

Barbara Knäusel

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

583
citations

623734

14
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

927
citing authors

#	ARTICLE	IF	CITATIONS
1	The Influence of Motion on the Delivery Accuracy When Comparing Actively Scanned Carbon Ions versus Protons at a Synchrotron-Based Radiotherapy Facility. <i>Cancers</i> , 2022, 14, 1788.	3.7	6
2	An MRI sequence independent convolutional neural network for synthetic head CT generation in proton therapy. <i>Zeitschrift Fur Medizinische Physik</i> , 2022, 32, 218-227.	1.5	9
3	A novel bone suppression algorithm in intensity-based 2D/3D image registration for real-time tumor motion monitoring: Development and phantom-based validation. <i>Medical Physics</i> , 2022, 49, 5182-5194.	3.0	5
4	Dose calculation accuracy in particle therapy: Comparing carbon ions with protons. <i>Medical Physics</i> , 2021, 48, 7333-7345.	3.0	7
5	Experimental benchmarking of RayStation proton dose calculation algorithms inside and outside the target region in heterogeneous phantom geometries. <i>Physica Medica</i> , 2020, 76, 182-193.	0.7	15
6	Time-resolved dosimetry for validation of 4D dose calculation in PBS proton therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 125015.	3.0	7
7	Additively Manufactured Patient-Specific Anthropomorphic Thorax Phantom With Realistic Radiation Attenuation Properties. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 385.	4.1	14
8	Investigation of the Bragg peak degradation caused by homogeneous and heterogeneous lung tissue substitutes: proton beam experiments and comparison to current clinical dose calculation. <i>Physics in Medicine and Biology</i> , 2020, 65, 245036.	3.0	6
9	Dynamic lung phantom commissioning for 4D dose assessment in proton therapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 235001.	3.0	11
10	Attenuation correction of a flat table top for radiation therapy in hybrid PET/MR using CT- and $^{68}\text{Ge}/^{68}\text{Ga}$ transmission scan-based μCT -maps. <i>Physica Medica</i> , 2019, 65, 76-83.	0.7	10
11	Phantom design and dosimetric characterization for multiple simultaneous cell irradiations with active pencil beam scanning. <i>Radiation and Environmental Biophysics</i> , 2019, 58, 563-573.	1.4	9
12	Clinical implementations of 4D pencil beam scanned particle therapy: Report on the 4D treatment planning workshop 2016 and 2017. <i>Physica Medica</i> , 2018, 54, 121-130.	0.7	34
13	Technical Note: Fully-automated analysis of Jaszczak phantom measurements as part of routine SPECT quality control. <i>Medical Physics</i> , 2017, 44, 1638-1645.	3.0	15
14	Advanced Radiation DOSimetry phantom (ARDOS): a versatile breathing phantom for 4D radiation therapy and medical imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, 8136-8153.	3.0	23
15	Can particle beam therapy be improved using helium ions? â€” a planning study focusing on pediatric patients. <i>Acta Oncologica</i> , 2016, 55, 751-759.	1.8	47
16	PET image segmentation using a Gaussian mixture model and Markov random fields. <i>EJNMMI Physics</i> , 2015, 2, 9.	2.7	26
17	Feasibility of dominant intraprostatic lesion boosting using advanced photon-, proton- or brachytherapy. <i>Radiotherapy and Oncology</i> , 2015, 117, 509-514.	0.6	25
18	ART for head and neck patients: On the difference between VMAT and IMPT. <i>Acta Oncologica</i> , 2015, 54, 1166-1174.	1.8	31

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19	Novel radiotherapy techniques for involved-field and involved-node treatment of mediastinal Hodgkin lymphoma. <i>Strahlentherapie Und Onkologie</i> , 2014, 190, 864-871.	2.0	16
20	Assessment of improved organ at risk sparing for meningioma: Light ion beam therapy as boost versus sole treatment option. <i>Radiotherapy and Oncology</i> , 2014, 111, 451-456.	0.6	3
21	Can treatment of pediatric Hodgkin's lymphoma be improved by PET imaging and proton therapy?. <i>Strahlentherapie Und Onkologie</i> , 2013, 189, 54-61.	2.0	22
22	Robustness of IMPT treatment plans with respect to inter-fractional set-up uncertainties: Impact of various beam arrangements for cranial targets. <i>Acta Oncologica</i> , 2013, 52, 570-579.	1.8	16
23	Influence of PET reconstruction parameters on the TrueX algorithm. <i>Nuklearmedizin - NuclearMedicine</i> , 2013, 52, 28-35.	0.7	30
24	Multicenter evaluation of different target volume delineation concepts in pediatric Hodgkin's lymphoma. <i>Strahlentherapie Und Onkologie</i> , 2012, 188, 1025-1030.	2.0	15
25	PET based volume segmentation with emphasis on the iterative TrueX algorithm. <i>Zeitschrift Fur Medizinische Physik</i> , 2012, 22, 29-39.	1.5	27
26	"Label and go" A fast and easy radiolabelling method for pellets. <i>Applied Radiation and Isotopes</i> , 2010, 68, 399-403.	1.5	0
27	Dosimetric characteristics of 6 and 10MV unflattened photon beams. <i>Radiotherapy and Oncology</i> , 2009, 93, 141-146.	0.6	154