

# Wayne Newhauser

## List of Publications by Year in descending order

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33  
papers

907  
citations

567144

15  
h-index

454834

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monte Carlo study of neutron dose equivalent during passive scattering proton therapy. <i>Physics in Medicine and Biology</i> , 2007, 52, 4481-4496.	1.6	109
2	Monte Carlo simulations for configuring and testing an analytical proton dose-calculation algorithm. <i>Physics in Medicine and Biology</i> , 2007, 52, 4569-4584.	1.6	98
3	Proton therapy for adults with mediastinal lymphomas: the International Lymphoma Radiation Oncology Group guidelines. <i>Blood</i> , 2018, 132, 1635-1646.	0.6	86
4	Monte Carlo simulations of the dosimetric impact of radiopaque fiducial markers for proton radiotherapy of the prostate. <i>Physics in Medicine and Biology</i> , 2007, 52, 2937-2952.	1.6	83
5	Equivalent dose and effective dose from stray radiation during passively scattered proton radiotherapy for prostate cancer. <i>Physics in Medicine and Biology</i> , 2008, 53, 1677-1688.	1.6	83
6	Monte Carlo simulations of neutron spectral fluence, radiation weighting factor and ambient dose equivalent for a passively scattered proton therapy unit. <i>Physics in Medicine and Biology</i> , 2008, 53, 187-201.	1.6	63
7	Dose perturbations from implanted helical gold markers in proton therapy of prostate cancer. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 63-70.	0.8	55
8	Monte Carlo simulations of stray neutron radiation exposures in proton therapy. <i>Journal of Nuclear Materials</i> , 2007, 361, 289-297.	1.3	42
9	Anonymization of DICOM electronic medical records for radiation therapy. <i>Computers in Biology and Medicine</i> , 2014, 53, 134-140.	3.9	40
10	A treatment planning comparison of volumetric modulated arc therapy and proton therapy for a sample of breast cancer patients treated with post-mastectomy radiotherapy. <i>Journal of Proton Therapy</i> , 2016, 1, 119.	0.6	24
11	Predictive Risk of Radiation Induced Cerebral Necrosis in Pediatric Brain Cancer Patients after VMAT Versus Proton Therapy. <i>Cancers</i> , 2015, 7, 617-630.	1.7	23
12	A Clarion Call for Large-Scale Collaborative Studies of Pediatric Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 980-981.	0.4	23
13	Monte Carlo simulation of the neutron spectral fluence and dose equivalent for use in shielding a proton therapy vault. <i>Physics in Medicine and Biology</i> , 2009, 54, 6943-6957.	1.6	20
14	Monte Carlo and analytical model predictions of leakage neutron exposures from passively scattered proton therapy. <i>Medical Physics</i> , 2013, 40, 121714.	1.6	18
15	Radiation-induced cancer risk predictions in proton and heavy ion radiotherapy. <i>Physica Medica</i> , 2017, 42, 259-262.	0.4	18
16	An Analytical Model of Leakage Neutron Equivalent Dose for Passively-Scattered Proton Radiotherapy and Validation with Measurements. <i>Cancers</i> , 2015, 7, 795-810.	1.7	14
17	Implementation of an Analytical Model for Leakage Neutron Equivalent Dose in a Proton Radiotherapy Planning System. <i>Cancers</i> , 2015, 7, 427-438.	1.7	14
18	Inter-Institutional Comparison of Personalized Risk Assessments for Second Malignant Neoplasms for a 13-Year-Old Girl Receiving Proton versus Photon Craniospinal Irradiation. <i>Cancers</i> , 2015, 7, 407-426.	1.7	14

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19	Normal tissue damage: its importance, history and challenges for the future. British Journal of Radiology, 2019, 92, 20180048.	1.0	12
20	A modular dose delivery system for treating moving targets with scanned ion beams: Performance and safety characteristics, and preliminary tests. Physica Medica, 2020, 76, 307-316.	0.4	12
21	Everything you wanted to know about space radiation but were afraid to ask. Journal of Environmental Science and Health, Part C: Toxicology and Carcinogenesis, 2021, 39, 113-128.	0.4	8
22	Grid-Enabled Treatment Planning for Proton Therapy Using Monte Carlo Simulations. Nuclear Technology, 2011, 175, 16-21.	0.7	7
23	Tumour size can have an impact on the outcomes of epidemiological studies on second cancers after radiotherapy. Radiation and Environmental Biophysics, 2018, 57, 311-319.	0.6	7
24	Three discipline collaborative radiation therapy (3DCRT) special debate: The United States should build additional proton therapy facilities. Journal of Applied Clinical Medical Physics, 2019, 20, 7-12.	0.8	7
25	Reducing the Cost of Proton Radiation Therapy: The Feasibility of a Streamlined Treatment Technique for Prostate Cancer. Cancers, 2015, 7, 688-705.	1.7	6
26	Dosimetric Validation of a System to Treat Moving Tumors Using Scanned Ion Beams That Are Synchronized With Anatomical Motion. Frontiers in Oncology, 2021, 11, 712126.	1.3	5
27	A Modular System for Treating Moving Anatomical Targets With Scanned Ion Beams at Multiple Facilities: Pre-Clinical Testing for Quality and Safety of Beam Delivery. Frontiers in Oncology, 2021, 11, 620388.	1.3	4
28	Personalized 3D-printed anthropomorphic phantoms for dosimetry in charged particle fields. Physics in Medicine and Biology, 2021, 66, .	1.6	3
29	Preliminary tests of dosimetric quality and projected therapeutic outcomes of multi-phase 4D radiotherapy with proton and carbon ion beams. Physics in Medicine and Biology, 2021, 66, 235004.	1.6	3
30	Reply to "Comments on "Calculation of water equivalent thickness of materials of arbitrary density, elemental composition and thickness in proton beam irradiation". Physics in Medicine and Biology, 2010, 55, L31-L32.	1.6	2
31	Impact of multileaf collimator configuration parameters on the dosimetric accuracy of 6-MV Intensity-Modulated radiation therapy treatment plans. Journal of Medical Physics, 2017, 42, 151.	0.1	2
32	A patient-specific hybrid phantom for calculating radiation dose and equivalent dose to the whole body. Physics in Medicine and Biology, 2022, 67, 035005.	1.6	2
33	Cell-shaped silicon-on-insulator microdosimeters: characterization and response to <sup>239</sup> PuBe irradiations. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 667-673.	1.4	0