

Oliver Jäckel

List of Publications by Year in descending order

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Version: 2024-02-01

286
papers

9,829
citations

31949

53
h-index

49868

87
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292
all docs

292
docs citations

292
times ranked

5402
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting perturbations of a radiation field inside a head-sized phantom exposed to therapeutic carbon-ion beams through charged-fragment tracking. <i>Medical Physics</i> , 2022, 49, 1776-1792.	1.6	2
2	Assessment of secondary neutrons in particle therapy by Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2022, 67, 015008.	1.6	8
3	Direct determination of $k_{Q, \text{Farmer}}$ for Farmer-type ionization chambers in a clinical scanned carbon-ion beam using water calorimetry. <i>Physics in Medicine and Biology</i> , 2022, 67, 049401.	1.6	4
4	The history of ion beam therapy in Germany. <i>Zeitschrift Fur Medizinische Physik</i> , 2022, 32, 6-22.	0.6	12
5	An abdominal phantom with anthropomorphic organ motion and multimodal imaging contrast for MR-guided radiotherapy. <i>Physics in Medicine and Biology</i> , 2022, 67, 045009.	1.6	5
6	Biosensor for deconvolution of individual cell fate in response to ion beam irradiation. <i>Cell Reports Methods</i> , 2022, 2, 100169.	1.4	1
7	Experimental Comparison of Fiducial Markers Used in Proton Therapy: Study of Different Imaging Modalities and Proton Fluence Perturbations Measured With CMOS Pixel Sensors. <i>Frontiers in Oncology</i> , 2022, 12, 830080.	1.3	2
8	Intensity threshold variation method in the post-irradiation analysis of Fluorescent Nuclear Track Detectors for neutron dosimetry. <i>Radiation Physics and Chemistry</i> , 2022, 200, 110257.	1.4	2
9	Experimental helium-beam radiography with a high-energy beam: Water-equivalent thickness calibration and first image-quality results. <i>Medical Physics</i> , 2022, 49, 5347-5362.	1.6	2
10	Improved risk stratification via integration of radiomics and dosiomics features in patients with recurrent high-grade glioma undergoing carbon ion radiotherapy (CIRT).. <i>Journal of Clinical Oncology</i> , 2021, 39, 2043-2043.	0.8	0
11	Quality assurance method for monitoring of lateral pencil beam positions in scanned carbon-ion radiotherapy using tracking of secondary ions. <i>Medical Physics</i> , 2021, 48, 4411-4424.	1.6	2
12	Triple channel analysis of Gafchromic EBT3 irradiated with clinical carbon-ion beams. <i>Physica Medica</i> , 2021, 87, 123-130.	0.4	4
13	Water calorimetry-based $k_{Q, \text{Farmer}}$ factors for Farmer-type ionization chambers in the SOBP of a carbon-ion beam. <i>Physics in Medicine and Biology</i> , 2021, 66, 145012.	1.6	8
14	Efficient uncertainty quantification for Monte Carlo dose calculations using importance (re-)weighting. <i>Physics in Medicine and Biology</i> , 2021, 66, .	1.6	2
15	Three-voltage linear method to determine ion recombination in proton and light-ion beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 045015.	1.6	16
16	Upgrading an Integrating Carbon-Ion Transmission Imaging System With Active Scanning Beam Delivery Toward Low Dose Ion Imaging. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 262-268.	2.7	8
17	Physical advantages of particles: protons and light ions. <i>British Journal of Radiology</i> , 2020, 93, 20190428.	1.0	25
18	2D range modulator for high-precision water calorimetry in scanned carbon-ion beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 215003.	1.6	8

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19	Mapping the Relative Biological Effectiveness of Proton, Helium and Carbon Ions with High-Throughput Techniques. <i>Cancers</i> , 2020, 12, 3658.	1.7	13
20	Beam characterization at NSRL for radiobiological experimentsâ€”phase 1. <i>Journal of Instrumentation</i> , 2020, 15, T10004-T10004.	0.5	1
21	Dosimetric Impact of the Positional Imaging Frequency for Hypofractionated Prostate Radiotherapy â€”A Voxel-by-Voxel Analysis. <i>Frontiers in Oncology</i> , 2020, 10, 564068.	1.3	4
22	MR-guided proton therapy: a review and a preview. <i>Radiation Oncology</i> , 2020, 15, 129.	1.2	85
23	Analytical modeling of depth-dose degradation in heterogeneous lung tissue for intensity-modulated proton therapy planning. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 14, 32-38.	1.2	6
24	PO-1653: Dosimetric effects of interfractional variations in prostate cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2020, 152, S907.	0.3	0
25	Dosimetric Impact of Interfractional Variations in Prostate Cancer Radiotherapyâ€”Implications for Imaging Frequency and Treatment Adaptation. <i>Frontiers in Oncology</i> , 2019, 9, 940.	1.3	20
26	Battle of the elements: readers' choice. <i>Physics World</i> , 2019, 32, 15-16.	0.0	0
27	RBE-weighted doses in target volumes of chordoma and chondrosarcoma patients treated with carbon ion radiotherapy: Comparison of local effect models I and IV. <i>Radiotherapy and Oncology</i> , 2019, 141, 234-238.	0.3	2
28	Methodology paper: a novel phantom setup for commissioning of scanned ion beam delivery and TPS. <i>Radiation Oncology</i> , 2019, 14, 77.	1.2	6
29	Dosimetric Impact of Interfractional Variations for Post-prostatectomy Radiotherapy to the Prostatic Fossaâ€”Relevance for the Frequency of Position Verification Imaging and Treatment Adaptation. <i>Frontiers in Oncology</i> , 2019, 9, 1191.	1.3	5
30	Investigation of single carbon ion fragmentation in water and PMMA for hadron therapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 055018.	1.6	6
31	High control rates of protonâ€”and carbonâ€”ionâ€”beam treatment with intensityâ€”modulated active raster scanning in 101 patients with skull base chondrosarcoma at the Heidelberg Ion Beam Therapy Center. <i>Cancer</i> , 2018, 124, 2036-2044.	2.0	52
32	Doseâ€”response curves for MRI-detected radiation-induced temporal lobe reactions in patients after proton and carbon ion therapy: Does the same RBE-weighted dose lead to the same biological effect?. <i>Radiotherapy and Oncology</i> , 2018, 128, 109-114.	0.3	10
33	Prospective feasibility analysis of a novel off-line approach for MR-guided radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2018, 194, 425-434.	1.0	23
34	Proof of principle of heliumâ€”beam radiography using silicon pixel detectors for energy deposition measurement, identification, and tracking of single ions. <i>Medical Physics</i> , 2018, 45, 817-829.	1.6	22
35	Clinical outcome after particle therapy for meningiomas of the skull base: toxicity and local control in patients treated with active rasterscanning. <i>Radiation Oncology</i> , 2018, 13, 54.	1.2	37
36	Influence of ⁶⁸ Ga-DOTATOC on sparing of normal tissue for radiation therapy of skull base meningioma: differential impact of photon and proton radiotherapy. <i>Radiation Oncology</i> , 2018, 13, 58.	1.2	25

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37	SP-0219: EPTN WP2: dosimetry and quality assurance. Radiotherapy and Oncology, 2018, 127, S118.	0.3	0
38	PO-0824: Dose effects by interfractional variability of tumor and OAR on the example of prostate-Ca-patients. Radiotherapy and Oncology, 2018, 127, S430.	0.3	0
39	EP-1735: Pixelated semiconductor detectors for next generation imaging in ion beam radiotherapy. Radiotherapy and Oncology, 2018, 127, S928-S929.	0.3	0
40	Cost-Effectiveness of Carbon Ion Radiation Therapy for Skull Base Chordoma Utilizing Long-Term (10-Year) Outcome Data. Anticancer Research, 2018, 38, 4853-4858.	0.5	13
41	Helium ion beam imaging for image guided ion radiotherapy. Radiation Oncology, 2018, 13, 109.	1.2	12
42	Significance of intra-fractional motion for pancreatic patients treated with charged particles. Radiation Oncology, 2018, 13, 120.	1.2	20
43	Evaluation of particle radiotherapy for the re-irradiation of recurrent intracranial meningioma. Radiation Oncology, 2018, 13, 86.	1.2	35
44	Bestrahlungsverfahren. , 2018, , 525-577.		0
45	A phenomenological relative biological effectiveness approach for proton therapy based on an improved description of the mixed radiation field. Physics in Medicine and Biology, 2017, 62, 1378-1395.	1.6	42
46	Generation of synthetic CT data using patient specific daily MR image data and image registration. Physics in Medicine and Biology, 2017, 62, 1358-1377.	1.6	38
47	Direct determination of k_Q for Farmer-type ionization chambers in a clinical scanned carbon ion beam using water calorimetry. Physics in Medicine and Biology, 2017, 62, 2033-2054.	1.6	17
48	Internal target volume margins for liver tumours treated with gated scanned carbon-ion radiotherapy. Biomedical Physics and Engineering Express, 2017, 3, 015029.	0.6	2
49	Visualization of air and metal inhomogeneities in phantoms irradiated by carbon ion beams using prompt secondary ions. Physica Medica, 2017, 38, 140-147.	0.4	7
50	Application of fluorescent nuclear track detectors for cellular dosimetry. Physics in Medicine and Biology, 2017, 62, 2719-2740.	1.6	14
51	Ion recombination correction factor in scanned light-ion beams for absolute dose measurement using plane-parallel ionisation chambers. Physics in Medicine and Biology, 2017, 62, 5365-5382.	1.6	19
52	Development of the open-source dose calculation and optimization toolkit matRad. Medical Physics, 2017, 44, 2556-2568.	1.6	178
53	STED microscopy visualizes energy deposition of single ions in a solid-state detector beyond diffraction limit. Physics in Medicine and Biology, 2017, 62, N180-N190.	1.6	10
54	Investigation of mixed ion fields in the forward direction for 220.5 MeV/u helium ion beams: comparison between water and PMMA targets. Physics in Medicine and Biology, 2017, 62, 8003-8024.	1.6	11

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55	Optimization of Monte Carlo particle transport parameters and validation of a novel high throughput experimental setup to measure the biological effects of particle beams. <i>Medical Physics</i> , 2017, 44, 6061-6073.	1.6	20
56	PV-0422: Direct determination of kQ in a clinical carbon ion beam using water calorimetry. <i>Radiotherapy and Oncology</i> , 2017, 123, S223.	0.3	0
57	EP-1464: Investigation on beam width tolerances for proton pencil beam scanning. <i>Radiotherapy and Oncology</i> , 2017, 123, S781-S782.	0.3	0
58	PO-0787: A compact and complete model for Bragg peak degradation in lung tissue. <i>Radiotherapy and Oncology</i> , 2017, 123, S417-S418.	0.3	0
59	Planning strategies for inter-fractional robustness in pancreatic patients treated with scanned carbon therapy. <i>Radiation Oncology</i> , 2017, 12, 94.	1.2	19
60	Overcoming hypoxia-induced tumor radioresistance in non-small cell lung cancer by targeting DNA-dependent protein kinase in combination with carbon ion irradiation. <i>Radiation Oncology</i> , 2017, 12, 208.	1.2	75
61	Effective radiotherapeutic treatment intensification in patients with pancreatic cancer: higher doses alone, higher RBE or both?. <i>Radiation Oncology</i> , 2017, 12, 203.	1.2	9
62	A Novel Method for Fragmentation Studies in Particle Therapy: Principles of Ion Identification. <i>International Journal of Particle Therapy</i> , 2017, 3, 439-449.	0.9	11
63	Next generation multi-scale biophysical characterization of high precision cancer particle radiotherapy using clinical proton, helium-, carbon- and oxygen ion beams. <i>Oncotarget</i> , 2016, 7, 56676-56689.	0.8	72
64	Data-driven RBE parameterization for helium ion beams. <i>Physics in Medicine and Biology</i> , 2016, 61, 888-905.	1.6	22
65	Fluence-based dosimetry of proton and heavier ion beams using single track detectors. <i>Physics in Medicine and Biology</i> , 2016, 61, 1021-1040.	1.6	18
66	Biologically optimized helium ion plans: calculation approach and its <i>in vitro</i> validation. <i>Physics in Medicine and Biology</i> , 2016, 61, 4283-4299.	1.6	57
67	A 3D feature point tracking method for ion radiation. <i>Physics in Medicine and Biology</i> , 2016, 61, 4088-4104.	1.6	17
68	Technical Note: Radiological properties of tissue surrogates used in a multimodality deformable pelvic phantom for MR-guided radiotherapy. <i>Medical Physics</i> , 2016, 43, 908-916.	1.6	48
69	Registration procedure for spatial correlation of physical energy deposition of particle irradiation and cellular response utilizing cell-fluorescent ion track hybrid detectors. <i>Physics in Medicine and Biology</i> , 2016, 61, N441-N460.	1.6	11
70	Correlation of Particle Traversals with Clonogenic Survival Using Cell-Fluorescent Ion Track Hybrid Detector. <i>Radiotherapy and Oncology</i> , 2016, 118, S33-S34.	0.3	0
71	Range assignment of protons in 18-oxygenated dosimetry gel using MR-PET imaging. <i>Physica Medica</i> , 2016, 32, 317.	0.4	0
72	EP-1848: Dual-energy CT for range prediction in proton and ion therapy. <i>Radiotherapy and Oncology</i> , 2016, 119, S869-S870.	0.3	0

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73	Tomographic imaging with carbon ion beams. , 2016, , .		2
74	A novel method for assessment of nuclear interactions of therapeutic helium-ion beams using the Timepix detector. Radiotherapy and Oncology, 2016, 118, S45.	0.3	1
75	High-LET radiotherapy for adenoid cystic carcinoma of the head and neck: 15 yearsâ€™ experience with raster-scanned carbon ion therapy. Radiotherapy and Oncology, 2016, 118, 272-280.	0.3	77
76	Radiation Therapy with Protons and Heavy Ions. , 2016, , 127-137.		1
77	Optimization of Carbon Ion Treatment Plans by Integrating Tissue Specific \hat{I}_{\pm}/\hat{I}^2 -Values for Patients with Non-Resectable Pancreatic Cancer. PLoS ONE, 2016, 11, e0164473.	1.1	5
78	Evaluation of Dosimetric Robustness of Carbon Ion Boost Therapy for Anal Carcinoma. International Journal of Particle Therapy, 2016, 3, 382-391.	0.9	1
79	WE-H-BRA-06: Experimental Investigation of RBE for Lung Cancer Cell Lines as a Function of Dose and LET in Proton, Helium and Carbon Beams. Medical Physics, 2016, 43, 3843-3844.	1.6	0
80	SP-0219: Risk of normal tissue injury from protons and heavy ions. Radiotherapy and Oncology, 2015, 115, S110-S111.	0.3	0
81	An advanced image processing method to improve the spatial resolution of ion radiographies. Physics in Medicine and Biology, 2015, 60, 8525-8547.	1.6	24
82	PO-0861: Fluence verification for patient specific quality assurance in ion beam therapy. Use of an a-Si flat panel detector. Radiotherapy and Oncology, 2015, 115, S438.	0.3	0
83	Optimization of carbon ion and proton treatment plans using the raster-scanning technique for patients with unresectable pancreatic cancer. Radiation Oncology, 2015, 10, 237.	1.2	15
84	Combined intensityâ€modulated radiotherapy plus rasterâ€scanned carbon ion boost for advanced adenoid cystic carcinoma of the head and neck results in superior locoregional control and overall survival. Cancer, 2015, 121, 3001-3009.	2.0	81
85	Correlation of Particle Traversals with Clonogenic Survival Using Cell-Fluorescent Ion Track Hybrid Detector. Frontiers in Oncology, 2015, 5, 275.	1.3	9
86	A motorized solid-state phantom for patient-specific dose verification in ion beam radiotherapy. Physics in Medicine and Biology, 2015, 60, 7151-7163.	1.6	7
87	Reirradiation Using Carbon Ions in Patients with Locally Recurrent Rectal Cancer at HIT: First Results. Annals of Surgical Oncology, 2015, 22, 2068-2074.	0.7	50
88	Carbon ion radiotherapy in Japan: an assessment of 20 years of clinical experience. Lancet Oncology, The, 2015, 16, e93-e100.	5.1	423
89	Clinical implementation and range evaluation of in vivo PET dosimetry for particle irradiation in patients with primary glioma. Radiotherapy and Oncology, 2015, 115, 179-185.	0.3	43
90	Carbon ion beam treatment in patients with primary and recurrent sacrococcygeal chordoma. Strahlentherapie Und Onkologie, 2015, 191, 597-603.	1.0	50

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91	Ion therapy of prostate cancer: daily rectal dose reduction by application of spacer gel. <i>Radiation Oncology</i> , 2015, 10, 56.	1.2	17
92	Atrioventricular Node Ablation in Langendorff-Perfused Porcine Hearts Using Carbon Ion Particle Therapy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 429-438.	2.1	41
93	Time-resolved optically stimulated luminescence of Al ₂ O ₃ :C for ion beam therapy dosimetry. <i>Physics in Medicine and Biology</i> , 2015, 60, 6613-6638.	1.6	32
94	COSMIC: A Regimen of Intensity Modulated Radiation Therapy Plus Dose-Escalated, Raster-Scanned Carbon Ion Boost for Malignant Salivary Gland Tumors: Results of the Prospective Phase 2 Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 37-46.	0.4	75
95	EP-1373: Comparison of different detectors regarding the determination of beam width in scanned ion-beam therapy. <i>Radiotherapy and Oncology</i> , 2015, 115, S741.	0.3	0
96	matRad - a multi-modality open source 3D treatment planning toolkit. <i>IFMBE Proceedings</i> , 2015, , 1608-1611.	0.2	33
97	An anthropomorphic multimodality (CT/MRI) head phantom prototype for end-to-end tests in ion radiotherapy. <i>Zeitschrift Fur Medizinische Physik</i> , 2015, 25, 391-399.	0.6	35
98	WE-FF-05: Experimental Design for High-Throughput In-Vitro RBE Measurements Using Protons, Helium and Carbon Ions. <i>Medical Physics</i> , 2015, 42, 3675-3675.	1.6	1
99	WE-AB-BRB-08: Progress Towards a 2D OSL Dosimetry System Using Al ₂ O ₃ :C Films. <i>Medical Physics</i> , 2015, 42, 3651-3651.	1.6	0
100	Distortion of the per-pixel signal in the Timepix detector observed in high energy carbon ion beams. <i>Journal of Instrumentation</i> , 2014, 9, P09006-P09006.	0.5	9
101	Experimental verification of ion range calculation in a treatment planning system using a flat-panel detector. <i>Physics in Medicine and Biology</i> , 2014, 59, 3737-3747.	1.6	8
102	LET-painting increases tumour control probability in hypoxic tumours. <i>Acta Oncologica</i> , 2014, 53, 25-32.	0.8	112
103	Monte Carlo calculated CT numbers for improved heavy ion treatment planning. <i>Nukleonika</i> , 2014, 59, 15-23.	0.3	1
104	Residual motion mitigation in scanned carbon ion beam therapy of liver tumors using enlarged pencil beam overlap. <i>Radiotherapy and Oncology</i> , 2014, 113, 290-295.	0.3	31
105	Tissue decomposition from dual energy CT data for MC based dose calculation in particle therapy. <i>Medical Physics</i> , 2014, 41, 061714.	1.6	93
106	Highly effective treatment of skull base chordoma with carbon ion irradiation using a raster scan technique in 155 patients: First long-term results. <i>Cancer</i> , 2014, 120, 3410-3417.	2.0	124
107	A method to increase the nominal range resolution of a stack of parallel-plate ionization chambers. <i>Physics in Medicine and Biology</i> , 2014, 59, 5501-5515.	1.6	9
108	Experimental verification of ion stopping power prediction from dual energy CT data in tissue surrogates. <i>Physics in Medicine and Biology</i> , 2014, 59, 83-96.	1.6	158

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109	Experimental investigations on carbon ion scanning radiography using a range telescope. Physics in Medicine and Biology, 2014, 59, 3041-3057.	1.6	28
110	Single track coincidence measurements of fluorescent and plastic nuclear track detectors in therapeutic carbon beams. Journal of Instrumentation, 2014, 9, P04013-P04013.	0.5	2
111	The Battle Between Amino Acid PET and Functional MRI: Precision of Tumor Delineation Examined by Glioma Progression Pattern After Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 90, S290-S291.	0.4	0
112	Inter- and Intra-fractional Motion Robustness for Pancreatic Patients Treated With Scanned Carbon Ion Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 90, S921.	0.4	0
113	Absorbed dose in ion beams: comparison of ionisation- and fluence-based measurements. Radiation Protection Dosimetry, 2014, 161, 387-392.	0.4	8
114	Temporal Lobe Reactions After Carbon Ion Radiation Therapy: Comparison of Relative Biological Effectivenessâ€“Weighted Tolerance Doses Predicted by Local Effect Models I and IV. International Journal of Radiation Oncology Biology Physics, 2014, 88, 1136-1141.	0.4	13
115	Randomized phase II trial of hypofractionated proton versus carbon ion radiation therapy in patients with sacrococcygeal chordoma-the ISAC trial protocol. Radiation Oncology, 2014, 9, 100.	1.2	45
116	First experiences with the implementation of the European standard EN 62304 on medical device software for the quality assurance of a radiotherapy unit. Radiation Oncology, 2014, 9, 79.	1.2	8
117	Four-Dimensional Patient Dose Reconstruction for Scanned Ion Beam Therapy of Moving Liver Tumors. International Journal of Radiation Oncology Biology Physics, 2014, 89, 175-181.	0.4	43
118	On the role of ion-based imaging methods in modern ion beam therapy. , 2014, , .		1
119	Light-Ion Radiation Therapy Planning. , 2014, , 487-504.		1
120	SU-E-T-509: Validation of the Use of OSLD for Carbon Beam Remote Dosimetry. Medical Physics, 2014, 41, 344-344.	1.6	0
121	Engineering cell-fluorescent ion track hybrid detectors. Radiation Oncology, 2013, 8, 141.	1.2	24
122	Preclinical investigations towards the first spacer gel application in prostate cancer treatment during particle therapy at HIT. Radiation Oncology, 2013, 8, 134.	1.2	13
123	Accuracy of robotic patient positioners used in ion beam therapy. Radiation Oncology, 2013, 8, 124.	1.2	15
124	Hypofractionated carbon ion therapy delivered with scanned ion beams for patients with hepatocellular carcinoma â€“ feasibility and clinical response. Radiation Oncology, 2013, 8, 59.	1.2	70
125	Fluorescent nuclear track detectors as a tool for ion-beam therapy research. Radiation Measurements, 2013, 56, 267-272.	0.7	42
126	MRI-based simulation of treatment plans for ion radiotherapy in the brain region. Radiotherapy and Oncology, 2013, 109, 414-418.	0.3	54

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127	Phase I study evaluating the treatment of patients with locally advanced pancreatic cancer with carbon ion radiotherapy: the PHOENIX-01 trial. <i>BMC Cancer</i> , 2013, 13, 419.	1.1	22
128	Imaging dose assessment for IGRT in particle beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 109, 409-413.	0.3	19
129	Dynamic Target Definition: A novel approach for PTV definition in ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 107, 227-233.	0.3	9
130	Ion range estimation by using dual energy computed tomography. <i>Zeitschrift Fur Medizinische Physik</i> , 2013, 23, 300-313.	0.6	50
131	High-accuracy fluence determination in ion beams using fluorescent nuclear track detectors. <i>Radiation Measurements</i> , 2013, 56, 294-298.	0.7	27
132	Subcellular Spatial Correlation of Particle Traversal and Biological Response in Clinical Ion Beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 1141-1147.	0.4	28
133	Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 108, 99-106.	0.3	21
134	258 HYPOFRACTIONATED CARBON ION THERAPY DELIVERED WITH SCANNED ION BEAMS FOR PATIENTS WITH HEPATOCELLULAR CARCINOMA – FEASIBILITY AND CLINICAL RESPONSE. <i>Journal of Hepatology</i> , 2013, 58, S110.	1.8	0
135	Dosimetry in clinical static magnetic fields using plastic scintillation detectors. <i>Radiation Measurements</i> , 2013, 56, 357-360.	0.7	30
136	Ion range measurements using fluorescent nuclear track detectors. <i>Radiation Measurements</i> , 2013, 56, 342-346.	0.7	9
137	Experimental characterization of a prototype detector system for carbon ion radiography and tomography. <i>Physics in Medicine and Biology</i> , 2013, 58, 413-427.	1.6	49
138	MRI-based treatment plan simulation and adaptation for ion radiotherapy using a classification-based approach. <i>Radiation Oncology</i> , 2013, 8, 51.	1.2	56
139	Influence of the delta ray production threshold on water-to-air stopping power ratio calculations for carbon ion beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 145-158.	1.6	13
140	High-resolution fluence verification for treatment plan specific QA in ion beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 1725-1738.	1.6	4
141	Spatial correlation between traversal and cellular response in ion radiotherapy – Towards single track spectroscopy. <i>Radiation Measurements</i> , 2013, 56, 285-289.	0.7	15
142	Analysis of inter- and intrafraction accuracy of a commercial thermoplastic mask system used for image-guided particle radiation therapy. <i>Journal of Radiation Research</i> , 2013, 54, i69-i76.	0.8	13
143	Proton and carbon ion radiotherapy for primary brain tumors and tumors of the skull base. <i>Acta Oncologica</i> , 2013, 52, 1504-1509.	0.8	55
144	Prospective evaluation of early treatment outcome in patients with meningiomas treated with particle therapy based on target volume definition with MRI and ⁶⁸ Ga-DOTATOC-PET. <i>Acta Oncologica</i> , 2013, 52, 514-520.	0.8	68

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145	Evaluation of different fiducial markers for image-guided radiotherapy and particle therapy. Journal of Radiation Research, 2013, 54, i61-i68.	0.8	79
146	Ion track reconstruction in 3D using alumina-based fluorescent nuclear track detectors. Physics in Medicine and Biology, 2013, 58, N251-N266.	1.6	17
147	Non-invasive monitoring of therapeutic carbon ion beams in a homogeneous phantom by tracking of secondary ions. Physics in Medicine and Biology, 2013, 58, 3755-3773.	1.6	57
148	The more important heavy charged particle radiotherapy of the future is more likely to be with heavy ions rather than protons. Medical Physics, 2013, 40, 090601.	1.6	10
149	Upgrade and benchmarking of a 4D treatment planning system for scanned ion beam therapy. Medical Physics, 2013, 40, 051722.	1.6	58
150	Initial recombination in the track of heavy charged particles: Numerical solution for air filled ionization chambers. Acta Oncologica, 2012, 51, 368-375.	0.8	8
151	Characterization of a flat-panel detector for ion beam spot measurements. Physics in Medicine and Biology, 2012, 57, 485-497.	1.6	7
152	Experimental study of the water-to-air stopping power ratio of monoenergetic carbon ion beams for particle therapy. Physics in Medicine and Biology, 2012, 57, 3629-3641.	1.6	26
153	Quantitative carbon ion beam radiography and tomography with a flat-panel detector. Physics in Medicine and Biology, 2012, 57, 7957-7971.	1.6	56
154	Monte Carlo simulations to support start-up and treatment planning of scanned proton and carbon ion therapy at a synchrotron-based facility. Physics in Medicine and Biology, 2012, 57, 3759-3784.	1.6	182
155	Two-dimensional silicon-based detectors for ion beam therapy. , 2012, , .		1
156	Monitoring of ion beam energy by tracking of secondary ions: First measurements in a patient-like phantom. , 2012, , .		3
157	Study of the capabilities of the Timepix detector for Ion Beam radiotherapy applications. , 2012, , .		2
158	PERSPECTIVES OF THE PIXEL DETECTOR TIMEPIX FOR NEEDS OF ION BEAM THERAPY. Astroparticle, Particle, Space Physics, Radiation Interaction, Detectors and Medical Physics Applications, 2012, , 616-622.	0.1	0
159	Towards fragment distinction in therapeutic carbon ion beams: A novel experimental approach using the Timepix detector. , 2012, , .		2
160	Meeting the demands of highly precise Ion Beam Therapy - how a flat-panel detector can improve conformance tests. , 2012, , .		0
161	3D beam monitoring for ¹² C radiotherapy by tracking of secondary ions using the timepix detector. , 2012, , .		1
162	A comparison of different experimental methods for general recombination correction for liquid ionization chambers. Physics in Medicine and Biology, 2012, 57, 7161-7175.	1.6	13

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