	Comparison of planned dose on different CT image sets to fourâ€dimensional Monte Carlo dose recalculation using the patient's actual breathing trace for lung stereotactic body radiation therapy. Medical Physics, 2019, 46, 3268-3277.	1.6	9
22	Deformable image registration of the treatment planning CT with proton radiographies in perspective of adaptive proton therapy. Physics in Medicine and Biology, 2021, 66, 045008.	1.6	9
23	Measurementâ€based range evaluation for quality assurance of CBCTâ€based dose calculations in adaptive proton therapy. Medical Physics, 2021, 48, 4148-4159.	1.6	8
24	EUDâ€based biological optimization for carbon ion therapy. Medical Physics, 2015, 42, 6248-6257.	1.6	7
25	Application of varianceâ€based uncertainty and sensitivity analysis to biological modeling in carbon ion treatment plans. Medical Physics, 2019, 46, 437-447.	1.6	7
26	Anthropomorphic lung phantom based validation of in-room proton therapy 4D-CBCT image correction for dose calculation. Zeitschrift Fur Medizinische Physik, 2020, 32, 74-74.	0.6	7
27	Modeling RBEâ€weighted dose variations in irregularly moving abdominal targets treated with carbon ion beams. Medical Physics, 2020, 47, 2768-2778.	1.6	7
28	Patient-specific CT calibration based on ion radiography for different detector configurations in ¹H, ⁴He and ¹²C ion pencil beam scanning. Physics in Medicine and Biology, 2020, 65, 245014.	1.6	7
29	A novel method for interactive multi-objective dose-guided patient positioning. Physics in Medicine and Biology, 2017, 62, 165-185.	1.6	6
30	Validation of proton dose calculation on scatter corrected 4D cone beam computed tomography using a porcine lung phantom. Physics in Medicine and Biology, 2021, 66, 175022.	1.6	6
31	Varianceâ€based sensitivity analysis for uncertainties in proton therapy: A framework to assess the effect of simultaneous uncertainties in range, positioning, and RBE model predictions on RBEâ€weighted dose distributions. Medical Physics, 2021, 48, 805-818.	1.6	5
32	Combining inter-observer variability, range and setup uncertainty in a variance-based sensitivity analysis for proton therapy. Physics and Imaging in Radiation Oncology, 2021, 20, 117-120.	1.2	5
33	X-ray CT adaptation based on a 2Dâ€“3D deformable image registration framework using simulated in-room proton radiographies. Physics in Medicine and Biology, 2022, 67, 045003.	1.6	4
34	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. Physics in Medicine and Biology, 2021, 66, 055005.	1.6	3
35	Evaluation of an anthropomorphic ion chamber and 3D gel dosimetry head phantom at a 0.35 T MR-linac using separate 1.5 T MR-scanners for gel readout. Zeitschrift Fur Medizinische Physik, 2022, , .	0.6	3
36	A 2D-3D Deformable Image Registration Framework for Proton Radiographies in Adaptive Radiation Therapy. , 2019, , .		2

#	Article	IF	Citations
37	Dosimetric impact of geometric distortions in an MRI-only proton therapy workflow for lung, liver and pancreas. Zeitschrift Fur Medizinische Physik, 2020, , .	0.6	2
38	A patient-specific hybrid phantom for calculating radiation dose and equivalent dose to the whole body. Physics in Medicine and Biology, 2022, 67, 035005.	1.6	2
39	CyberKnife radiation therapy as a platform for translational mouse studies. International Journal of Radiation Biology, 2021, 97, 1261-1269.	1.0	1
40	Abstract ID: 85 Investigating the physics of a CBCT projection shading correction based on a prior CT. Physica Medica, 2017, 42, 17-18.	0.4	0
41	Joint Dose Minimization and Variance Optimization for Fluence-Modulated Proton CT. , 2020, , .		0