

# Francesco Romano

## List of Publications by Year in descending order

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141  
papers

4,764  
citations

201575

27  
h-index

102432

66  
g-index

145  
all docs

145  
docs citations

145  
times ranked

9203  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Determination of beam quality correction factors for the Roos plane-parallel ionisation chamber exposed to very high energy electron (VHEE) beams using Geant4. <i>Physics in Medicine and Biology</i> , 2022, 67, 065011.   | 1.6 | 0         |
| 2  | Ultra-high dose rate dosimetry: Challenges and opportunities for FLASH radiation therapy. <i>Medical Physics</i> , 2022, 49, 4912-4932.  | 1.6 | 51        |
| 3  | A systematic study of the contribution of counting statistics to the final lineal energy uncertainty in microdosimetry. <i>Physics in Medicine and Biology</i> , 2022, 67, 155002.   | 1.6 | 7         |
| 4  | Report on G4Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. <i>Medical Physics</i> , 2021, 48, 19-56.  | 1.6 | 92        |
| 5  | A Geant4 Fano test for novel very high energy electron beams. <i>Physics in Medicine and Biology</i> , 2021, 66, 245023.   | 1.6 | 2         |
| 6  | TOF diagnosis of laser accelerated, high-energy protons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 978, 164364.   | 0.7 | 15        |
| 7  | The European Joint Research Project UHPulse "Metrology for advanced radiotherapy using particle beams with ultra-high pulse dose rates. <i>Physica Medica</i> , 2020, 80, 134-150.   | 0.4 | 71        |
| 8  | Challenges in dosimetry of particle beams with ultra-high pulse dose rates. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012028.   | 0.3 | 11        |
| 9  | The challenge of ionisation chamber dosimetry in ultra-short pulsed high dose-rate Very High Energy Electron beams. <i>Scientific Reports</i> , 2020, 10, 9089.  | 1.6 | 62        |
| 10 | ELIMED-ELIMAIA: The First Open User Irradiation Beamline for Laser-Plasma-Accelerated Ion Beams. <i>Frontiers in Physics</i> , 2020, 8, .  | 1.0 | 13        |
| 11 | Irradiation and dosimetry arrangement for a radiobiological experiment employing laser-accelerated protons. <i>Journal of Instrumentation</i> , 2019, 14, C10015-C10015.   | 0.5 | 2         |
| 12 | A new energy spectrum reconstruction method for time-of-flight diagnostics of high-energy laser-driven protons. <i>Review of Scientific Instruments</i> , 2019, 90, 083303.  | 0.6 | 19        |
| 13 | Radiobiological quantities in proton-therapy: Estimation and validation using Geant4-based Monte Carlo simulations. <i>Physica Medica</i> , 2019, 58, 72-80.   | 0.4 | 10        |
| 14 | STUDY FOR A PASSIVE SCATTERING LINE DEDICATED TO RADIOBIOLOGY EXPERIMENTS AT THE TRENTO PROTON THERAPY CENTER. <i>Radiation Protection Dosimetry</i> , 2019, 183, 274-279.   | 0.4 | 2         |
| 15 | Geant4 simulation of the ELIMED transport and dosimetry beam line for high-energy laser-driven ion beam multidisciplinary applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 909, 298-302. | 0.7 | 11        |
| 16 | First experimental proof of Proton Boron Capture Therapy (PBCT) to enhance protontherapy effectiveness. <i>Scientific Reports</i> , 2018, 8, 1141.   | 1.6 | 76        |
| 17 | Diagnostics and Dosimetry Solutions for Multidisciplinary Applications at the ELIMAIA Beamline. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1415.   | 1.3 | 12        |
| 18 | ELIMAIA: A Laser-Driven Ion Accelerator for Multidisciplinary Applications. <i>Quantum Beam Science</i> , 2018, 2, 8.  | 0.6 | 49        |

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|----|---|-----|-----------|
| 19 | Miniaturized microdosimeters as LET monitors: First comparison of calculated and experimental data performed at the 62â€MeV/u 12C beam of INFN-LNS with four different detectors. <i>Physica Medica</i> , 2018, 52, 113-121. | 0.4 | 19        |
| 20 | Monte Carlo GEANT4-based application for in vivo RBE study using small animals at LNS-INFN preclinical hadrontherapy facility. <i>Physica Medica</i> , 2018, 54, 173-178.   | 0.4 | 3         |
| 21 | Transversal dose distribution optimization for laser-accelerated proton beam medical applications by means of Geant4. <i>Physica Medica</i> , 2018, 54, 166-172.  | 0.4 | 3         |
| 22 | Proton computed tomography images with algebraic reconstruction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 845, 652-655. | 0.7 | 8         |
| 23 | Characterization of the ELIMED prototype permanent magnet quadrupole system. <i>Journal of Instrumentation</i> , 2017, 12, C01031-C01031.   | 0.5 | 2         |
| 24 | Proton Computed Tomography: iterative image reconstruction and dose evaluation. <i>Journal of Instrumentation</i> , 2017, 12, C01034-C01034.  | 0.5 | 6         |
| 25 | Time of Flight based diagnostics for high energy laser driven ion beams. <i>Journal of Instrumentation</i> , 2017, 12, C03086-C03086.   | 0.5 | 17        |
| 26 | 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        |
| 27 | Prompt gamma-ray emission for future imaging applications in proton-boron fusion therapy. <i>Journal of Instrumentation</i> , 2017, 12, C03059-C03059.  | 0.5 | 8         |
| 28 | The radiobiology of laser-driven particle beams: focus on sub-lethal responses of normal human cells. <i>Journal of Instrumentation</i> , 2017, 12, C03084-C03084.  | 0.5 | 33        |
| 29 | Monte Carlo simulation of the ELIMED beamline using Geant4. <i>Journal of Instrumentation</i> , 2017, 12, C03027-C03027.  | 0.5 | 6         |
| 30 | Study of gamma-ray emission by proton beam interaction with injected Boron atoms for future medical imaging applications. <i>Journal of Instrumentation</i> , 2017, 12, C03049-C03049.  | 0.5 | 10        |
| 31 | TOF technique for laser-driven proton beam diagnostics for the ELIMED beamline. <i>Journal of Instrumentation</i> , 2017, 12, C03044-C03044.  | 0.5 | 7         |
| 32 | Laser-accelerated ion beam diagnostics with TOF detectors for the ELIMED beam line. <i>Journal of Instrumentation</i> , 2017, 12, C02025-C02025.  | 0.5 | 14        |
| 33 | Feasibility study of a novel multi-strip silicon detector for use in proton therapy range verification quality assurance. <i>Radiation Measurements</i> , 2017, 106, 378-384.   | 0.7 | 4         |
| 34 | Faraday cup: absolute dosimetry for ELIMED beam line. <i>Journal of Instrumentation</i> , 2017, 12, C03046-C03046.  | 0.5 | 3         |
| 35 | Abstract ID: 35 Monte Carlo dosimetric study for preclinical small animal hadrontherapy using Geant4 toolkit. <i>Physica Medica</i> , 2017, 42, 6.  | 0.4 | 0         |
| 36 | Abstract ID: 45 Development and analysis of the track-LET, dose-LET and RBE calculations with a therapeutical proton and ion beams using Geant4 Monte Carlo code. <i>Physica Medica</i> , 2017, 42, 9.                        | 0.4 | 5         |

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|----|--|-----|-----------|
| 37 | Abstract ID: 173 Geant4-based Monte Carlo simulations of a transport beam line for multidisciplinary applications of laser-driven proton beams. <i>Physica Medica</i> , 2017, 42, 36-37.   | 0.4 | 0         |
| 38 | CMOS active pixel sensors response to low energy light ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 875, 35-40.  | 0.7 | 8         |
| 39 | Response of synthetic diamond detectors in proton, carbon, and oxygen ion beams. <i>Medical Physics</i> , 2017, 44, 5445-5449.   | 1.6 | 12        |
| 40 | Validation of Geant4 fragmentation for Heavy Ion Therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 869, 68-75.   | 0.7 | 34        |
| 41 | Preliminary study for small animal preclinical hadrontherapy facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 846, 126-134.                                      | 0.7 | 10        |
| 42 | Comparison of human lung cancer cell radiosensitivity after irradiations with therapeutic protons and carbon ions. <i>Experimental Biology and Medicine</i> , 2017, 242, 1015-1024.  | 1.1 | 14        |
| 43 | Clinical and Research Activities at the CATANA Facility of INFN-LNS: From the Conventional Hadrontherapy to the Laser-Driven Approach. <i>Frontiers in Oncology</i> , 2017, 7, 223.  | 1.3 | 22        |
| 44 | Status of the ELIMED multidisciplinary and medical beam-line at ELI-Beamlines. <i>Journal of Physics: Conference Series</i> , 2017, 777, 012016.   | 0.3 | 2         |
| 45 | Spectral and spatial shaping of a laser-produced ion beam for radiation-biology experiments. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .   | 0.6 | 35        |
| 46 | Proof-of-Principle results of proton computed tomography. , 2016, , .  |     | 2         |
| 47 | Recent developments in Geant4. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 835, 186-225.  | 0.7 | 2,327     |
| 48 | DoPET: an in-treatment monitoring system for proton therapy at 62 MeV. <i>Journal of Instrumentation</i> , 2016, 11, C12029-C12029.  | 0.5 | 4         |
| 49 | Status of the ELIMED Beamline at the ELIMAIA facility. <i>Journal of Instrumentation</i> , 2016, 11, C12052-C12052.  | 0.5 | 4         |
| 50 | Ion recombination correction in carbon ion beams. <i>Medical Physics</i> , 2016, 43, 4198-4208.  | 1.6 | 17        |
| 51 | DoPET: an in-treatment monitoring system for particle therapy. <i>Radiotherapy and Oncology</i> , 2016, 118, S92.  | 0.3 | 0         |
| 52 | Design of the prototype of a beam transport line for handling and selection of low energy laser-driven beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 837, 80-87. | 0.7 | 3         |
| 53 | Measurement of fragmentation cross sections of C <sup>12</sup> ions on a thin gold target with the FIRST apparatus. <i>Physical Review C</i> , 2016, 93, .   | 1.1 | 20        |
| 54 | Characterization of the ELIMED Permanent Magnets Quadrupole system prototype with laser-driven proton beams. <i>Journal of Instrumentation</i> , 2016, 11, T07005-T07005.  | 0.5 | 16        |

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|----|--|-----|-----------|
| 55 | Design of a large acceptance, high efficiency energy selection system for the ELIMAIA beam-line. Journal of Instrumentation, 2016, 11, P08022-P08022.  | 0.5 | 11        |
| 56 | The ELIMED transport and dosimetry beamline for laser-driven ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 153-158.                               | 0.7 | 45        |
| 57 | Designing a range modulator wheel to spread-out the Bragg peak for a passive proton therapy facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 101-108. | 0.7 | 18        |
| 58 | Design and Status of the ELIMED Beam Line for Laser-Driven Ion Beams. Applied Sciences (Switzerland), 2015, 5, 427-445.  | 1.3 | 17        |
| 59 | Design of the ELIMAIA ion collection system. Journal of Instrumentation, 2015, 10, T12001-T12001.  | 0.5 | 20        |
| 60 | Transport and dosimetric solutions for the ELIMED laser-driven beam line. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 796, 99-103.                              | 0.7 | 21        |
| 61 | A Study of Monitoring Performances with the INSIDE System. Acta Physica Polonica A, 2015, 127, 1468-1470.  | 0.2 | 11        |
| 62 | Radiochromic film diagnostics for laser-driven ion beams. , 2015, , .  |     | 3         |
| 63 | Glioblastoma stem cells: radiobiological response to ionising radiations of different qualities. Radiation Protection Dosimetry, 2015, 166, 374-378.   | 0.4 | 11        |
| 64 | The INSIDE Project: Innovative Solutions for In-Beam Dosimetry in Hadrontherapy. Acta Physica Polonica A, 2015, 127, 1465-1467.  | 0.2 | 26        |
| 65 | Fragmentation cross sections at intermediate energies for hadrontherapy and space radiation protection. EPJ Web of Conferences, 2014, 66, 10004.   | 0.1 | 0         |
| 66 | ELIMED: MEDICAL APPLICATION AT ELI-BEAMLINES. STATUS OF THE COLLABORATION AND FIRST RESULTS. Acta Polytechnica, 2014, 54, 285-289.   | 0.3 | 4         |
| 67 | Nuclear reaction measurements on tissue-equivalent materials and GEANT4 Monte Carlo simulations for hadrontherapy. Physics in Medicine and Biology, 2014, 59, 7643-7652.   | 1.6 | 12        |
| 68 | The Energy Selection System for the laser-accelerated proton beams at ELI-Beamlines. Journal of Instrumentation, 2014, 9, C05065-C05065.   | 0.5 | 5         |
| 69 | ELIMED, MEDICAL and multidisciplinary applications at ELI-Beamlines. Journal of Physics: Conference Series, 2014, 508, 012010.   | 0.3 | 19        |
| 70 | Medical research and multidisciplinary applications with laser-accelerated beams: the ELIMED network at ELI-Beamlines. Journal of Instrumentation, 2014, 9, C04026-C04026.   | 0.5 | 0         |
| 71 | Development of a Real-Time, Large Area, High Spatial Resolution Particle Tracker Based on Scintillating Fibers. Advances in High Energy Physics, 2014, 2014, 1-13.   | 0.5 | 2         |
| 72 | Radiation-induced telomere length variations in normal and in Nijmegen Breakage Syndrome cells. International Journal of Radiation Biology, 2014, 90, 45-52.   | 1.0 | 15        |

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|----|--|-----|-----------|
| 73 | Measurement of Fragment Production Cross Sections in the $^{12}\text{C}+^{12}\text{C}$ and $^{12}\text{C}+^{197}\text{Au}$ Reactions at 62 MeV for Hadrontherapy and Space Radiation Protection. Acta Physica Polonica B, 2014, 45, 565.   | 0.3 | 0         |
| 74 | A real-time, large area, high space resolution particle radiography system. Journal of Instrumentation, 2014, 9, C06012-C06012.  | 0.5 | 5         |
| 75 | Reference dosimetry for light-ion beams based on graphite calorimetry. Radiation Protection Dosimetry, 2014, 161, 92-95.   | 0.4 | 7         |
| 76 | Proton range monitoring with in-beam PET: Monte Carlo activity predictions and comparison with cyclotron data. Physica Medica, 2014, 30, 559-569.  | 0.4 | 39        |
| 77 | A Monte Carlo study for the calculation of the average linear energy transfer (LET) distributions for a clinical proton beam line and a radiobiological carbon ion beam line. Physics in Medicine and Biology, 2014, 59, 2863-2882.  | 1.6 | 71        |
| 78 | First full-beam PET acquisitions in proton therapy with a modular dual-head dedicated system. Physics in Medicine and Biology, 2014, 59, 43-60.  | 1.6 | 66        |
| 79 | Calibration and energy resolution study of a high dispersive power Thomson Parabola Spectrometer with monochromatic proton beams. Journal of Instrumentation, 2014, 9, T10003-T10003.  | 0.5 | 12        |
| 80 | Dosimetric characterization of a synthetic single crystal diamond detector in a clinical 62 MeV ocular therapy proton beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 310-317. | 0.7 | 14        |
| 81 | Relative Biological Effectiveness Variation Along Monoenergetic and Modulated Bragg Peaks of a 62-MeV Therapeutic Proton Beam: A Preclinical Assessment. International Journal of Radiation Oncology Biology Physics, 2014, 90, 27-35.   | 0.4 | 178       |
| 82 | Performance of the reconstruction algorithms of the FIRST experiment pixel sensors vertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 34-40.                           | 0.7 | 13        |
| 83 | A new Thomson Spectrometer for high energy laser-driven beams diagnostic. Journal of Instrumentation, 2014, 9, T08001-T08001.  | 0.5 | 7         |
| 84 | OFFSET: Optical Fiber Folded Scintillating Extended Tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 195-202.  | 0.7 | 16        |
| 85 | Development of an energy selector system for laser-driven proton beam applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 87-93.   | 0.7 | 28        |
| 86 | A proton Computed Tomography based medical imaging system. Journal of Instrumentation, 2014, 9, C12009-C12009.   | 0.5 | 19        |
| 87 | An in-beam PET system for monitoring ion-beam therapy: test on phantoms using clinical 62 MeV protons. Journal of Instrumentation, 2014, 9, C04005-C04005.   | 0.5 | 27        |
| 88 | Recent results on the development of a proton computed tomography system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 573-576.   | 0.7 | 31        |
| 89 | The PRIMA collaboration: Preliminary results in FBP reconstruction of pCT data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 730, 184-190.   | 0.7 | 29        |
| 90 | Full in-beam PET measurements of 62MeV protons onto a PMMA target. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 151-153.  | 0.7 | 9         |

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|-----|---|-----|-----------|
| 91  | Status report of the Thomson spectrometer for LLLIA experiment. Applied Surface Science, 2013, 274, 401-404.  | 3.1 | 1         |
| 92  | The PRIMA (PRoton IMAGING) collaboration: Development of a proton Computed Tomography apparatus. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 730, 178-183. | 0.7 | 34        |
| 93  | ELIMED, future hadrontherapy applications of laser-accelerated beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 730, 174-177.                            | 0.7 | 32        |
| 94  | A proton Computed Tomography system for medical applications. Journal of Instrumentation, 2013, 8, C02021-C02021.   | 0.5 | 13        |
| 95  | Beam handling and transport solutions. , 2013, , .  |     | 3         |
| 96  | Investigations of DNA damage induction and repair resulting from cellular exposure to high dose-rate pulsed proton beams. , 2013, , .   |     | 0         |
| 97  | Comparison of the biological effectiveness of 45 MeV C-ions and $\hat{I}^3$ -rays in inducing early and late effects in normal human primary fibroblasts. , 2013, , .   |     | 0         |
| 98  | High-energy resolution Thomson Parabola spectrometer for laser plasma diagnostics. , 2013, , .  |     | 0         |
| 99  | Monte Carlo simulation for the transport beamline. , 2013, , .  |     | 5         |
| 100 | Absolute and relative dosimetry for ELIMED. , 2013, , .   |     | 2         |
| 101 | Spatio-temporal radiation biology with conventionally or laser-accelerated particles for ELIMED. , 2013, , .  |     | 0         |
| 102 | Conversion from dose-to-graphite to dose-to-water in an 80 MeV/A carbon ion beam. Physics in Medicine and Biology, 2013, 58, 5363-5380.   | 1.6 | 10        |
| 103 | ELIMED: a new hadron therapy concept based on laser driven ion beams. Proceedings of SPIE, 2013, , .  | 0.8 | 13        |
| 104 | Experiment FIRST: Fragmentation of $^{12}\text{C}$ beam at 400 MeV/u. , 2013, , .   |     | 0         |
| 105 | Towards a large area apparatus for Proton Computed Tomography. , 2013, , .  |     | 0         |
| 106 | Antiproton induced DNA damage: proton like in flight, carbon-ion like near rest. Scientific Reports, 2013, 3, 1770.   | 1.6 | 21        |
| 107 | Development of a scintillation-fiber detector for real-time particle tracking. Journal of Instrumentation, 2013, 8, P04015-P04015.  | 0.5 | 8         |
| 108 | FIRST experiment: Fragmentation of Ions Relevant for Space and Therapy. Journal of Physics: Conference Series, 2013, 420, 012061.   | 0.3 | 9         |

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|-----|---|-----|-----------|
| 109 | New methods for high current fast ion beam production by laser-driven acceleration. Review of Scientific Instruments, 2012, 83, 02B307.   | 0.6 | 7         |
| 110 | Charged particle <sup>+</sup> flux measurement from PMMA irradiated by 80 MeV/u carbon ion beam. Physics in Medicine and Biology, 2012, 57, 5667-5678.                            | 1.6 | 37        |
| 111 | The PRIMA (Proton Imaging) collaboration: Status of the development of a proton Computed Tomography Scanner. , 2012, , .  |     | 2         |
| 112 | A real time, large area, high spatial resolution tracker based on square scintillating fibers. , 2012, , .  |     | 1         |
| 113 | Charged and Neutral Particles Production from 80 MeV/u <sup>12</sup> C ion beam on a PMMA target. , 2012, , .   |     | 0         |
| 114 | The KENTROS detector for identification and kinetic energy measurements of nuclear fragments at polar angles between 5 and 90 degrees. , 2012, , .                                |     | 0         |
| 115 | PRIMA proton imaging for clinical application. , 2012, , .  |     | 4         |
| 116 | ELIMED a new concept of hadrontherapy with laser-driven beams. , 2012, , .  |     | 4         |
| 117 | Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation. Journal of Instrumentation, 2012, 7, P03001-P03001.                                      | 0.5 | 26        |
| 118 | Carbon fragmentation measurements and validation of the Geant4 nuclear reaction models for hadrontherapy. Physics in Medicine and Biology, 2012, 57, 7651-7671.                   | 1.6 | 53        |
| 119 | Performance of upstream interaction region detectors for the FIRST experiment at GSI. Journal of Instrumentation, 2012, 7, P02006-P02006.   | 0.5 | 14        |
| 120 | 216 RADIO-RESISTANT HUMAN MALIGNANT CELLS AFTER IRRADIATIONS WITH 1H AND 12C IONS OF DIFFERENT LET. Radiotherapy and Oncology, 2012, 102, S108-S109.                              | 0.3 | 1         |
| 121 | Thermoluminescence response of sodalime glass irradiated with proton and neutron beams. Nuclear Instruments & Methods in Physics Research B, 2012, 292, 55-58.                    | 0.6 | 18        |
| 122 | Development of a Proton Computed Tomography system for pre-clinical tests. , 2012, , .  |     | 1         |
| 123 | The FIRST experiment at GSI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 678, 130-138. | 0.7 | 30        |
| 124 | Study of the time and space distribution of emitters from carbon ion beam irradiation on PMMA. Nuclear Instruments & Methods in Physics Research B, 2012, 283, 1-8.               | 0.6 | 15        |
| 125 | SU-E-T-146: Reference Dosimetry for Protons and Light-Ion Beams Based on Graphite Calorimetry. Medical Physics, 2012, 39, 3736-3737.  | 1.6 | 1         |
| 126 | Tomographic images by proton Computed Tomography system for proton therapy applications. , 2011, , .  |     | 7         |

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|-----|---|-----|-----------|
| 127 | The FIRST experiment for nuclear fragmentation measurements at GSI. , 2011, , .   |     | 2         |
| 128 | PRIMA: An apparatus for medical application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 658, 73-77.   | 0.7 | 21        |
| 129 | YAG(Ce) crystal characterization with proton beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 349-353.  | 0.7 | 12        |
| 130 | CATANA protontherapy facility: The state of art of clinical and dosimetric experience. European Physical Journal Plus, 2011, 126, 1.  | 1.2 | 48        |
| 131 | The FIRST experiment: interaction region and MAPS vertex detector. Nuclear Physics, Section B, Proceedings Supplements, 2011, 215, 157-161.   | 0.5 | 7         |
| 132 | Measurement of prompt photons and gamma PET from 80 MeV/u carbon beam on PMMA target. , 2011, , .   |     | 0         |
| 133 | Hadrontherapy: a Geant4-Based Tool for Proton/Ion-Therapy Studies. Progress in Nuclear Science and Technology, 2011, 2, 207-212.  | 0.3 | 65        |
| 134 | Recent Improvements in Geant4 Electromagnetic Physics Models and Interfaces. Progress in Nuclear Science and Technology, 2011, 2, 898-903.  | 0.3 | 87        |
| 135 | Validation of the Geant4 electromagnetic photon cross-sections for elements and compounds. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 618, 315-322. | 0.7 | 86        |
| 136 | Characterization of an In-Beam PET Prototype for Proton Therapy With Different Target Compositions. IEEE Transactions on Nuclear Science, 2010, 57, 1563-1569.  | 1.2 | 13        |
| 137 | Hadrontherapy: An open source, Geant4-based application for proton-ion therapy studies. , 2009, , .   |     | 5         |
| 138 | Medipix2 as a tool for proton beam characterization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 48-50.   | 0.7 | 12        |
| 139 | Validation of Geant4 hadronic physics models at intermediate energies. , 2008, , .  |     | 0         |
| 140 | Characterization of an in-beam PET prototype for proton therapy with different target composition. , 2008, , .  |     | 0         |
| 141 | Geant4-based Monte Carlo Simulation of the Leksell Gamma Knife&#x00AE;, , 2007, , .   |     | 6         |