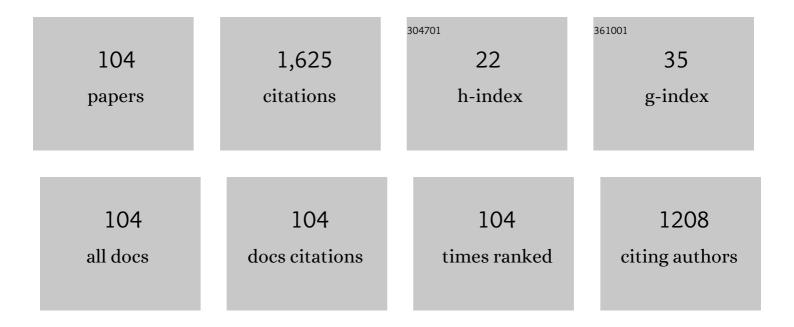
Niels Bassler

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A systematic review on the usage of averaged LET in radiation biology for particle therapy. Radiotherapy and Oncology, 2021, 161, 211-221. | 0.6 | 44 |
| 2 | Proton scanning and X-ray beam irradiation induce distinct regulation of inflammatory cytokines in a preclinical mouse model. International Journal of Radiation Biology, 2020, 96, 1238-1244. | 1.8 | 14 |
| 3 | Calculation of the Beam-Modulation Effect of the Lung in Carbon Ion and Proton Therapy With Deterministic Pencil Beam Algorithms. Frontiers in Physics, 2020, 8, . | 2.1 | 1 |
| 4 | Dose―rather than fluenceâ€øveraged LET should be used as a singleâ€parameter descriptor of proton beam quality for radiochromic film dosimetry. Medical Physics, 2020, 47, 2289-2299. | 3.0 | 12 |
| 5 | Mapping initial and general recombination in scanning proton pencil beams. Physics in Medicine and Biology, 2020, 65, 115003. | 3.0 | 8 |
| 6 | Ionization quenching in scintillators used for dosimetry of mixed particle fields. Physics in Medicine and Biology, 2019, 64, 095018. | 3.0 | 10 |
| 7 | Comparison of Coding Transcriptomes in Fibroblasts Irradiated With Low and High LET Proton Beams and Cobalt-60 Photons. International Journal of Radiation Oncology Biology Physics, 2019, 103, 1203-1211. | 0.8 | 7 |
| 8 | THE ROLE OF PARTICLE SPECTRA IN MODELING THE RELATIVE BIOLOGICAL EFFECTIVENESS OF PROTON RADIOTHERAPY BEAMS. Radiation Protection Dosimetry, 2019, 183, 251-254. | 0.8 | 5 |
| 9 | MONTE CARLO SIMULATIONS OF SPATIAL LET DISTRIBUTIONS IN CLINICAL PROTON BEAMS. Radiation Protection Dosimetry, 2018, 180, 296-299. | 0.8 | 15 |
| 10 | CALIBRATION OF GAFCHROMIC EBT3 FILM FOR DOSIMETRY OF SCANNING PROTON PENCIL BEAM (PBS). Radiation Protection Dosimetry, 2018, 180, 324-328. | 0.8 | 10 |
| 11 | Quantitative evaluation of potential irradiation geometries for carbonâ€ion beam grid therapy. Medical Physics, 2018, 45, 1210-1221. | 3.0 | 6 |
| 12 | Computational models and tools. Medical Physics, 2018, 45, e1073-e1085. | 3.0 | 5 |
| 13 | Validation of new 2D ripple filters in proton treatments of spherical geometries and non-small cell lung carcinoma cases. Physics in Medicine and Biology, 2018, 63, 245020. | 3.0 | 6 |
| 14 | Optimal reference genes for normalization of qPCR gene expression data from proton and photon irradiated dermal fibroblasts. Scientific Reports, 2018, 8, 12688. | 3.3 | 5 |
| 15 | [OA188] Passive ion beam modulation techniques for particle therapy raster scanning facilities. Physica Medica, 2018, 52, 72. | 0.7 | 0 |
| 16 | PV-0571: Transcriptomic changes in fibroblasts irradiated with proton beam scanning or Co-60 gamma rays. Radiotherapy and Oncology, 2018, 127, S300-S301. | 0.6 | 0 |
| 17 | Chemically tuned linear energy transfer dependent quenching in a deformable, radiochromic 3D dosimeter. Physics in Medicine and Biology, 2017, 62, N73-N89. | 3.0 | 17 |
| 18 | Relative biological effectiveness (RBE) and distal edge effects of proton radiation on early damage <i>in vivo</i> . Acta Oncológica, 2017, 56, 1387-1391. | 1.8 | 64 |

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|----|---|-----|-----------|
| 19 | Differential gene expression in primary fibroblasts induced by proton and cobalt-60 beam irradiation. Acta OncolA ³ gica, 2017, 56, 1406-1412. | 1.8 | 17 |
| 20 | Development of an interlaced-crossfiring geometry for proton grid therapy. Acta Oncológica, 2017, 56, 1437-1443. | 1.8 | 11 |
| 21 | Relative Biological Effectiveness of Antiprotons the AD-4/ACE Experiment. , 2017, , . | | 1 |
| 22 | Technical Note: Improving proton stopping power ratio determination for a deformable siliconeâ€based 3D dosimeter using dual energy CT. Medical Physics, 2016, 43, 2780-2784. | 3.0 | 11 |
| 23 | A general algorithm for calculation of recombination losses in ionization chambers exposed to ion beams. Medical Physics, 2016, 43, 5484-5492. | 3.0 | 11 |
| 24 | The relative biological effectiveness of antiprotons. Radiotherapy and Oncology, 2016, 121, 453-458. | 0.6 | 6 |
| 25 | Dosimetric comparisons of carbon ion treatment plans for 1D and 2D ripple filters with variable thicknesses. Physics in Medicine and Biology, 2016, 61, 4327-4341. | 3.0 | 9 |
| 26 | RBE for Carbon ions In Vivo for Tumor Control and Normal Tissue Damage. Radiotherapy and Oncology, 2016, 118, S3. | 0.6 | 0 |
| 27 | Simulation of recombination in an air filled ionization chamber. Radiotherapy and Oncology, 2016, 118, S25-S26. | 0.6 | Ο |
| 28 | Alanine as a Dose Verification Tool for Carbon Ion In-Vivo Irradiation. Radiotherapy and Oncology, 2016, 118, S6. | 0.6 | 0 |
| 29 | Improved proton stopping power ratio estimation for a deformable 3D dosimeter using Dual Energy CT. Radiotherapy and Oncology, 2016, 118, S99-S100. | 0.6 | Ο |
| 30 | The alanine detector in BNCT dosimetry: Dose response in thermal and epithermal neutron fields. Medical Physics, 2015, 42, 400-411. | 3.0 | 21 |
| 31 | Antiproton annihilation physics in the Monte Carlo particle transport code SHIELD-HIT12A. Nuclear Instruments & Methods in Physics Research B, 2015, 347, 65-71. | 1.4 | 3 |
| 32 | Fluence inhomogeneities due to a ripple filter induced Moiré effect. Physics in Medicine and Biology, 2015, 60, N59-N69. | 3.0 | 10 |
| 33 | Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model. Acta Oncológica, 2015, 54, 1623-1630. | 1.8 | 37 |
| 34 | LET-painting increases tumour control probability in hypoxic tumours. Acta Oncológica, 2014, 53, 25-32. | 1.8 | 112 |
| 35 | Monte Carlo simulations of new 2D ripple filters for particle therapy facilities. Acta Oncológica, 2014, 53, 40-49. | 1.8 | 19 |
| 36 | A method for selection of beam angles robust to intra-fractional motion in proton therapy of lung cancer. Acta Oncológica, 2014, 53, 1058-1063. | 1.8 | 21 |

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| 37 | The image quality of ion computed tomography at clinical imaging dose levels. Medical Physics, 2014, 41, 111908. | 3.0 | 28 |
| 38 | Improved proton computed tomography by dual modality image reconstruction. Medical Physics, 2014, 41, 031904. | 3.0 | 16 |
| 39 | Clinical oxygen enhancement ratio of tumors in carbon ion radiotherapy: the influence of local oxygenation changes. Journal of Radiation Research, 2014, 55, 902-911. | 1.6 | 50 |
| 40 | Formation of radical anions of radiosensitizers and related model compounds via electrospray ionization. International Journal of Mass Spectrometry, 2014, 365-366, 56-63. | 1.5 | 28 |
| 41 | Efficient calculation of local dose distributions for response modeling in proton and heavier ion beams. European Physical Journal D, 2014, 68, 1. | 1.3 | 6 |
| 42 | Evaluation of the Stability of the Water Equivalent Path Length in Proton Therapy of Lung Tumors Using 4D-CT Images. International Journal of Radiation Oncology Biology Physics, 2014, 90, S923. | 0.8 | 0 |
| 43 | Dependence of simulated positron emitter yields in ion beam cancer therapy on modeling nuclear fragmentation. Applied Radiation and Isotopes, 2014, 83, 165-170. | 1.5 | 6 |
| 44 | PyTRiP - a toolbox and GUI for the proton/ion therapy planning system TRiP. Journal of Physics: Conference Series, 2014, 489, 012045. | 0.4 | 5 |
| 45 | Improvements in the stopping power library libdEdx and release of the web GUI dedx.au.dk. Journal of Physics: Conference Series, 2014, 489, 012003. | 0.4 | 6 |
| 46 | 15: Oxygen ions achieve better tumour control probability in hypoxic tumours than carbon ions do. Radiotherapy and Oncology, 2014, 110, S7-S8. | 0.6 | 0 |
| 47 | 84: Comparing Ion Computed Tomography under clinical constraints. Radiotherapy and Oncology, 2014, 110, S41. | 0.6 | 0 |
| 48 | SHIELD-HIT12A - a Monte Carlo particle transport program for ion therapy research. Journal of Physics: Conference Series, 2014, 489, 012004. | 0.4 | 22 |
| 49 | Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. Radiotherapy and Oncology, 2013, 108, 99-106. | 0.6 | 21 |
| 50 | Evaluation of the relative thermoluminescence efficiency of LiF:Mg,Ti and LiF:Mg,Cu,P TL detectors to low-energy heavy ions. Radiation Measurements, 2013, 51-52, 7-12. | 1.4 | 15 |
| 51 | Fluence correction factors for graphite calorimetry in a low-energy clinical proton beam: I. Analytical and Monte Carlo simulations. Physics in Medicine and Biology, 2013, 58, 3481-3499. | 3.0 | 22 |
| 52 | In response to the commentary â€~Particle species dependence of cell survival relative biological effectiveness: Evident and not negligible' by Thomas Friedrich, Marco Durante & Michael Scholz. Acta Oncológica, 2013, 52, 591-591. | 1.8 | 2 |
| 53 | Antiproton induced DNA damage: proton like in flight, carbon-ion like near rest. Scientific Reports, 2013, 3, 1770. | 3.3 | 21 |
| 54 | PD-0491: Development of an angle dependent robustness quality factor for proton/ion beam in cancer treatment. Radiotherapy and Oncology, 2013, 106, S191. | 0.6 | 0 |

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| 55 | Recent improvements in the SHIELD-HIT code. International Journal of Radiation Biology, 2012, 88, 195-199. | 1.8 | 13 |
| 56 | Initial recombination in the track of heavy charged particles: Numerical solution for air filled ionization chambers. Acta OncolÃ ³ gica, 2012, 51, 368-375. | 1.8 | 8 |
| 57 | The impact of modeling nuclear fragmentation on delivered dose and radiobiology in ion therapy. Physics in Medicine and Biology, 2012, 57, 5169-5185. | 3.0 | 32 |
| 58 | A community call for a dedicated radiobiological research facility to support particle beam cancer therapy. Radiotherapy and Oncology, 2012, 105, 1-3. | 0.6 | 28 |
| 59 | Stopping power for particle therapy: The generic library libdEdx and clinically relevant stopping-power ratios for light ions. International Journal of Radiation Biology, 2012, 88, 209-212. | 1.8 | 29 |
| 60 | 72 ANTIPROTONS FOR RADIOBIOLOGY AND CANCER THERAPY THE AD-4/ACE EXPERIMENT. Radiotherapy and Oncology, 2012, 102, S24-S25. | 0.6 | 1 |
| 61 | 175 DOSE AND LET PAINTING WITH CHARGED PARTICLES. Radiotherapy and Oncology, 2012, 102, S82-S83. | 0.6 | 0 |
| 62 | 265 NUCLEAR FRAGMENTATION IN CLINICAL HEAVY ION BEAMS, SHOULD WE WORRY?. Radiotherapy and Oncology, 2012, 102, S140. | 0.6 | 0 |
| 63 | 284 MEASUREMENT OF THE DOSE AVERAGED LET IN MIXED PARTICLE FIELDS USING ALANINE DETECTORS. Radiotherapy and Oncology, 2012, 102, S149. | 0.6 | 0 |
| 64 | 295 STRATEGIES TO OVERCOME HYPOXIA â€" A ROADMAP TO LET OPTIMIZED TREATMENT PLANNING FOR ION THERAPY. Radiotherapy and Oncology, 2012, 102, S156-S157. | 0.6 | 1 |
| 65 | Optimizing SHIELD-HIT for carbon ion treatment. Physics in Medicine and Biology, 2012, 57, 2393-2409. | 3.0 | 31 |
| 66 | Fluence correction factors and stopping power ratios for clinical ion beams. Acta Oncológica, 2011, 50, 797-805. | 1.8 | 22 |
| 67 | Analytical expressions for water-to-air stopping-power ratios relevant for accurate dosimetry in particle therapy. Physics in Medicine and Biology, 2011, 56, 2515-2533. | 3.0 | 24 |
| 68 | In vitro RBE-LET dependence for multiple particle types. Acta Oncológica, 2011, 50, 757-762. | 1.8 | 107 |
| 69 | Dose determination using alanine detectors in a mixed neutron and gamma field for boron neutron capture therapy of liver malignancies. Acta OncolÃ ³ gica, 2011, 50, 817-822. | 1.8 | 11 |
| 70 | Dose response of alanine detectors irradiated with carbon ion beams. Medical Physics, 2011, 38, 1859-1866. | 3.0 | 24 |
| 71 | Amorphous track predictions in â€`libamtrack' for alanine relative effectiveness in ion beams. Radiation Measurements, 2011, 46, 1551-1553. | 1.4 | 3 |
| 72 | Characterization of the optical properties and stability of Presageâ,,¢ following irradiation with photons and carbon ions. Acta Oncológica, 2011, 50, 829-834. | 1.8 | 20 |

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| 73 | SU-E-T-712: An Antiproton Depth-Dose Curve Benchmark of Geant4. Medical Physics, 2011, 38, 3654-3654. | 3.0 | 0 |
| 74 | Experimental setup and first measurement of DNA damage induced along and around an antiproton beam. European Physical Journal D, 2010, 60, 209-214. | 1.3 | 4 |
| 75 | Radiation damage in charge-coupled devices. Radiation and Environmental Biophysics, 2010, 49, 373-378. | 1.4 | 12 |
| 76 | COTS Silicon diodes as radiation detectors in proton and heavy charged particle radiotherapy 1. Radiation and Environmental Biophysics, 2010, 49, 365-371. | 1.4 | 17 |
| 77 | Amorphous track models: A numerical comparison study. Radiation Measurements, 2010, 45, 1406-1409. | 1.4 | 31 |
| 78 | Liquid ionization chambers for LET determination. Radiation Measurements, 2010, 45, 1109-1111. | 1.4 | 1 |
| 79 | Real-time imaging for dose evaluation during antiproton irradiation. Physics in Medicine and Biology, 2010, 55, N123-N131. | 3.0 | 8 |
| 80 | Dose calculation in biological samples in a mixed neutron-gamma field at the TRIGA reactor of the University of Mainz. Acta Oncológica, 2010, 49, 1165-1169. | 1.8 | 14 |
| 81 | Comparison of optimized single and multifield irradiation plans of antiproton, proton and carbon ion beams. Radiotherapy and Oncology, 2010, 95, 87-93. | 0.6 | 28 |
| 82 | Neutron Fluence in Antiproton Radiotherapy, Measurements and Simulations. Acta Oncológica, 2010, 49, 1149-1159. | 1.8 | 6 |
| 83 | Investigation of the dosimetric impact of a Ni-Ti fiducial marker in carbon ion and proton beams. Acta OncolA³gica, 2010, 49, 1160-1164. | 1.8 | 9 |
| 84 | Dose- and LET-painting with particle therapy. Acta Oncol $	ilde{A}^3$ gica, 2010, 49, 1170-1176. | 1.8 | 120 |
| 85 | SUâ€GGâ€Tâ€413: Comparison of Outâ€Ofâ€Field Neutron Equivalent Doses in Scanning Carbon and Proton Therapies for Cranial Fields. Medical Physics, 2010, 37, 3281-3281. | 3.0 | 1 |
| 86 | Monte Carlo simulations on the waterâ€ŧoâ€air stopping power ratio for carbon ion dosimetry. Medical Physics, 2009, 36, 1230-1235. | 3.0 | 24 |
| 87 | Calculated LET spectrum from antiproton beams stopping in water. Acta Oncológica, 2009, 48, 223-226. | 1.8 | 12 |
| 88 | Antiproton radiotherapy: peripheral dose from secondary neutrons. Hyperfine Interactions, 2009, 194, 313-318. | 0.5 | 5 |
| 89 | THE PROPERTIES AND STABILITY OF PRESAGE FOLLOWING IRRADIATION WITH PHOTONS AND CARBON IONS IN THE OPTICAL SPECTRUM. Radiotherapy and Oncology, 2009, 92, S52. | 0.6 | 0 |
| 90 | V-79 Chinese Hamster cells irradiated with antiprotons, a study of peripheral damage due to medium and long range components of the annihilation radiation. International Journal of Radiation Biology, 2009, 85, 1148-1156. | 1.8 | 7 |

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| 91 | DEPTH-DOSE AND LET DISTRIBUTIONS OF ANTIPROTON BEAMS IN VARIOUS TARGET MATERIALS. Radiotherapy and Oncology, 2009, 92, S228. | 0.6 | 0 |
| 92 | Carbon beam dosimetry using VIP polymer gel and MRI. Journal of Physics: Conference Series, 2009, 164, 012055. | 0.4 | 9 |
| 93 | Antiproton radiotherapy: peripheral dose from secondary neutrons. , 2009, , 661-666. | | 0 |
| 94 | Verifying the WEPL Approximation for Several Tissue Substitutes - A Monte Carlo Study. International Journal of Radiation Oncology Biology Physics, 2008, 72, S669. | 0.8 | 0 |
| 95 | Antiproton therapy. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 530-534. | 1.4 | 12 |
| 96 | The antiproton depth–dose curve measured with alanine detectors. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 929-936. | 1.4 | 24 |
| 97 | Antiproton radiotherapy. Radiotherapy and Oncology, 2008, 86, 14-19. | 0.6 | 27 |
| 98 | The antiproton depth–dose curve in water. Physics in Medicine and Biology, 2008, 53, 793-805. | 3.0 | 24 |
| 99 | MO-E-AUD B-02: Antiproton Therapy: Monte Carlo Simulations of Normal Tissue Equivalent Dose From Annihilation Neutrons. Medical Physics, 2008, 35, 2874-2874. | 3.0 | 1 |
| 100 | The biological effectiveness of antiproton irradiation. Radiotherapy and Oncology, 2006, 81, 233-242. | 0.6 | 60 |
| 101 | Bubble detector measurements of a mixed radiation field from antiproton annihilation. Nuclear Instruments & Methods in Physics Research B, 2006, 251, 269-273. | 1.4 | 8 |
| 102 | Cancer Therapy with Antiprotons. AIP Conference Proceedings, 2005, , . | 0.4 | 5 |
| 103 | Biological effectiveness of antiproton annihilation. Nuclear Instruments & Methods in Physics Research B, 2004, 221, 210-214. | 1.4 | 19 |
| 104 | Biological effectiveness of antiproton annihilation. Nuclear Instruments & Methods in Physics Research B, 2004, 214, 181-185. | 1.4 | 17 |