

Niels Bassler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

1,257
citations

21
h-index

30
g-index

104
ext. papers

1,459
ext. citations

2.3
avg, IF

4.25
L-index

#	Paper	IF	Citations
85	A systematic review on the usage of averaged LET in radiation biology for particle therapy. <i>Radiotherapy and Oncology</i> , 2021 , 161, 211-221	5.3	5
84	Calculation of the Beam-Modulation Effect of the Lung in Carbon Ion and Proton Therapy With Deterministic Pencil Beam Algorithms. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	1
83	Dose- rather than fluence-averaged LET should be used as a single-parameter descriptor of proton beam quality for radiochromic film dosimetry. <i>Medical Physics</i> , 2020 , 47, 2289-2299	4.4	8
82	Mapping initial and general recombination in scanning proton pencil beams. <i>Physics in Medicine and Biology</i> , 2020 , 65, 115003	3.8	3
81	Proton scanning and X-ray beam irradiation induce distinct regulation of inflammatory cytokines in a preclinical mouse model. <i>International Journal of Radiation Biology</i> , 2020 , 96, 1238-1244	2.9	6
80	Ionization quenching in scintillators used for dosimetry of mixed particle fields. <i>Physics in Medicine and Biology</i> , 2019 , 64, 095018	3.8	8
79	Comparison of Coding Transcriptomes in Fibroblasts Irradiated With Low and High LET Proton Beams and Cobalt-60 Photons. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 1203-1211	4	4
78	THE ROLE OF PARTICLE SPECTRA IN MODELING THE RELATIVE BIOLOGICAL EFFECTIVENESS OF PROTON RADIOTHERAPY BEAMS. <i>Radiation Protection Dosimetry</i> , 2019 , 183, 251-254	0.9	4
77	MONTE CARLO SIMULATIONS OF SPATIAL LET DISTRIBUTIONS IN CLINICAL PROTON BEAMS. <i>Radiation Protection Dosimetry</i> , 2018 , 180, 296-299	0.9	11
76	CALIBRATION OF GAFCHROMIC EBT3 FILM FOR DOSIMETRY OF SCANNING PROTON PENCIL BEAM (PBS). <i>Radiation Protection Dosimetry</i> , 2018 , 180, 324-328	0.9	8
75	Quantitative evaluation of potential irradiation geometries for carbon-ion beam grid therapy. <i>Medical Physics</i> , 2018 , 45, 1210-1221	4.4	6
74	Computational models and tools. <i>Medical Physics</i> , 2018 , 45, e1073-e1085	4.4	2
73	Validation of new 2D ripple filters in proton treatments of spherical geometries and non-small cell lung carcinoma cases. <i>Physics in Medicine and Biology</i> , 2018 , 63, 245020	3.8	2
72	Optimal reference genes for normalization of qPCR gene expression data from proton and photon irradiated dermal fibroblasts. <i>Scientific Reports</i> , 2018 , 8, 12688	4.9	3
71	Chemically tuned linear energy transfer dependent quenching in a deformable, radiochromic 3D dosimeter. <i>Physics in Medicine and Biology</i> , 2017 , 62, N73-N89	3.8	9
70	Relative biological effectiveness (RBE) and distal edge effects of proton radiation on early damage in vivo. <i>Acta Oncologica</i> , 2017 , 56, 1387-1391	3.2	35
69	Differential gene expression in primary fibroblasts induced by proton and cobalt-60 beam irradiation. <i>Acta Oncologica</i> , 2017 , 56, 1406-1412	3.2	15

68	Development of an interlaced-crossfiring geometry for proton grid therapy. <i>Acta Oncologica</i> , 2017 , 56, 1437-1443	3.2	9
67	Relative Biological Effectiveness of Antiprotons the AD-4/ACE Experiment 2017 ,		1
66	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	4.4	8
65	A general algorithm for calculation of recombination losses in ionization chambers exposed to ion beams. <i>Medical Physics</i> , 2016 , 43, 5484	4.4	6
64	The relative biological effectiveness of antiprotons. <i>Radiotherapy and Oncology</i> , 2016 , 121, 453-458	5.3	4
63	Dosimetric comparisons of carbon ion treatment plans for 1D and 2D ripple filters with variable thicknesses. <i>Physics in Medicine and Biology</i> , 2016 , 61, 4327-41	3.8	6
62	Improved proton stopping power ratio estimation for a deformable 3D dosimeter using Dual Energy CT. <i>Radiotherapy and Oncology</i> , 2016 , 118, S99-S100	5.3	
61	Fluence inhomogeneities due to a ripple filter induced Moiré effect. <i>Physics in Medicine and Biology</i> , 2015 , 60, N59-69	3.8	7
60	Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model. <i>Acta Oncologica</i> , 2015 , 54, 1623-30	3.2	27
59	Antiproton annihilation physics in the Monte Carlo particle transport code SHIELD-HIT12A. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 347, 65-71	1.2	3
58	The alanine detector in BNCT dosimetry: dose response in thermal and epithermal neutron fields. <i>Medical Physics</i> , 2015 , 42, 400-11	4.4	18
57	Efficient calculation of local dose distributions for response modeling in proton and heavier ion beams. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	5
56	Dependence of simulated positron emitter yields in ion beam cancer therapy on modeling nuclear fragmentation. <i>Applied Radiation and Isotopes</i> , 2014 , 83 Pt B, 165-70	1.7	6
55	PyTRiP - a toolbox and GUI for the proton/ion therapy planning system TRiP. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012045	0.3	4
54	Improvements in the stopping power library libdEdx and release of the web GUI dedx.au.dk. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012003	0.3	3
53	SHIELD-HIT12A - a Monte Carlo particle transport program for ion therapy research. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012004	0.3	19
52	LET-painting increases tumour control probability in hypoxic tumours. <i>Acta Oncologica</i> , 2014 , 53, 25-32	3.2	84
51	Monte Carlo simulations of new 2D ripple filters for particle therapy facilities. <i>Acta Oncologica</i> , 2014 , 53, 40-9	3.2	13

50	A method for selection of beam angles robust to intra-fractional motion in proton therapy of lung cancer. <i>Acta Oncologica</i> , 2014 , 53, 1058-63	3.2	13
49	The image quality of ion computed tomography at clinical imaging dose levels. <i>Medical Physics</i> , 2014 , 41, 111908	4.4	22
48	Improved proton computed tomography by dual modality image reconstruction. <i>Medical Physics</i> , 2014 , 41, 031904	4.4	15
47	Clinical oxygen enhancement ratio of tumors in carbon ion radiotherapy: the influence of local oxygenation changes. <i>Journal of Radiation Research</i> , 2014 , 55, 902-11	2.4	34
46	Formation of radical anions of radiosensitizers and related model compounds via electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2014 , 365-366, 56-63	1.9	24
45	Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013 , 108, 99-106	5.3	19
44	Evaluation of the relative thermoluminescence efficiency of LiF:Mg,Ti and LiF:Mg,Cu,P TL detectors to low-energy heavy ions. <i>Radiation Measurements</i> , 2013 , 51-52, 7-12	1.5	14
43	Fluence correction factors for graphite calorimetry in a low-energy clinical proton beam: I. Analytical and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2013 , 58, 3481-99	3.8	16
42	In response to the commentary 'Particle species dependence of cell survival relative biological effectiveness: Evident and not negligible' by Thomas Friedrich, Marco Durante & Michael Scholz. <i>Acta Oncologica</i> , 2013 , 52, 591	3.2	2
41	Antiproton induced DNA damage: proton like in flight, carbon-ion like near rest. <i>Scientific Reports</i> , 2013 , 3, 1770	4.9	19
40	Stopping power for particle therapy: the generic library libdEdx and clinically relevant stopping-power ratios for light ions. <i>International Journal of Radiation Biology</i> , 2012 , 88, 209-12	2.9	24
39	Optimizing SHIELD-HIT for carbon ion treatment. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2393-409	3.8	30
38	Recent improvements in the SHIELD-HIT code. <i>International Journal of Radiation Biology</i> , 2012 , 88, 195-92.9		13
37	Initial recombination in the track of heavy charged particles: numerical solution for air filled ionization chambers. <i>Acta Oncologica</i> , 2012 , 51, 368-75	3.2	6
36	The impact of modeling nuclear fragmentation on delivered dose and radiobiology in ion therapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 5169-85	3.8	25
35	Dose determination using alanine detectors in a mixed neutron and gamma field for boron neutron capture therapy of liver malignancies. <i>Acta Oncologica</i> , 2011 , 50, 817-22	3.2	11
34	Dose response of alanine detectors irradiated with carbon ion beams. <i>Medical Physics</i> , 2011 , 38, 1859-66.4		23
33	Amorphous track predictions in LiF:Mg,Ti for alanine relative effectiveness in ion beams. <i>Radiation Measurements</i> , 2011 , 46, 1551-1553	1.5	3

32	Characterization of the optical properties and stability of Presage [®] following irradiation with photons and carbon ions. <i>Acta Oncologica</i> , 2011 , 50, 829-34	3.2	16
31	Fluence correction factors and stopping power ratios for clinical ion beams. <i>Acta Oncologica</i> , 2011 , 50, 797-805	3.2	21
30	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, 2515-33	3.8	21
29	In vitro RBE-LET dependence for multiple particle types. <i>Acta Oncologica</i> , 2011 , 50, 757-62	3.2	82
28	Real-time imaging for dose evaluation during antiproton irradiation. <i>Physics in Medicine and Biology</i> , 2010 , 55, N123-31	3.8	8
27	Dose calculation in biological samples in a mixed neutron-gamma field at the TRIGA reactor of the University of Mainz. <i>Acta Oncologica</i> , 2010 , 49, 1165-9	3.2	11
26	Comparison of optimized single and multifield irradiation plans of antiproton, proton and carbon ion beams. <i>Radiotherapy and Oncology</i> , 2010 , 95, 87-93	5.3	23
25	Neutron fluence in antiproton radiotherapy, measurements and simulations. <i>Acta Oncologica</i> , 2010 , 49, 1149-59	3.2	5
24	Investigation of the dosimetric impact of a Ni-Ti fiducial marker in carbon ion and proton beams. <i>Acta Oncologica</i> , 2010 , 49, 1160-4	3.2	8
23	Dose- and LET-painting with particle therapy. <i>Acta Oncologica</i> , 2010 , 49, 1170-6	3.2	96
22	Experimental setup and first measurement of DNA damage induced along and around an antiproton beam. <i>European Physical Journal D</i> , 2010 , 60, 209-214	1.3	3
21	Radiation damage in charge-coupled devices. <i>Radiation and Environmental Biophysics</i> , 2010 , 49, 373-8	2	7
20	COTS Silicon diodes as radiation detectors in proton and heavy charged particle radiotherapy 1. <i>Radiation and Environmental Biophysics</i> , 2010 , 49, 365-71	2	14
19	Amorphous track models: A numerical comparison study. <i>Radiation Measurements</i> , 2010 , 45, 1406-1409	1.5	28
18	Liquid ionization chambers for LET determination. <i>Radiation Measurements</i> , 2010 , 45, 1109-1111	1.5	1
17	SU-GG-T-413: Comparison of Out-Of-Field Neutron Equivalent Doses in Scanning Carbon and Proton Therapies for Cranial Fields. <i>Medical Physics</i> , 2010 , 37, 3281-3281	4.4	
16	Monte Carlo simulations on the water-to-air stopping power ratio for carbon ion dosimetry. <i>Medical Physics</i> , 2009 , 36, 1230-5	4.4	22
15	Calculated LET spectrum from antiproton beams stopping in water. <i>Acta Oncologica</i> , 2009 , 48, 223-6	3.2	11

14	Antiproton radiotherapy: peripheral dose from secondary neutrons. <i>Hyperfine Interactions</i> , 2009 , 194, 313-318	0.8	4
13	V-79 Chinese hamster cells irradiated with antiprotons, a study of peripheral damage due to medium and long range components of the annihilation radiation. <i>International Journal of Radiation Biology</i> , 2009 , 85, 1148-56	2.9	7
12	Carbon beam dosimetry using VIP polymer gel and MRI. <i>Journal of Physics: Conference Series</i> , 2009 , 164, 012055	0.3	6
11	Antiproton radiotherapy: peripheral dose from secondary neutrons 2009 , 661-666		
10	Antiproton radiotherapy. <i>Radiotherapy and Oncology</i> , 2008 , 86, 14-9	5.3	24
9	The antiproton depth-dose curve in water. <i>Physics in Medicine and Biology</i> , 2008 , 53, 793-805	3.8	22
8	Antiproton therapy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 530-534	1.2	11
7	The antiproton depth-dose curve measured with alanine detectors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 929-936	1.2	22
6	MO-E-AUD B-02: Antiproton Therapy: Monte Carlo Simulations of Normal Tissue Equivalent Dose From Annihilation Neutrons. <i>Medical Physics</i> , 2008 , 35, 2874-2874	4.4	
5	The biological effectiveness of antiproton irradiation. <i>Radiotherapy and Oncology</i> , 2006 , 81, 233-42	5.3	51
4	Bubble detector measurements of a mixed radiation field from antiproton annihilation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 251, 269-273	1.2	7
3	Cancer Therapy with Antiprotons. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
2	Biological effectiveness of antiproton annihilation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 221, 210-214	1.2	18
1	Biological effectiveness of antiproton annihilation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 214, 181-185	1.2	13