

Oliver Jäckel

List of Publications by Year in descending order

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286
papers

9,829
citations

31949

53
h-index

49868

87
g-index

292
all docs

292
docs citations

292
times ranked

5402
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment planning for heavy-ion radiotherapy: physical beam model and dose optimization. <i>Physics in Medicine and Biology</i> , 2000, 45, 3299-3317.	1.6	470
2	Carbon ion radiotherapy in Japan: an assessment of 20 years of clinical experience. <i>Lancet Oncology</i> , The, 2015, 16, e93-e100.	5.1	423
3	Results of carbon ion radiotherapy in 152 patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 631-640.	0.4	279
4	Effectiveness of Carbon Ion Radiotherapy in the Treatment of Skull-Base Chordomas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 449-457.	0.4	276
5	Monte Carlo simulations to support start-up and treatment planning of scanned proton and carbon ion therapy at a synchrotron-based facility. <i>Physics in Medicine and Biology</i> , 2012, 57, 3759-3784.	1.6	182
6	The heidelberg ion therapy center. <i>Radiotherapy and Oncology</i> , 2004, 73, S186-S190.	0.3	181
7	Development of the open-source dose calculation and optimization toolkit matRad. <i>Medical Physics</i> , 2017, 44, 2556-2568.	1.6	178
8	Carbon ion radiotherapy of skull base chondrosarcomas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 171-177.	0.4	177
9	Dosimetry for ion beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2010, 55, R193-R234.	1.6	163
10	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
11	Radiation Therapy With Charged Particles. <i>Seminars in Radiation Oncology</i> , 2006, 16, 249-259.	1.0	153
12	Therapy strategies for locally advanced adenoid cystic carcinomas using modern radiation therapy techniques. <i>Cancer</i> , 2005, 104, 338-344.	2.0	149
13	Treatment planning for heavy ion radiotherapy: clinical implementation and application. <i>Physics in Medicine and Biology</i> , 2001, 46, 1101-1116.	1.6	138
14	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
15	Analysis of uncertainties in Gafchromic® EBT film dosimetry of photon beams. <i>Physics in Medicine and Biology</i> , 2008, 53, 7013-7027.	1.6	120
16	Dose- and LET-painting with particle therapy. <i>Acta Oncologica</i> , 2010, 49, 1170-1176.	0.8	120
17	Particle therapy at the Heidelberg Ion Therapy Center (HIT) – Integrated research-driven university-hospital-based radiation oncology service in Heidelberg, Germany. <i>Radiotherapy and Oncology</i> , 2010, 95, 41-44.	0.3	119
18	Technical Note: Homogeneity of Gafchromic®EBT2 film. <i>Medical Physics</i> , 2010, 37, 1753-1756.	1.6	116

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19	LET-painting increases tumour control probability in hypoxic tumours. <i>Acta Oncol</i> 2014, 53, 25-32.	0.8	112
20	Radiotherapy for chordomas and low-grade chondrosarcomas of the skull base with carbon ions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 36-42.	0.4	110
21	A system for three-dimensional dosimetric verification of treatment plans in intensity-modulated radiotherapy with heavy ions. <i>Medical Physics</i> , 1999, 26, 2125-2132.	1.6	104
22	Three-dimensional accuracy and interfractional reproducibility of patient fixation and positioning using a stereotactic head mask system. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 49, 1493-1504.	0.4	103
23	Relation between carbon ion ranges and x-ray CT numbers. <i>Medical Physics</i> , 2001, 28, 701-703.	1.6	99
24	Heidelberg Ion Therapy Center (HIT): Initial clinical experience in the first 80 patients. <i>Acta Oncol</i> 2010, 49, 1132-1140.	0.8	93
25	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
26	Carbon Ion Radiotherapy for Chordomas and Low-Grade Chondrosarcomas of the Skull Base. <i>Strahlentherapie Und Onkologie</i> , 2003, 179, 598-605.	1.0	91
27	Positron emission tomography for quality assurance of cancer therapy with light ion beams. <i>Nuclear Physics A</i> , 1999, 654, 1047c-1050c.	0.6	85
28	MR-guided proton therapy: a review and a preview. <i>Radiation Oncology</i> , 2020, 15, 129.	1.2	85
29	Randomized phase II study evaluating a carbon ion boost applied after combined radiochemotherapy with temozolomide versus a proton boost after radiochemotherapy with temozolomide in patients with primary glioblastoma: The CLEOPATRA Trial. <i>BMC Cancer</i> , 2010, 10, 478.	1.1	83
30	Dosimetric properties of Gafchromic® EBT films in monoenergetic medical ion beams. <i>Physics in Medicine and Biology</i> , 2010, 55, 3741-3751.	1.6	82
31	Combined intensity-modulated radiotherapy plus raster-scanned carbon ion boost for advanced adenoid cystic carcinoma of the head and neck results in superior locoregional control and overall survival. <i>Cancer</i> , 2015, 121, 3001-3009.	2.0	81
32	The influence of metal artefacts on the range of ion beams. <i>Physics in Medicine and Biology</i> , 2007, 52, 635-644.	1.6	79
33	Evaluation of different fiducial markers for image-guided radiotherapy and particle therapy. <i>Journal of Radiation Research</i> , 2013, 54, i61-i68.	0.8	79
34	High-LET radiotherapy for adenoid cystic carcinoma of the head and neck: 15 years' experience with raster-scanned carbon ion therapy. <i>Radiotherapy and Oncology</i> , 2016, 118, 272-280.	0.3	77
35	Randomised phase I/II study to evaluate carbon ion radiotherapy versus fractionated stereotactic radiotherapy in patients with recurrent or progressive gliomas: The CINDERELLA trial. <i>BMC Cancer</i> , 2010, 10, 533.	1.1	75
36	Carbon ion radiation therapy for high-risk meningiomas. <i>Radiotherapy and Oncology</i> , 2010, 95, 54-59.	0.3	75

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37	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
38	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
39	Determination of water absorbed dose in a carbon ion beam using thimble ionization chambers. <i>Physics in Medicine and Biology</i> , 1999, 44, 1193-1206.	1.6	72
40	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
41	Hypofractionated carbon ion therapy delivered with scanned ion beams for patients with hepatocellular carcinoma – feasibility and clinical response. <i>Radiation Oncology</i> , 2013, 8, 59.	1.2	70
42	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
43	Feasibility and toxicity of combined photon and carbon ion radiotherapy for locally advanced adenoid cystic carcinomas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 56, 391-398.	0.4	65
44	Calculation of stopping power ratios for carbon ion dosimetry. <i>Physics in Medicine and Biology</i> , 2006, 51, 2279-2292.	1.6	65
45	Carbon ion radiotherapy performed as re-irradiation using active beam delivery in patients with tumors of the brain, skull base and sacral region. <i>Radiotherapy and Oncology</i> , 2011, 98, 63-67.	0.3	64
46	Upgrade and benchmarking of a 4D treatment planning system for scanned ion beam therapy. <i>Medical Physics</i> , 2013, 40, 051722.	1.6	58
47	Non-invasive monitoring of therapeutic carbon ion beams in a homogeneous phantom by tracking of secondary ions. <i>Physics in Medicine and Biology</i> , 2013, 58, 3755-3773.	1.6	57
48	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
49	Non-randomized therapy trial to determine the safety and efficacy of heavy ion radiotherapy in patients with non-resectable osteosarcoma. <i>BMC Cancer</i> , 2010, 10, 96.	1.1	56
50	Quantitative carbon ion beam radiography and tomography with a flat-panel detector. <i>Physics in Medicine and Biology</i> , 2012, 57, 7957-7971.	1.6	56
51	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
52	The future of heavy ion radiotherapy. <i>Medical Physics</i> , 2008, 35, 5653-5663.	1.6	55
53	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
54	MRI-based simulation of treatment plans for ion radiotherapy in the brain region. <i>Radiotherapy and Oncology</i> , 2013, 109, 414-418.	0.3	54

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55	High control rates of proton and carbon ion beam treatment with intensity 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
56	Quality assurance for a treatment planning system in scanned ion beam therapy. <i>Medical Physics</i> , 2000, 27, 1588-1600.	1.6	50
57	Heavy Ion Therapy: Status and Perspectives. <i>Technology in Cancer Research and Treatment</i> , 2003, 2, 377-387.	0.8	50
58	Ion range estimation by using dual energy computed tomography. <i>Zeitschrift Fur Medizinische Physik</i> , 2013, 23, 300-313.	0.6	50
59	Reirradiation Using Carbon Ions in Patients with Locally Recurrent Rectal Cancer at HIT: First Results. <i>Annals of Surgical Oncology</i> , 2015, 22, 2068-2074.	0.7	50
60	Carbon ion beam treatment in patients with primary and recurrent sacrococcygeal chordoma. <i>Strahlentherapie Und Onkologie</i> , 2015, 191, 597-603.	1.0	50
61	The application of PET to quality assurance of heavy-ion tumor therapy. <i>Strahlentherapie Und Onkologie</i> , 1999, 175, 33-36.	1.0	49
62	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
63	Treatment of patients with atypical meningiomas Simpson grade 4 and 5 with a carbon ion boost in combination with postoperative photon radiotherapy: The MARCIE Trial. <i>BMC Cancer</i> , 2010, 10, 615.	1.1	48
64	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
65	A calibration procedure for beam monitors in a scanned beam of heavy charged particles. <i>Medical Physics</i> , 2004, 31, 1009-1013.	1.6	46
66	Temporal Lobe Reactions After Radiotherapy With Carbon Ions: Incidence and Estimation of the Relative Biological Effectiveness by the Local Effect Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 815-823.	0.4	46
67	Phase I/II trial evaluating carbon ion radiotherapy for the treatment of recurrent rectal cancer: the PANDORA-01 trial. <i>BMC Cancer</i> , 2012, 12, 137.	1.1	46
68	Randomized phase II trial of hypofractionated proton versus carbon ion radiation therapy in patients with sacrococcygeal chordoma-the ISAC trial protocol. <i>Radiation Oncology</i> , 2014, 9, 100.	1.2	45
69	Acute radiation-induced toxicity of heavy ion radiotherapy delivered with intensity modulated pencil beam scanning in patients with base of skull tumors. <i>Radiotherapy and Oncology</i> , 2002, 64, 189-195.	0.3	44
70	Medical physics aspects of particle therapy. <i>Radiation Protection Dosimetry</i> , 2009, 137, 156-166.	0.4	44
71	Treatment of pediatric patients and young adults with particle therapy at the Heidelberg Ion Therapy Center (HIT): establishment of workflow and initial clinical data. <i>Radiation Oncology</i> , 2012, 7, 170.	1.2	44
72	Four-Dimensional Patient Dose Reconstruction for Scanned Ion Beam Therapy of Moving Liver Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 175-181.	0.4	43

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73	Clinical implementation and range evaluation of in vivo PET dosimetry for particle irradiation in patients with primary glioma. <i>Radiotherapy and Oncology</i> , 2015, 115, 179-185.	0.3	43
74	Fluorescent nuclear track detectors as a tool for ion-beam therapy research. <i>Radiation Measurements</i> , 2013, 56, 267-272.	0.7	42
75	A phenomenological relative biological effectiveness approach for proton therapy based on an improved description of the mixed radiation field. <i>Physics in Medicine and Biology</i> , 2017, 62, 1378-1395.	1.6	42
76	Evaluation of therapeutic potential of heavy ion therapy for patients with locally advanced prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 89-97.	0.4	41
77	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
78	Radiation Tolerance of the Rat Spinal Cord after Single and Split Doses of Photons and Carbon Ions ¹ . <i>Radiation Research</i> , 2003, 160, 536-542.	0.7	39
79	Assessment of Early Toxicity and Response in Patients Treated With Proton and Carbon Ion Therapy at the Heidelberg Ion Therapy Center Using the Raster Scanning Technique. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, e793-e801.	0.4	39
80	Current Status and New Developments in Ion Therapy. <i>Strahlentherapie Und Onkologie</i> , 2007, 183, 295-300.	1.0	38
81	Generation of synthetic CT data using patient specific daily MR image data and image registration. <i>Physics in Medicine and Biology</i> , 2017, 62, 1358-1377.	1.6	38
82	Phase i study evaluating the treatment of patients with hepatocellular carcinoma (HCC) with carbon ion radiotherapy: The PROMETHEUS-01 trial. <i>BMC Cancer</i> , 2011, 11, 67.	1.1	37
83	Comparison of intensity modulated radiotherapy (IMRT) with intensity modulated particle therapy (IMPT) using fixed beams or an ion gantry for the treatment of patients with skull base meningiomas. <i>Radiation Oncology</i> , 2012, 7, 44.	1.2	37
84	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
85	On the cost-effectiveness of Carbon ion radiation therapy for skull base chordoma. <i>Radiotherapy and Oncology</i> , 2007, 83, 133-138.	0.3	36
86	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
87	Evaluation of particle radiotherapy for the re-irradiation of recurrent intracranial meningioma. <i>Radiation Oncology</i> , 2018, 13, 86.	1.2	35
88	matRad - a multi-modality open source 3D treatment planning toolkit. <i>IFMBE Proceedings</i> , 2015, , 1608-1611.	0.2	33
89	Optimization of Radiation Therapy for Locally Advanced Adenoid Cystic Carcinomas with Infiltration of the Skull Base Using Photon Intensity-Modulated Radiation Therapy (IMRT) and a Carbon Ion Boost. <i>Strahlentherapie Und Onkologie</i> , 2003, 179, 345-351.	1.0	32
90	Influence of iodine contrast agent on the range of ion beams for radiotherapy. <i>Medical Physics</i> , 2004, 31, 767-773.	1.6	32

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91	The impact of modeling nuclear fragmentation on delivered dose and radiobiology in ion therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 5169-5185.	1.6	32
92	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
93	Quality management of medical physics issues at the German heavy ion therapy project. <i>Medical Physics</i> , 2000, 27, 725-736.	1.6	31
94	Amorphous track models: A numerical comparison study. <i>Radiation Measurements</i> , 2010, 45, 1406-1409.	0.7	31
95	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
96	Dosimetry in clinical static magnetic fields using plastic scintillation detectors. <i>Radiation Measurements</i> , 2013, 56, 357-360.	0.7	30
97	Effective point of measurement of cylindrical ionization chambers for heavy charged particles. <i>Physics in Medicine and Biology</i> , 2000, 45, 599-607.	1.6	29
98	Treatment planning for scanned ion beams. <i>Radiotherapy and Oncology</i> , 2004, 73, S80-S85.	0.3	29
99	The relative biological effectiveness of proton and ion beams. <i>Zeitschrift Fur Medizinische Physik</i> , 2008, 18, 276-285.	0.6	28
100	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
101	Experimental investigations on carbon ion scanning radiography using a range telescope. <i>Physics in Medicine and Biology</i> , 2014, 59, 3041-3057.	1.6	28
102	Antiproton radiotherapy. <i>Radiotherapy and Oncology</i> , 2008, 86, 14-19.	0.3	27
103	High-accuracy fluence determination in ion beams using fluorescent nuclear track detectors. <i>Radiation Measurements</i> , 2013, 56, 294-298.	0.7	27
104	Experimental study of the water-to-air stopping power ratio of monoenergetic carbon ion beams for particle therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 3629-3641.	1.6	26
105	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
106	Physical advantages of particles: protons and light ions. <i>British Journal of Radiology</i> , 2020, 93, 20190428.	1.0	25
107	The antiproton depth-dose curve in water. <i>Physics in Medicine and Biology</i> , 2008, 53, 793-805.	1.6	24
108	Monte Carlo simulations on the water-to-air stopping power ratio for carbon ion dosimetry. <i>Medical Physics</i> , 2009, 36, 1230-1235.	1.6	24

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109	Study of Gafchromic® EBT film response over a large dose range. <i>Physics in Medicine and Biology</i> , 2010, 55, N281-N290.	1.6	24
110	Analytical expressions for water-to-air stopping-power ratios relevant for accurate dosimetry in particle therapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 2515-2533.	1.6	24
111	Dose response of alanine detectors irradiated with carbon ion beams. <i>Medical Physics</i> , 2011, 38, 1859-1866.	1.6	24
112	Engineering cell-fluorescent ion track hybrid detectors. <i>Radiation Oncology</i> , 2013, 8, 141.	1.2	24
113	An advanced image processing method to improve the spatial resolution of ion radiographies. <i>Physics in Medicine and Biology</i> , 2015, 60, 8525-8547.	1.6	24
114	Use of Gafchromic® EBT films in heavy ion therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 591, 171-173.	0.7	23
115	Dosimetric properties of Gafchromic® EBT films in medical carbon ion beams. <i>Physics in Medicine and Biology</i> , 2010, 55, 5557-5567.	1.6	23
116	Measurement of secondary radiation during ion beam therapy with the pixel detector Timepix. <i>Journal of Instrumentation</i> , 2011, 6, C11014-C11014.	0.5	23
117	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
118	Chiral symmetry and the near threshold pion-induced 2π production on the nucleon. <i>Nuclear Physics A</i> , 1990, 511, 733-746.	0.6	22
119	Treatment planning for carbon ion radiotherapy in Germany: Review of clinical trials and treatment planning studies. <i>Radiotherapy and Oncology</i> , 2004, 73, S86-S91.	0.3	22
120	The ratio of stopping powers of water and air for dosimetry applications in tumor therapy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 561-564.	0.6	22
121	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
122	Data-driven RBE parameterization for helium ion beams. <i>Physics in Medicine and Biology</i> , 2016, 61, 888-905.	1.6	22
123	Proof of principle of helium 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
124	Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 108, 99-106.	0.3	21
125	Selection of beam angles for radiotherapy of skull base tumours using charged particles. <i>Physics in Medicine and Biology</i> , 2000, 45, 1229-1241.	1.6	20
126	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

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127	Significance of intra-fractional motion for pancreatic patients treated with charged particles. <i>Radiation Oncology</i> , 2018, 13, 120.	1.2	20
128	Dosimetric Impact of Interfractional Variations in Prostate Cancer Radiotherapy – Implications for Imaging Frequency and Treatment Adaptation. <i>Frontiers in Oncology</i> , 2019, 9, 940.	1.3	20
129	Imaging dose assessment for IGRT in particle beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 109, 409-413.	0.3	19
130	Ion recombination correction factor in scanned light-ion beams for absolute dose measurement using plane-parallel ionisation chambers. <i>Physics in Medicine and Biology</i> , 2017, 62, 5365-5382.	1.6	19
131	Planning strategies for inter-fractional robustness in pancreatic patients treated with scanned carbon therapy. <i>Radiation Oncology</i> , 2017, 12, 94.	1.2	19
132	Detection and track visualization of primary and secondary radiation in hadron therapy beams with the pixel detector Timepix. , 2010, , .		18
133	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
134	Chiral symmetry and the near-threshold pion-induced 2π production on the nucleon. <i>Nuclear Physics A</i> , 1992, 541, 675-686.	0.6	17
135	A method for determining the alignment accuracy of the treatment table axis at an isocentric irradiation facility. <i>Physics in Medicine and Biology</i> , 2001, 46, N19-N26.	1.6	17
136	Treatment planning intercomparison for spinal chordomas using intensity-modulated photon radiation therapy (IMRT) and carbon ions. <i>Physics in Medicine and Biology</i> , 2003, 48, 2617-2631.	1.6	17
137	The Influence of Stopping Powers upon Dosimetry for Radiation Therapy with Energetic Ions. <i>Advances in Quantum Chemistry</i> , 2007, , 289-306.	0.4	17
138	COTS Silicon diodes as radiation detectors in proton and heavy charged particle radiotherapy 1. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 365-371.	0.6	17
139	Ion track reconstruction in 3D using alumina-based fluorescent nuclear track detectors. <i>Physics in Medicine and Biology</i> , 2013, 58, N251-N266.	1.6	17
140	Ion therapy of prostate cancer: daily rectal dose reduction by application of spacer gel. <i>Radiation Oncology</i> , 2015, 10, 56.	1.2	17
141	A 3D feature point tracking method for ion radiation. <i>Physics in Medicine and Biology</i> , 2016, 61, 4088-4104.	1.6	17
142	Direct determination of $\langle k \rangle_Q$ for Farmer-type ionization chambers in a clinical scanned carbon ion beam using water calorimetry. <i>Physics in Medicine and Biology</i> , 2017, 62, 2033-2054.	1.6	17
143	Specifying Carbon Ion Doses for Radiotherapy: The Heidelberg Approach. <i>Journal of Radiation Research</i> , 2007, 48, A87-A95.	0.8	16
144	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

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145	Angular correlations for $\pi^+\pi^+$ in the region of the ρ^0 dominance. <i>Physical Review C</i> , 1993, 48, 981-1002.	1.1	15
146	Ranges of ions in metals for use in particle treatment planning. <i>Physics in Medicine and Biology</i> , 2006, 51, N173-N177.	1.6	15
147	Acute toxicity of combined photon IMRT and carbon ion boost for intermediate-risk prostate cancer – Acute toxicity of 12C for PC. <i>Acta Oncologica</i> , 2011, 50, 784-790.	0.8	15
148	Accuracy of robotic patient positioners used in ion beam therapy. <i>Radiation Oncology</i> , 2013, 8, 124.	1.2	15
149	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
150	Optimization of carbon ion and proton treatment plans using the raster-scanning technique for patients with unresectable pancreatic cancer. <i>Radiation Oncology</i> , 2015, 10, 237.	1.2	15
151	Investigations of a flat-panel detector for quality assurance measurements in ion beam therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 51-68.	1.6	14
152	Application of fluorescent nuclear track detectors for cellular dosimetry. <i>Physics in Medicine and Biology</i> , 2017, 62, 2719-2740.	1.6	14
153	Radiation hazard during a manned mission to Mars. <i>Zeitschrift Fur Medizinische Physik</i> , 2004, 14, 267-272.	0.6	13
154	Biological dose optimization using ramp-like dose gradients in ion irradiation fields. <i>Physica Medica</i> , 2005, 21, 107-111.	0.4	13
155	A comparison of different experimental methods for general recombination correction for liquid ionization chambers. <i>Physics in Medicine and Biology</i> , 2012, 57, 7161-7175.	1.6	13
156	Preclinical investigations towards the first spacer gel application in prostate cancer treatment during particle therapy at HIT. <i>Radiation Oncology</i> , 2013, 8, 134.	1.2	13
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