Barbara KnÃ¤usl

List of Publications by Year
in descending order

27	583	623734	610901
papers	citations	14 h-index	24 g-index

27	27	27	927
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dosimetric characteristics of 6 and 10MV unflattened photon beams. Radiotherapy and Oncology, 2009, 93, 141-146.	0.6	154
2	Can particle beam therapy be improved using helium ions? â€“ a planning study focusing on pediatric patients. Acta OncolÃ³gica, 2016, 55, 751-759.	1.8	47
3	Clinical implementations of 4D pencil beam scanned particle therapy: Report on the 4D treatment planning workshop 2016 and 2017. Physica Medica, 2018, 54, 121-130.	0.7	34
4	ART for head and neck patients: On the difference between VMAT and IMPT. Acta OncolÃ³gica, 2015, 54, 1166-1174.	1.8	31
5	Influence of PET reconstruction para meters on the TrueX algorithm. Nuklearmedizin - NuclearMedicine, 2013, 52, 28-35.	0.7	30
6	PET based volume segmentation with emphasis on the iterative TrueX algorithm. Zeitschrift Fur Medizinische Physik, 2012, 22, 29-39.	1.5	27
7	PET image segmentation using a Gaussian mixture model and Markov random fields. EJNMMI Physics, 2015, 2, 9.	2.7	26
8	Feasibility of dominant intraprostatic lesion boosting using advanced photon-, proton- or brachytherapy. Radiotherapy and Oncology, 2015, 117, 509-514.	0.6	25
9	Advanced Radiation DOSimetry phantom (ARDOS): a versatile breathing phantom for 4D radiation therapy and medical imaging. Physics in Medicine and Biology, 2017, 62, 8136-8153.	3.0	23
10	Can treatment of pediatric Hodgkinâ€™s lymphoma be improved by PET imaging and proton therapy?. Strahlentherapie Und Onkologie, 2013, 189, 54-61.	2.0	22
11	Robustness of IMPT treatment plans with respect to inter-fractional set-up uncertainties: Impact of various beam arrangements for cranial targets. Acta OncolÃ³gica, 2013, 52, 570-579.	1.8	16
12	Novel radiotherapy techniques for involved-field and involved-node treatment of mediastinal Hodgkin lymphoma. Strahlentherapie Und Onkologie, 2014, 190, 864-871.	2.0	16
13	Multicenter evaluation of different target volume delineation concepts in pediatric Hodgkinâ€™s lymphoma. Strahlentherapie Und Onkologie, 2012, 188, 1025-1030.	2.0	15
14	Technical Note: Fullyâ€automated analysis of Jaszczak phantom measurements as part of routine <scp>SPECT</scp> quality control. Medical Physics, 2017, 44, 1638-1645.	3.0	15
15	Experimental benchmarking of RayStation proton dose calculation algorithms inside and outside the target region in heterogeneous phantom geometries. Physica Medica, 2020, 76, 182-193.	0.7	15
16	Additively Manufactured Patient-Specific Anthropomorphic Thorax Phantom With Realistic Radiation Attenuation Properties. Frontiers in Bioengineering and Biotechnology, 2020, 8, 385.	4.1	14
17	Dynamic lung phantom commissioning for 4D dose assessment in proton therapy. Physics in Medicine and Biology, 2019, 64, 235001.	3.0	11
18	Attenuation correction of a flat table top for radiation therapy in hybrid PET/MR using CT- and 68Ge/68Ga transmission scan-based Î¼-maps. Physica Medica, 2019, 65, 76-83.	0.7	10

#	Article	IF	Citations
19	Phantom design and dosimetric characterization for multiple simultaneous cell irradiations with active pencil beam scanning. Radiation and Environmental Biophysics, 2019, 58, 563-573.	1.4	9
20	An MRI sequence independent convolutional neural network for synthetic head CT generation in proton therapy. Zeitschrift Fur Medizinische Physik, 2022, 32, 218-227.	1.5	9
21	Time-resolved dosimetry for validation of 4D dose calculation in PBS proton therapy. Physics in Medicine and Biology, 2020, 65, 125015.	3.0	7
22	Dose calculation accuracy in particle therapy: Comparing carbon ions with protons. Medical Physics, 2021, 48, 7333-7345.	3.0	7
23	Investigation of the Bragg peak degradation caused by homogeneous and heterogeneous lung tissue substitutes: proton beam experiments and comparison to current clinical dose calculation. Physics in Medicine and Biology, 2020, 65, 245036.	3.0	6
24	The Influence of Motion on the Delivery Accuracy When Comparing Actively Scanned Carbon Ions versus Protons at a Synchrotron-Based Radiotherapy Facility. Cancers, 2022, 14, 1788.	3.7	6
25	A novel bone suppression algorithm in intensityâ€based 2D/3D image registration for realâ€time tumor motion monitoring: Development and phantomâ€based validation. Medical Physics, 2022, 49, 5182-5194.	3.0	5
26	Assessment of improved organ at risk sparing for meningioma: Light ion beam therapy as boost versus sole treatment option. Radiotherapy and Oncology, 2014, 111, 451-456.	0.6	3
27	â€œLabel and goâ€•â€“ A fast and easy radiolabelling method for pellets. Applied Radiation and Isotopes, 2010, 68, 399-403.	1.5	0