

# Hugo Palmans

## 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.

139  
papers

2,821  
citations

29  
h-index

47  
g-index

194  
ext. papers

3,323  
ext. citations

3  
avg, IF

5.12  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 139 | Monte Carlo computation of 3D distributions of stopping power ratios in light ion beam therapy using GATE-RTion. <i>Medical Physics</i> , <b>2021</b> , 48, 2580-2591  | 4.4 | 0         |
| 138 | Correction of the measured current of a small-gap plane-parallel ionization chamber in proton beams in the presence of charge multiplication. <i>Zeitschrift Fur Medizinische Physik</i> , <b>2021</b> , 31, 192-202 | 7.6 | 1         |
| 137 | Results of an independent dosimetry audit for scanned proton beam therapy facilities. <i>Zeitschrift Fur Medizinische Physik</i> , <b>2021</b> , 31, 145-153   | 7.6 | 0         |
| 136 | The practical radius of a pencil beam in proton therapy. <i>Zeitschrift Fur Medizinische Physik</i> , <b>2021</b> , 31, 166-174  | 7.6 | 1         |
| 135 | Beam monitor calibration of a synchrotron-based scanned light-ion beam delivery system. <i>Zeitschrift Fur Medizinische Physik</i> , <b>2021</b> , 31, 154-165   | 7.6 | 6         |
| 134 | MR-guided proton therapy: Impact of magnetic fields on the detector response. <i>Medical Physics</i> , <b>2021</b> , 48, 2572-2579   | 4.4 | 1         |
| 133 | Reply to comment on Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,                          | 3.8 |           |
| 132 | Dose calculation accuracy in particle therapy: Comparing carbon ions with protons. <i>Medical Physics</i> , <b>2021</b> , 48, 7333-7345  | 4.4 | 0         |
| 131 | Time-resolved dosimetry for validation of 4D dose calculation in PBS proton therapy. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 125015   | 3.8 | 0         |
| 130 | Characterization of the PTW-34089 type 147 mm diameter large-area ionization chamber for use in light-ion beams. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 17NT02                                   | 3.8 | 2         |
| 129 | The challenge of ionisation chamber dosimetry in ultra-short pulsed high dose-rate Very High Energy Electron beams. <i>Scientific Reports</i> , <b>2020</b> , 10, 9089   | 4.9 | 17        |
| 128 | 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> , <b>2020</b> , 47, 2289-2299                  | 4.4 | 8         |
| 127 | Characterization of a pixelated silicon microdosimeter in micro-beams of light ions. <i>Radiation Measurements</i> , <b>2020</b> , 133, 106296   | 1.5 | 3         |
| 126 | A GATE/Geant4 beam model for the MedAustron non-isocentric proton treatment plans quality assurance. <i>Physica Medica</i> , <b>2020</b> , 71, 115-123   | 2.7 | 9         |
| 125 | The influence of lack of reference conditions on dosimetry in pre-clinical radiotherapy with medium energy x-ray beams. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 085016                            | 3.8 | 4         |
| 124 | Characterizing Radiation Effectiveness in Ion-Beam Therapy Part II: Microdosimetric Detectors. <i>Frontiers in Physics</i> , <b>2020</b> , 8,  | 3.9 | 1         |
| 123 | Absorbed dose calorimetry. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 05TR02   | 3.8 | 10        |

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| 122 | An analytical formalism for the assessment of dose uncertainties due to positioning uncertainties. <i>Medical Physics</i> , <b>2020</b> , 47, 1357-1363  | 4.4 | 3  |
| 121 | Clinical implementation and commissioning of the MedAustron Particle Therapy Accelerator for non-isocentric scanned proton beam treatments. <i>Medical Physics</i> , <b>2020</b> , 47, 380-392         | 4.4 | 10 |
| 120 | Gradient corrections for reference dosimetry using Farmer-type ionization chambers in single-layer scanned proton fields. <i>Medical Physics</i> , <b>2020</b> , 47, 6531-6539                         | 4.4 | 0  |
| 119 | Three-voltage linear method to determine ion recombination in proton and light-ion beams. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 045015  | 3.8 | 8  |
| 118 | SP-0238 TRS 483: past, present and future. <i>Radiotherapy and Oncology</i> , <b>2019</b> , 133, S118-S119   | 5.3 |    |
| 117 | Phantom design and dosimetric characterization for multiple simultaneous cell irradiations with active pencil beam scanning. <i>Radiation and Environmental Biophysics</i> , <b>2019</b> , 58, 563-573 | 2   | 6  |
| 116 | The influence of nuclear interactions on ionization chamber perturbation factors in proton beams: FLUKA simulations supported by a Fano test. <i>Medical Physics</i> , <b>2019</b> , 46, 885-891       | 4.4 | 8  |
| 115 | Characterization of EBT3 radiochromic films for dosimetry of proton beams in the presence of magnetic fields. <i>Medical Physics</i> , <b>2019</b> , 46, 3278-3284                                     | 4.4 | 6  |
| 114 | Evaluation of electromagnetic and nuclear scattering models in GATE/Geant4 for proton therapy. <i>Medical Physics</i> , <b>2019</b> , 46, 2444-2456  | 4.4 | 20 |
| 113 | Reply to Comment on Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 198002     | 3.8 | 2  |
| 112 | Commissioning of pencil beam and Monte Carlo dose engines for non-isocentric treatments in scanned proton beam therapy. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 17NT01              | 3.8 | 9  |
| 111 | Dynamic lung phantom commissioning for 4D dose assessment in proton therapy. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 235001   | 3.8 | 4  |
| 110 | On the conversion of dose to bone to dose to water in radiotherapy treatment planning systems. <i>Physics and Imaging in Radiation Oncology</i> , <b>2018</b> , 5, 26-30                               | 3.1 | 27 |
| 109 | Characteristic of EBT-XD and EBT3 radiochromic film dosimetry for photon and proton beams. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 065007   | 3.8 | 46 |
| 108 | End-to-end tests using alanine dosimetry in scanned proton beams. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 055001  | 3.8 | 8  |
| 107 | Implementation of dosimetry equipment and phantoms at the MedAustron light ion beam therapy facility. <i>Medical Physics</i> , <b>2018</b> , 45, 352-369   | 4.4 | 20 |
| 106 | Dose detectors, sensors, and their applications. <i>Medical Physics</i> , <b>2018</b> , 45, e1051-e1072  | 4.4 | 14 |
| 105 | Reply to "Comments on the TRS-483 Protocol on Small field Dosimetry" [Med. Phys. 45(12), 5666-5668 (2018)]. <i>Medical Physics</i> , <b>2018</b> , 45, 5669-5671                                       | 4.4 | 4  |

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| 104 | Dosimetry of small static fields used in external photon beam radiotherapy: Summary of TRS-483, the IAEA-AAPM international Code of Practice for reference and relative dose determination. <i>Medical Physics</i> , <b>2018</b> , 45, e1123-e1145 | 4.4 | 97 |
| 103 | Characterization of PTW-31015 PinPoint ionization chambers in photon and proton beams. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 185020   | 3.8 | 9  |
| 102 | Fluence correction factor for graphite calorimetry in a clinical high-energy carbon-ion beam. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, N134-N146   | 3.8 | 3  |
| 101 | Monte Carlo simulation of a TEPC for microdosimetry of carbon ions. <i>Radiation Physics and Chemistry</i> , <b>2017</b> , 140, 412-418  | 2.5 | 3  |
| 100 | Coupling Monte Carlo simulations with thermal analysis for correcting microdosimetric spectra from a novel micro-calorimeter. <i>Radiation Physics and Chemistry</i> , <b>2017</b> , 140, 406-411  | 2.5 | 2  |
| 99  | Evaluation of the water-equivalence of plastic materials in low- and high-energy clinical proton beams. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 3883-3901   | 3.8 | 14 |
| 98  | 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> , <b>2017</b> , 62, 5365-5382  | 3.8 | 16 |
| 97  | Monte Carlo calculated correction factors for the NPL proton calorimeter. <i>Radiation Physics and Chemistry</i> , <b>2017</b> , 140, 383-385  | 2.5 | 1  |
| 96  | Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 9189-9206   | 3.8 | 19 |
| 95  | Abstract ID: 169 Monte Carlo calculated correction factors for a proton calorimeter in clinical proton beams. <i>Physica Medica</i> , <b>2017</b> , 42, 35-36  | 2.7 | 0  |
| 94  | Consistency in quality correction factors for ionization chamber dosimetry in scanned proton beam therapy. <i>Medical Physics</i> , <b>2017</b> , 44, 4919-4927  | 4.4 | 9  |
| 93  | Response of synthetic diamond detectors in proton, carbon, and oxygen ion beams. <i>Medical Physics</i> , <b>2017</b> , 44, 5445-5449  | 4.4 | 7  |
| 92  | EP-1467: IPEM Code of Practice for proton and ion beam dosimetry: update on work in progress. <i>Radiotherapy and Oncology</i> , <b>2017</b> , 123, S783-S784  | 5.3 | 2  |
| 91  | Equivalent (uniform) square field sizes of flattening filter free photon beams. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 7694-7713   | 3.8 | 2  |
| 90  | Light-Ion Beam Dosimetry <b>2017</b> , 301-328   |     |    |
| 89  | Experimental and Monte Carlo studies of fluence corrections for graphite calorimetry in low- and high-energy clinical proton beams. <i>Medical Physics</i> , <b>2016</b> , 43, 4122  | 4.4 | 8  |
| 88  | Comment on Proton beam monitor chamber calibrations <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 6585-6593   | 3.8 | 9  |
| 87  | On the Monte Carlo simulation of small-field micro-diamond detectors for megavoltage photon dosimetry. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, L1-L10   | 3.8 | 42 |

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| 86 | SU-D-BRC-06: Experimental and Monte Carlo Studies of Fluence Corrections for Graphite Calorimetry in Proton Therapy. <i>Medical Physics</i> , <b>2016</b> , 43, 3337-3337                       | 4.4 |    |
| 85 | Under-response of a PTW-60019 microDiamond detector in the Bragg peak of a 62 MeV/n carbon ion beam. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 4551-63                         | 3.8 | 6  |
| 84 | Theoretical and experimental characterization of novel water-equivalent plastics in clinical high-energy carbon-ion beams. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 7623-7638 | 3.8 | 4  |
| 83 | Comment on "Experimental determination of the PTW 60019 microDiamond dosimeter active area and volume" [Med. Phys. 43, 5205-5212 (2016)]. <i>Medical Physics</i> , <b>2016</b> , 43, 6667       | 4.4 | 7  |
| 82 | Development and application of a water calorimeter for the absolute dosimetry of short-range particle beams. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 6602-6619               | 3.8 | 10 |
| 81 | Beam monitor calibration in scanned light-ion beams. <i>Medical Physics</i> , <b>2016</b> , 43, 5835  | 4.4 | 37 |
| 80 | Technical Note: On the impact of the incident electron beam energy on the primary dose component of flattening filter free photon beams. <i>Medical Physics</i> , <b>2016</b> , 43, 4507        | 4.4 | 3  |
| 79 | Ion recombination correction in carbon ion beams. <i>Medical Physics</i> , <b>2016</b> , 43, 4198   | 4.4 | 15 |
| 78 | LET dependence of the response of a PTW-60019 microDiamond detector in a 62MeV proton beam. <i>Physica Medica</i> , <b>2016</b> , 32, 1135-8  | 2.7 | 4  |
| 77 | Detector dose response in megavoltage small photon beams. II. Pencil beam perturbation effects. <i>Medical Physics</i> , <b>2015</b> , 42, 6048-61  | 4.4 | 43 |
| 76 | Future development of biologically relevant dosimetry. <i>British Journal of Radiology</i> , <b>2015</b> , 88, 20140392   | 3.4 | 43 |
| 75 | Detector dose response in megavoltage small photon beams. I. Theoretical concepts. <i>Medical Physics</i> , <b>2015</b> , 42, 6033-47   | 4.4 | 70 |
| 74 | Investigating ionisation cluster size distribution due to sub-1 keV electrons in view of Heisenberg's Uncertainty. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 633, 012002     | 0.3 |    |
| 73 | The alanine detector in BNCT dosimetry: dose response in thermal and epithermal neutron fields. <i>Medical Physics</i> , <b>2015</b> , 42, 400-11   | 4.4 | 18 |
| 72 | SU-F-BRD-15: Quality Correction Factors in Scanned Or Broad Proton Therapy Beams Are Indistinguishable. <i>Medical Physics</i> , <b>2015</b> , 42, 3529-3529                                    | 4.4 | 1  |
| 71 | PO-0790: Theoretical models for volume recombination in scanned proton beams. <i>Radiotherapy and Oncology</i> , <b>2014</b> , 111, S56   | 5.3 | 2  |
| 70 | Biologically Weighted Quantities in Radiotherapy: an EMRP Joint Research Project. <i>EPJ Web of Conferences</i> , <b>2014</b> , 77, 00021   | 0.3 | 9  |
| 69 | Confirmation of a realistic reactor model for BNCT dosimetry at the TRIGA Mainz. <i>Medical Physics</i> , <b>2014</b> , 41, 111706  | 4.4 | 6  |

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| 68 | Detector to detector corrections: a comprehensive experimental study of detector specific correction factors for beam output measurements for small radiotherapy beams. <i>Medical Physics</i> , <b>2014</b> , 41, 072103                      | 4.4 | 105 |
| 67 | Reference dosimetry for light-ion beams based on graphite calorimetry. <i>Radiation Protection Dosimetry</i> , <b>2014</b> , 161, 92-5   | 0.9 | 4   |
| 66 | SU-E-T-408: Determination of KQ,Q0-Factors From Water and Graphite Calorimetry in a 60 MeV Proton Beam. <i>Medical Physics</i> , <b>2014</b> , 41, 319-319   | 4.4 | 3   |
| 65 | SU-E-T-464: On the Equivalence of the Quality Correction Factor for Pencil Beam Scanning Proton Therapy. <i>Medical Physics</i> , <b>2014</b> , 41, 333-333  | 4.4 | 1   |
| 64 | Detector comparison for small field output factor measurements in flattening filter free photon beams. <i>Radiotherapy and Oncology</i> , <b>2013</b> , 109, 356-60  | 5.3 | 64  |
| 63 | Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , <b>2013</b> , 108, 99-106  | 5.3 | 19  |
| 62 | 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> , <b>2013</b> , 58, 3481-99  | 3.8 | 16  |
| 61 | Consistency in reference radiotherapy dosimetry: resolution of an apparent conundrum when <sup>60</sup> Co is the reference quality for charged-particle and photon beams. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 6593-621 | 3.8 | 39  |
| 60 | Conversion from dose-to-graphite to dose-to-water in an 80 MeV/A carbon ion beam. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 5363-80   | 3.8 | 10  |
| 59 | Correction factors for ionization chamber dosimetry in CyberKnife: machine-specific, plan-class, and clinical fields. <i>Medical Physics</i> , <b>2013</b> , 40, 011721  | 4.4 | 10  |
| 58 | SU-C-137-05: Reference Dosimetry for An 80 MeV/n Carbon Ion Beam Based On Graphite Calorimetry. <i>Medical Physics</i> , <b>2013</b> , 40, 85-85   | 4.4 |     |
| 57 | Water equivalence of some plastic-water phantom materials for clinical proton beam dosimetry. <i>Applied Radiation and Isotopes</i> , <b>2012</b> , 70, 1052-7   | 1.7 | 8   |
| 56 | On charged particle equilibrium violation in external photon fields. <i>Medical Physics</i> , <b>2012</b> , 39, 1473-80  | 4.4 | 16  |
| 55 | Determination of the beam quality index of high-energy photon beams under nonstandard reference conditions. <i>Medical Physics</i> , <b>2012</b> , 39, 5513-9  | 4.4 | 21  |
| 54 | An absorbed dose calorimeter for IMRT dosimetry. <i>Metrologia</i> , <b>2012</b> , 49, S168-S173   | 2.1 | 16  |
| 53 | NPL's new absorbed dose standard for the calibration of HDR192Ir brachytherapy sources. <i>Metrologia</i> , <b>2012</b> , 49, S184-S188  | 2.1 | 11  |
| 52 | Comments on The effective depth of cylindrical ionization chambers in water for clinical proton beams. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 7219-24  | 3.8 | 2   |
| 51 | Correction factors for A1SL ionization chamber dosimetry in TomoTherapy: machine-specific, plan-class, and clinical fields. <i>Medical Physics</i> , <b>2012</b> , 39, 1964-70   | 4.4 | 24  |

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| 50 | Poster - Thur Eve - 46: The upcoming international code of practice for small static photon field dosimetry. <i>Medical Physics</i> , <b>2012</b> , 39, 4633   | 4.4 |                 |
| 49 | SU-E-T-146: Reference Dosimetry for Protons and Light-Ion Beams Based on Graphite Calorimetry. <i>Medical Physics</i> , <b>2012</b> , 39, 3736-3737  | 4.4 | 1               |
| 48 | TH-E-BRB-05: Best in Physics (Therapy) - an International Code of Practice for the Dosimetry of Small Static Photon Fields. <i>Medical Physics</i> , <b>2012</b> , 39, 4009-4010   | 4.4 | 2               |
| 47 | Dose determination using alanine detectors in a mixed neutron and gamma field for boron neutron capture therapy of liver malignancies. <i>Acta Oncologica</i> , <b>2011</b> , 50, 817-22   | 3.2 | 11              |
| 46 | Dose response of alanine detectors irradiated with carbon ion beams. <i>Medical Physics</i> , <b>2011</b> , 38, 1859-66  | 4.4 | 23              |
| 45 | Fluence correction factors and stopping power ratios for clinical ion beams. <i>Acta Oncologica</i> , <b>2011</b> , 50, 797-805  | 3.2 | 21              |
| 44 | Design concept for a novel SQUID-based microdosimeter. <i>Radiation Protection Dosimetry</i> , <b>2011</b> , 143, 427-31   | 0.9 | 13              |
| 43 | Radiochromic film spectroscopy of laser-accelerated proton beams using the FLUKA code and dosimetry traceable to primary standards. <i>Laser and Particle Beams</i> , <b>2011</b> , 29, 231-239  | 0.9 | 28              |
| 42 | Dosimetry. <i>Series in Medical Physics and Biomedical Engineering</i> , <b>2011</b> , 191-220   |     | 2               |
| 41 | LET dependence of GafChromic films and an ion chamber in low-energy proton dosimetry. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 417-33  | 3.8 | 87              |
| 40 | Dose calculation in biological samples in a mixed neutron-gamma field at the TRIGA reactor of the University of Mainz. <i>Acta Oncologica</i> , <b>2010</b> , 49, 1165-9   | 3.2 | 11              |
| 39 | Ion recombination for ionization chamber dosimetry in a helical tomotherapy unit. <i>Medical Physics</i> , <b>2010</b> , 37, 2876-89   | 4.4 | 37              |
| 38 | Point/counterpoint. Medical physics should adopt double-blind peer review of all manuscripts. <i>Medical Physics</i> , <b>2010</b> , 37, 5151-4  | 4.4 |                 |
| 37 | Dosimetry for ion beam radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, R193-234   | 3.8 | 125             |
| 36 | Water equivalence of various materials for clinical proton dosimetry by experiment and Monte Carlo simulation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 619, 344-347 | 1.2 | 19              |
| 35 | SU-EE-A2-02: Present Status of IAEA/AAPM Recommendations on Small and Composite Field Dosimetry. <i>Medical Physics</i> , <b>2010</b> , 37, 3096-3096  | 4.4 | 4               |
| 34 | Analysis of dose perturbation factors of a NACP-02 ionization chamber in clinical electron beams. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 307-26  | 3.8 | 8               |
| 33 | A new formalism for reference dosimetry of small and nonstandard fields. <i>Medical Physics</i> , <b>2008</b> , 35, 5179-86  | 4.4 | 39 <sup>1</sup> |

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| 32 | Validation of a Monte Carlo model of a NACP-02 plane-parallel ionization chamber model using electron backscatter experiments. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, N119-26   | 3.8 | 14 |
| 31 | The antiproton depth-dose curve measured with alanine detectors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 929-936  | 1.2 | 22 |
| 30 | Perturbation factors for cylindrical ionization chambers in proton beams. Part I: corrections for gradients. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 3483-501  | 3.8 | 27 |
| 29 | Ion recombination correction in the Clatterbridge Centre of Oncology clinical proton beam. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 903-17  | 3.8 | 37 |
| 28 | An empirical method for the determination of wall perturbation factors for parallel-plate chambers in high-energy electron beams. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 5167-81  | 3.8 | 9  |
| 27 | Perturbation correction factors for the NACP-02 plane-parallel ionization chamber in water in high-energy electron beams. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 1221-35  | 3.8 | 21 |
| 26 | Experimental determination of beam quality factors, kQ, for two types of Farmer chamber in a 10 MV photon and a 175 MeV proton beam. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 1503-21   | 3.8 | 29 |
| 25 | Monte carlo modelling of a clinical proton beam-line for the treatment of ocular tumours. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 562, 1005-1008                         | 1.2 | 14 |
| 24 | SU-FF-T-195: Dosimetry Audit for Tomotherapy Using Alanine/EPR. <i>Medical Physics</i> , <b>2006</b> , 33, 2093-2094  | 4.4 | 12 |
| 23 | Assigning nonelastic nuclear interaction cross sections to Hounsfield units for Monte Carlo treatment planning of proton beams. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 991-1000   | 3.8 | 23 |
| 22 | A small-body portable graphite calorimeter for dosimetry in low-energy clinical proton beams. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 3737-49  | 3.8 | 45 |
| 21 | Monte Carlo model of the Elekta SLiplus accelerator: validation of a new MLC component module in BEAM for a 6 MV beam. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 371-85  | 3.8 | 44 |
| 20 | A dosimetry study comparing NCS report-5, IAEA TRS-381, AAPM TG-51 and IAEA TRS-398 in three clinical electron beam energies. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1091-107   | 3.8 | 5  |
| 19 | Effect of alanine energy response and phantom material on depth dose measurements in ocular proton beams. <i>Technology in Cancer Research and Treatment</i> , <b>2003</b> , 2, 579-86  | 2.7 | 18 |
| 18 | Underdosage of the upper-airway mucosa for small fields as used in intensity-modulated radiation therapy: a comparison between radiochromic film measurements, Monte Carlo simulations, and collapsed cone convolution calculations. <i>Medical Physics</i> , <b>2002</b> , 29, 1528-35 | 4.4 | 77 |
| 17 | Parameter dependence of the MCNP electron transport in determining dose distributions. <i>Medical Physics</i> , <b>2002</b> , 29, 2446-54   | 4.4 | 44 |
| 16 | Dosimetry using plane-parallel ionization chambers in a 75 MeV clinical proton beam. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 2895-905  | 3.8 | 17 |
| 15 | Absorbed dose to water based dosimetry versus air kerma based dosimetry for high-energy photon beams: an experimental study. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 421-40  | 3.8 | 13 |

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| 14 | Beam quality of high-energy photon beams at the Ghent University linear accelerator. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, L15-L18  | 3.8 | 2  |
| 13 | Fluence correction factors in plastic phantoms for clinical proton beams. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 3055-71   | 3.8 | 38 |
| 12 | A systematic Monte Carlo study of secondary electron fluence perturbation in clinical proton beams (70-250 MeV) for cylindrical and spherical ion chambers. <i>Medical Physics</i> , <b>2001</b> , 28, 2088-95 | 4.4 | 22 |
| 11 | Experimental p(wall) and p(cel) correction factors for ionization chambers in low-energy clinical proton beams. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 1187-204                            | 3.8 | 30 |
| 10 | On the effective point of measurement of cylindrical ionization chambers for proton beams and other heavy charged particle beams. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, L20-3             | 3.8 | 15 |
| 9  | Considerations for modelling MLCs with Monte Carlo techniques <b>2000</b> , 458-460  |     | 2  |
| 8  | Absorbed dose beam quality correction factors kappaQ for the NE2571 chamber in a 5 MV and a 10 MV photon beam. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 647-63                               | 3.8 | 29 |
| 7  | Secondary electron fluence perturbation by high-Z interfaces in clinical proton beams: a Monte Carlo study. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 167-83                                  | 3.8 | 11 |
| 6  | Correction factors and performance of a 4 degrees C sealed water calorimeter. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 627-46  | 3.8 | 31 |
| 5  | Dose measurements compared with Monte Carlo simulations of narrow 6 MV multileaf collimator shaped photon beams. <i>Medical Physics</i> , <b>1999</b> , 26, 1874-82  | 4.4 | 65 |
| 4  | Monte Carlo study of fluence perturbation effects on cavity dose response in clinical proton beams. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 65-89   | 3.8 | 33 |
| 3  | Monte Carlo dosimetry study of a 6 MV stereotactic radiosurgery unit. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 2755-68   | 3.8 | 69 |
| 2  | Calculated depth dose distributions for proton beams in some low-Z materials. <i>Physics in Medicine and Biology</i> , <b>1997</b> , 42, 1175-83   | 3.8 | 31 |
| 1  | Water calorimetry and ionization chamber dosimetry in an 85-MeV clinical proton beam. <i>Medical Physics</i> , <b>1996</b> , 23, 643-50  | 4.4 | 34 |