

Alfredo Mirandola

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,098
citations

471061

17
h-index

433756

31
g-index

65
all docs

65
docs citations

65
times ranked

1281
citing authors

#	ARTICLE	IF	CITATIONS
1	Dosimetric commissioning and quality assurance of scanned ion beams at the Italian National Center for Oncological Hadrontherapy. <i>Medical Physics</i> , 2015, 42, 5287-5300.	1.6	116
2	Dose prescription in carbon ion radiotherapy: a planning study to compare NIRS and LEM approaches with a clinically-oriented strategy. <i>Physics in Medicine and Biology</i> , 2012, 57, 7543-7554.	1.6	95
3	Characterization of a commercial scintillation detector for 2-D dosimetry in scanned proton and carbon ion beams. <i>Physica Medica</i> , 2017, 34, 48-54.	0.4	75
4	The CNAO dose delivery system for modulated scanning ion beam radiotherapy. <i>Medical Physics</i> , 2015, 42, 263-275.	1.6	72
5	Dose prescription in carbon ion radiotherapy: How to compare two different RBE-weighted dose calculation systems. <i>Radiotherapy and Oncology</i> , 2016, 120, 307-312.	0.3	66
6	Dosimetric accuracy assessment of a treatment plan verification system for scanned proton beam radiotherapy: one-year experimental results and Monte Carlo analysis of the involved uncertainties. <i>Physics in Medicine and Biology</i> , 2013, 58, 3837-3847.	1.6	65
7	Dose response of EBT3 radiochromic films to proton and carbon ion clinical beams. <i>Physics in Medicine and Biology</i> , 2017, 62, 377-393.	1.6	61
8	Proton and carbon ion radiotherapy in skull base chordomas: a prospective study based on a dual particle and a patient-customized treatment strategy. <i>Neuro-Oncology</i> , 2020, 22, 1348-1358.	0.6	44
9	Commissioning of the 4-D treatment delivery system for organ motion management in synchrotron-based scanning ion beams. <i>Physica Medica</i> , 2016, 32, 1667-1671.	0.4	34
10	Dosimetric characterization of carbon fiber stabilization devices for post-operative particle therapy. <i>Physica Medica</i> , 2017, 44, 18-25.	0.4	31
11	Reirradiation of salivary gland tumors with carbon ion radiotherapy at CNAO. <i>Radiotherapy and Oncology</i> , 2020, 145, 172-177.	0.3	31
12	Design and commissioning of the non-dedicated scanning proton beamline for ocular treatment at the synchrotron-based CNAO facility. <i>Medical Physics</i> , 2019, 46, 1852-1862.	1.6	30
13	Dosimetric characterization of a microDiamond detector in clinical scanned carbon ion beams. <i>Medical Physics</i> , 2015, 42, 2085-2093.	1.6	29
14	Dosimetric accuracy of a treatment planning system for actively scanned proton beams and small target volumes: Monte Carlo and experimental validation. <i>Physics in Medicine and Biology</i> , 2015, 60, 6865-6880.	1.6	20
15	Development and characterization of a 2D scintillation detector for quality assurance in scanned carbon ion beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 815, 23-30.	0.7	20
16	Proton beam radiotherapy: report of the first ten patients treated at the Centro Nazionale di Adroterapia Oncologica (CNAO) for skull base and spine tumours. <i>Radiologia Medica</i> , 2014, 119, 277-282.	4.7	19
17	Measurements of 2D distributions of absorbed dose in protontherapy with Gafchromic EBT3 films. <i>Applied Radiation and Isotopes</i> , 2015, 104, 192-196.	0.7	19
18	RBE-weighted dose in carbon ion therapy for ACC patients: Impact of the RBE model translation on treatment outcomes. <i>Radiotherapy and Oncology</i> , 2019, 141, 227-233.	0.3	17

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19	First-in-man case of non-invasive proton radiotherapy for the treatment of refractory ventricular tachycardia in advanced heart failure. <i>European Journal of Heart Failure</i> , 2021, 23, 195-196.	2.9	16
20	How LEM-based RBE and dose-averaged LET affected clinical outcomes of sacral chordoma patients treated with carbon ion radiotherapy. <i>Radiotherapy and Oncology</i> , 2021, 163, 209-214.	0.3	15
21	<i>In vivo</i> radiobiological assessment of the new clinical carbon ion beams at CNAO. <i>Radiation Protection Dosimetry</i> , 2015, 166, 379-382.	0.4	14
22	Re-irradiation With Carbon Ion Radiotherapy for Pelvic Rectal Cancer Recurrences in Patients Previously Irradiated to the Pelvis. <i>In Vivo</i> , 2020, 34, 1547-1553.	0.6	14
23	Development and application of tools for Monte Carlo based simulations in a particle beam radiotherapy facility. <i>Applied Radiation and Isotopes</i> , 2014, 83, 155-158.	0.7	13
24	Risk of carotid blowout after reirradiation with particle therapy. <i>Advances in Radiation Oncology</i> , 2017, 2, 465-474.	0.6	13
25	Rectum Dose Constraints for Carbon Ion Therapy: Relative Biological Effectiveness Model Dependence in Relation to Clinical Outcomes. <i>Cancers</i> , 2020, 12, 46.	1.7	13
26	Endometrial Cancer: When Upfront Surgery Is Not an Option. <i>Oncology</i> , 2021, 99, 65-71.	0.9	13
27	Particle Radiotherapy for Skull Base Chondrosarcoma: A Clinical Series from Italian National Center for Oncological Hadrontherapy. <i>Cancers</i> , 2021, 13, 4423.	1.7	13
28	Development of a procedure for quenching-effect correction in images of absorbed dose from protons or carbon ions acquired with Gafchromic EBT3 films. <i>Radiation Physics and Chemistry</i> , 2019, 155, 138-145.	1.4	10
29	Effectiveness of stereotactic body radiotherapy in the treatment of inoperable early-stage lung cancer. <i>Anticancer Research</i> , 2007, 27, 3615-9.	0.5	10
30	Monitoring Carbon Ion Beams Transverse Position Detecting Charged Secondary Fragments: Results From Patient Treatment Performed at CNAO. <i>Frontiers in Oncology</i> , 2021, 11, 601784.	1.3	9
31	Characterization of a multilayer ionization chamber prototype for fast verification of relative depth ionization curves and spread-out-Bragg-peaks in light ion beam therapy. <i>Medical Physics</i> , 2018, 45, 2266-2277.	1.6	8
32	3D energy deposition measurements with the GEMPix detector in a water phantom for hadron therapy. <i>Journal of Instrumentation</i> , 2018, 13, P08009-P08009.	0.5	8
33	Determination of ion recombination and polarity effect correction factors for a plane-parallel ionization Bragg peak chamber under proton and carbon ion pencil beams. <i>Physics in Medicine and Biology</i> , 2019, 64, 095010.	1.6	8
34	Impact of TPS calculation algorithms on dose delivered to the patient in proton therapy treatments. <i>Physics in Medicine and Biology</i> , 2019, 64, 075016.	1.6	8
35	Localization of anatomical changes in patients during proton therapy with in-beam PET monitoring: A voxel-based morphometry approach exploiting Monte Carlo simulations. <i>Medical Physics</i> , 2022, 49, 23-40.	1.6	8
36	Scan path optimization with/without clustering for active beam delivery in charged particle therapy. <i>Physica Medica</i> , 2015, 31, 130-136.	0.4	7

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37	Development and Implementation of Proton Therapy for Hodgkin Lymphoma: Challenges and Perspectives. <i>Cancers</i> , 2021, 13, 3744.	1.7	7
38	Characterization of a MLIC Detector for QA in Scanned Proton and Carbon Ion Beams. <i>International Journal of Particle Therapy</i> , 2019, 6, 50-59.	0.9	6
39	Correction method of measured images of absorbed dose for quenching effects due to relatively high LET. <i>Radiation Physics and Chemistry</i> , 2017, 140, 15-19.	1.4	5
40	Letter to the Editor concerning "Re-irradiation in gynaecological cancers, present experiences and future hopes". <i>Journal of Radiation Oncology</i> , 2019, 8, 355-356.	0.7	5
41	High-dose hypofractionated pencil beam scanning carbon ion radiotherapy for lung tumors: Dosimetric impact of different spot sizes and robustness to interfractional uncertainties. <i>Physica Medica</i> , 2021, 85, 79-86.	0.4	5
42	Cardiac conduction system exposure with modern radiotherapy techniques for mediastinal Hodgkin lymphoma irradiation. <i>Acta Oncologica</i> , 2022, 61, 496-499.	0.8	5
43	A Patient Selection Approach Based on NTCP Models and DVH Parameters for Definitive Proton Therapy in Locally Advanced Sinonasal Cancer Patients. <i>Cancers</i> , 2022, 14, 2678.	1.7	5
44	Is a tailored strategy using proton beam radiotherapy for reirradiation advantageous for elderly women? A case report. <i>Tumori</i> , 2021, 107, NP67-NP72.	0.6	4
45	OC-0057 COMMISSIONING AND QUALITY ASSURANCE OF SCANNED PROTON BEAMS PRODUCED BY A SYNCHROTRON FOR PARTICLE RADIOTHERAPY. <i>Radiotherapy and Oncology</i> , 2012, 103, S22-S23.	0.3	2
46	Dosimetric characterization of a silicon diode detector in cyclotron-based passively scattered and synchrotron-based scanning clinical proton beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 891, 125-132.	0.7	2
47	Is Proton Beam Radiotherapy Worthwhile in the Management of Angiosarcoma of the Scalp?. <i>Anticancer Research</i> , 2020, 40, 1645-1649.	0.5	2
48	Determination of ion recombination and polarity effects for the PTW Advanced Markus ionization chamber in synchrotron based scanned proton and carbon ion beams. <i>Physica Medica</i> , 2022, 96, 149-156.	0.4	2
49	Cardiotoxicity model-based patient selection for Hodgkin lymphoma proton therapy. <i>Acta Oncologica</i> , 2022, 61, 979-986.	0.8	2
50	EP-1350: Malignant mucosal melanoma in the upper aerodigestive tract treated with carbon ion RT at CNAO: preliminary results. <i>Radiotherapy and Oncology</i> , 2015, 115, S728.	0.3	1
51	Treatment of moving targets with active scanning carbon ion beams. <i>Radiotherapy and Oncology</i> , 2016, 118, S41-S42.	0.3	1
52	9. Commissioning of the first synchrotron-based scanning proton beamline for ocular melanoma treatments. <i>Physica Medica</i> , 2018, 56, 65-66.	0.4	0
53	Experimental studies of broadening in water of proton or carbon ion pencil beams for Hadron Therapy. , 2018, , .		0
54	EP-2155: Dosimetry of the first synchrotron-based scanning proton beamline for the treatment of ocular tumors. <i>Radiotherapy and Oncology</i> , 2018, 127, S1189-S1190.	0.3	0

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55	EP-1147 Local control rate in patients with skull-base chondrosarcoma treated with particle therapy. Radiotherapy and Oncology, 2019, 133, S636-S637.	0.3	0
56	EP-1756 Ion recombination and polarity correction for a plane-parallel ionization chamber in hadrontherapy. Radiotherapy and Oncology, 2019, 133, S948.	0.3	0
57	EP-1496 Feasibility of carbon ion radiotherapy for the melanoma of the lower genital tract. Radiotherapy and Oncology, 2019, 133, S810.	0.3	0
58	PO-0741 Active spot-scanning proton therapy for intracranial meningiomas: CNAO experience. Radiotherapy and Oncology, 2019, 133, S380-S381.	0.3	0
59	Dosimetric effect of variable rectum and sigmoid colon filling during carbon ion radiotherapy to sacral chordoma. Physica Medica, 2021, 90, 123-133.	0.4	0
60	PO-1798: Quality of radiotherapy treatment plans for locally advanced sinonasal tumors in a phase II trial. Radiotherapy and Oncology, 2020, 152, S1003-S1004.	0.3	0
61	PD-0897 In vivo verification by detection of charged fragments in carbon ion therapy treatments at CNAO. Radiotherapy and Oncology, 2022, 170, S790-S791.	0.3	0
62	PD-0175 Cardiac conduction system exposure during modern radiation therapy for mediastinal Hodgkin lymphoma. Radiotherapy and Oncology, 2022, 170, S152-S153.	0.3	0
63	PD-0172 Multi-parameter patient selection strategy for Hodgkin lymphoma proton therapy. Radiotherapy and Oncology, 2022, 170, S148-S149.	0.3	0
64	OC-0452 The role of RBE and LET in treatment efficacy of carbon ion radiotherapy for sacral chordoma. Radiotherapy and Oncology, 2022, 170, S396-S397.	0.3	0
65	PO-1509 Proton therapy for nasopharyngeal cancer: dosimetric and NTCP analysis supporting clinical decision. Radiotherapy and Oncology, 2022, 170, S1289-S1290.	0.3	0