

# Jürgen Breede Baltzer Petersen

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

786  
citations

471061  
17  
h-index

525886  
27  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of proton stopping power ratio estimation based on dual energy CT using fresh tissue samples. <i>Physics in Medicine and Biology</i> , 2018, 63, 015012.	1.6	54
2	A simulation study on proton computed tomography (CT) stopping power accuracy using dual energy CT scans as benchmark. <i>Acta Oncologica</i> , 2015, 54, 1638-1642.	0.8	53
3	Inter-centre variability of CT-based stopping-power prediction in particle therapy: Survey-based evaluation. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 25-30.	1.2	53
4	Normal liver tissue sparing by intensity-modulated proton stereotactic body radiotherapy for solitary liver tumours. <i>Acta Oncologica</i> , 2011, 50, 823-828.	0.8	52
5	The Danish Head and Neck Cancer Group (DAHANCA) 2020 radiotherapy guidelines. <i>Radiotherapy and Oncology</i> , 2020, 151, 149-151.	0.3	49
6	Consequences of introducing geometric GTV to CTV margin expansion in DAHANCA contouring guidelines for head and neck radiotherapy. <i>Radiotherapy and Oncology</i> , 2018, 126, 43-47.	0.3	48
7	Kilovoltage intrafraction motion monitoring and target dose reconstruction for stereotactic volumetric modulated arc therapy of tumors in the liver. <i>Radiotherapy and Oncology</i> , 2014, 111, 424-430.	0.3	47
8	A robust empirical parametrization of proton stopping power using dual energy CT. <i>Medical Physics</i> , 2016, 43, 5547-5560.	1.6	45
9	Local recurrences after curative IMRT for HNSCC: Effect of different GTV to high-dose CTV margins. <i>Radiotherapy and Oncology</i> , 2018, 126, 48-55.	0.3	41
10	Comparison of single and dual energy CT for stopping power determination in proton therapy of head and neck cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 14-19.	1.2	28
11	External validation of a normal tissue complication probability model for radiation-induced hypothyroidism in an independent cohort. <i>Acta Oncologica</i> , 2015, 54, 1301-1309.	0.8	24
12	Quality assurance of radiation therapy for head and neck cancer patients treated in DAHANCA 10 randomized trial. <i>Acta Oncologica</i> , 2015, 54, 1669-1673.	0.8	23
13	A method for evaluation of proton plan robustness towards inter-fractional motion applied to pelvic lymph node irradiation. <i>Acta Oncologica</i> , 2015, 54, 1643-1650.	0.8	20
14	Biological dose and complication probabilities for the rectum and bladder based on linear energy transfer distributions in spot scanning proton therapy of prostate cancer. <i>Acta Oncologica</i> , 2017, 56, 1413-1419.	0.8	19
15	Temperature and temporal dependence of the optical response for a radiochromic dosimeter. <i>Medical Physics</i> , 2012, 39, 7232-7236.	1.6	18
16	Impact of bowel gas and body outline variations on total accumulated dose with intensity-modulated proton therapy in locally advanced cervical cancer patients. <i>Acta Oncologica</i> , 2017, 56, 1472-1478.	0.8	18
17	Chemically tuned linear energy transfer dependent quenching in a deformable, radiochromic 3D dosimeter. <i>Physics in Medicine and Biology</i> , 2017, 62, N73-N89.	1.6	17
18	Improved proton computed tomography by dual modality image reconstruction. <i>Medical Physics</i> , 2014, 41, 031904.	1.6	16

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19	An adaptive radiotherapy planning strategy for bladder cancer using deformation vector fields. <i>Radiotherapy and Oncology</i> , 2014, 112, 371-375.	0.3	15
20	Dose-response of deformable radiochromic dosimeters for spot scanning proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 134-137.	1.2	15
21	Technical Note: Improving proton stopping power ratio determination for a deformable silicone-based 3D dosimeter using dual energy CT. <i>Medical Physics</i> , 2016, 43, 2780-2784.	1.6	11
22	Theoretical and experimental analysis of photon counting detector CT for proton stopping power prediction. <i>Medical Physics</i> , 2018, 45, 5186-5196.	1.6	11
23	Pelvic insufficiency fractures, dose volume parameters and plan optimization after radiotherapy for rectal cancer. <i>Clinical and Translational Radiation Oncology</i> , 2019, 19, 72-76.	0.9	11
24	Empirical quenching correction in radiochromic silicone-based three-dimensional dosimetry of spot-scanning proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 18, 11-18.	1.2	11
25	Impact of curing conditions on basic dosimetric properties of silicone-based radiochromic dosimeters for photon and proton irradiation. <i>Acta Oncologica</i> , 2022, 61, 264-268.	0.8	10
26	Pseudoprogression after proton radiotherapy for pediatric low grade glioma. <i>Acta Oncologica</i> , 2015, 54, 1701-1702.	0.8	9
27	Evaluation of an a priori scatter correction algorithm for cone-beam computed tomography based range and dose calculations in proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 89-94.	1.2	9
28	2-[18F]fluoro-2-deoxy-d-galactose positron emission tomography guided functional treatment planning of stereotactic body radiotherapy of liver tumours. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 1, 28-33.	1.2	8
29	On-line dose-guidance to account for inter-fractional motion during proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 9, 7-13.	1.2	7
30	Dose response of three-dimensional silicone-based radiochromic dosimeters for photon irradiation in the presence of a magnetic field. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 81-84.	1.2	7
31	Evaluating the influence of organ motion during photon vs. proton therapy for locally advanced prostate cancer using biological models. <i>Acta Oncologica</i> , 2017, 56, 839-845.	0.8	6
32	Validation of fast motion-including dose reconstruction for proton scanning therapy in the liver. <i>Physics in Medicine and Biology</i> , 2018, 63, 225021.	1.6	5
33	Functional image-guided dose escalation in gliomas using of state-of-the-art photon vs. proton therapy. <i>Acta Oncologica</i> , 2017, 56, 826-831.	0.8	4
34	A biological modelling based comparison of radiotherapy plan robustness using photons vs protons for focal prostate boosting. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 101-105.	1.2	4
35	Robustness of elective lymph node target coverage with shrinking Planning Target Volume margins in external beam radiotherapy of locally advanced cervical cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 11, 9-15.	1.2	4
36	Hepatic regeneration following radiation-induced liver injury is associated with increased hepatobiliary secretion measured by PET in Göttingen minipigs. <i>Scientific Reports</i> , 2020, 10, 10858.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Impact of interfractional target motion in locally advanced cervical cancer patients treated with spot scanning proton therapy using an internal target volume strategy. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 17, 84-90.	1.2	4
38	Investigation of nanoscale structures by small-angle X-ray scattering in a radiochromic dosimeter. <i>RSC Advances</i> , 2014, 4, 9152.	1.7	3
39	Two compound techniques for total body irradiation. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2022, 21, 1-7.	0.6	2
40	Towards range-guidance in proton therapy to detect organ motion-induced dose degradations. <i>Biomedical Physics and Engineering Express</i> , 2022, , .	0.6	1