Loredana G Marcu

List of Publications by Year
in descending order

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121	1,417	361045	433756
papers	citations	20 h-index	31 g-index

128	128	128	2050
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tirapazamine: From Bench to Clinical Trials. Current Clinical Pharmacology, 2006, 1, 71-79.	0.2	100
2	Global comparison of targeted alpha vs targeted beta therapy for cancer: In vitro, in vivo and clinical trials. Critical Reviews in Oncology/Hematology, 2018, 123, 7-20.	2.0	89
3	Cisplatin and Radiotherapy in the Treatment of Locally Advanced Head and Neck Cancer. Acta OncolÃ³gica, 2003, 42, 315-325.	0.8	61
4	A review of risk factors and genetic alterations in head and neck carcinogenesis and implications for current and future approaches to treatment. Journal of Cancer Research and Clinical Oncology, 2009, 135, 1303-1314.	1.2	57
5	Out-of-Field Neutron and Leakage Photon Exposures and the Associated Risk of Second Cancers in High-Energy Photon Radiotherapy: Current Status. Radiation Research, 2011, 176, 508-520.	0.7	41
6	Current understanding of cancer stem cells: Review of their radiobiology and role in head and neck cancers. Head and Neck, 2017, 39, 1920-1932.	0.9	40
7	Modelling of post-irradiation accelerated repopulation in squamous cell carcinomas. Physics in Medicine and Biology, 2004, 49, 3767-3779.	1.6	37
8	Altered fractionation in radiotherapy: From radiobiological rationale to therapeutic gain. Cancer Treatment Reviews, 2010, 36, 606-614.	3.4	34
9	Gender-dependent radiotherapy: The next step in personalised medicine?. Critical Reviews in Oncology/Hematology, 2020, 147, 102881.	2.0	34
10	Risk of second primary cancer after breast cancer treatment. European Journal of Cancer Care, 2014, 23, 51-64.	0.7	30
11	Imaging of Tumor Characteristics and Molecular Pathways With PET: Developments Over the Last Decade Toward Personalized Cancer Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1165-1182.	0.4	30
12	Assessment of normal tissue complications following prostate cancer irradiation: Comparison of radiation treatment modalities using NTCP models. Medical Physics, 2010, 37, 5126-5137.	1.6	29
13	Scheduling cisplatin and radiotherapy in the treatment of squamous cell carcinomas of the head and neck: a modelling approach. Physics in Medicine and Biology, 2006, 51, 3625-3637.	1.6	28
14	Risk estimation of second primary cancers after breast radiotherapy. Acta OncolÃ³gica, 2016, 55, 1331-1337.	0.8	27
15	Solutions to Gender Balance in STEM Fields Through Support, Training, Education and Mentoring: Report of the International Women in Medical Physics and Biomedical Engineering Task Group. Science and Engineering Ethics, 2020, 26, 275-292.	1.7	25
16	Translational Research in FLASH Radiotherapyâ€"From Radiobiological Mechanisms to In Vivo Results. Biomedicines, 2021, 9, 181.	1.4	25
17	Diversity of cancer stem cells in head and neck carcinomas: The role of HPV in cancer stem cell heterogeneity, plasticity and treatment response. Radiotherapy and Oncology, 2019, 135, 1-12.	0.3	24
18	The impact of COVIDâ€19 pandemic on genderâ€related work from home in STEM fieldsâ€"Report of the WiMPBME Task Group. Gender, Work and Organization, 2021, 28, 378-396.	3.1	23

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19	Tumour resistance to cisplatin: a modelling approach. Physics in Medicine and Biology, 2005, 50, 93-102.	1.6	22
20	Current challenges in clinical target volume definition: Tumour margins and microscopic extensions. Acta OncolÃ³gica, 2012, 51, 984-995.	0.8	22
21	Photons â€“ Radiobiological issues related to the risk of second malignancies. Physica Medica, 2017, 42, 213-220.	0.4	22
22	In SilicoModelling of Treatment-Induced Tumour Cell Kill: Developments and Advances. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-16.	0.7	20
23	PET-based quantification of statistical properties of hypoxic tumor subvolumes in head and neck cancer. Physica Medica, 2016, 32, 23-35.	0.4	20
24	Efficient Monte Carlo modelling of individual tumour cell propagation for hypoxic head and neck cancer. Physics in Medicine and Biology, 2008, 53, 4489-4507.	1.6	18
25	Future treatment directions for HPV-associated head and neck cancer based on radiobiological rationale and current clinical evidence. Critical Reviews in Oncology/Hematology, 2016, 103, 27-36.	2.0	18
26	In vitro investigation of head and neck cancer stem cell proportions and their changes following X-ray irradiation as a function of HPV status. PLoS ONE, 2017, 12, e0186186.	1.1	18
27	The Promise of Novel Biomarkers for Head and Neck Cancer from an Imaging Perspective. International Journal of Molecular Sciences, 2018, 19, 2511.	1.8	18
28	The risk of second primary cancers due to peripheral photon and neutron doses received during prostate cancer external beam radiation therapy. Physica Medica, 2017, 42, 253-258.	0.4	17
29	Current status of proton therapy outcome for paediatric cancers of the central nervous system â€“ Analysis of the published literature. Cancer Treatment Reviews, 2018, 70, 272-288.	3.4	17
30	The Potential Role of Radiomics and Radiogenomics in Patient Stratification by Tumor Hypoxia Status. Journal of the American College of Radiology, 2019, 16, 1329-1337.	0.9	16
31	How much is too much? Systematic review of cumulative doses from radiological imaging and the risk of cancer in children and young adults. Critical Reviews in Oncology/Hematology, 2021, 160, 103292.	2.0	16
32	Approaches to combat hypoxia in cancer therapy and the potential for in silico models in their evaluation. Physica Medica, 2019, 64, 145-156.	0.4	15
33	Radiobiological and Treatment-Related Aspects of Spatially Fractionated Radiotherapy. International Journal of Molecular Sciences, 2022, 23, 3366.	1.8	15
34	The role of amifostine in the treatment of head and neck cancer with cisplatin-radiotherapy. European Journal of Cancer Care, 2009, 18, 116-123.	0.7	14
35	Modelling of tumour repopulation after chemotherapy. Australasian Physical and Engineering Sciences in Medicine, 2010, 33, 265-270.	1.4	14
36	In silico modelling of a cancer stem cell-targeting agent and its effects on tumour control during radiotherapy. Scientific Reports, 2016, 6, 32332.	1.6	13

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37	Are further studies needed to justify the use of proton therapy for paediatric cancers of the central nervous system? A review of current evidence. Radiotherapy and Oncology, 2019, 133, 140-148.	0.3	13
38	Radiobiological modeling of interplay between accelerated repopulation and altered fractionation schedules in head and neck cancer. Journal of Medical Physics, 2009, 34, 206.	0.1	13
39	PET-Specific Parameters and Radiotracers in Theoretical Tumour Modelling. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-11.	0.7	12
40	In silico study of the impact of cancer stem cell dynamics and radiobiological hypoxia on tumour response to hyperfractionated radiotherapy. Cell Proliferation, 2016, 49, 304-314.	2.4	12
41	Treatment-Related Adverse Effects in Lung Cancer Patients after Stereotactic Ablative Radiation Therapy. Journal of Oncology, 2018, 2018, 1-16.	0.6	12
42	Radioimmunotherapy of glioblastoma multiforme - Current status and future prospects. Critical Reviews in Oncology/Hematology, 2021, 163, 103395.	2.0	12
43	Review of Health Economics of Point-of-Care Testing Worldwide and Its Efficacy of Implementation in the Primary Health Care Setting in Remote Australia . Risk Management and Healthcare Policy, 2020, Volume 13, 379-386.	1.2	12
44	Gender and Sex-Related Differences in Normal Tissue Effects Induced by Platinum Compounds. Pharmaceuticals, 2022, 15, 255.	1.7	12
45	The use of enriched 6Li and 7Li Lif:Mg,Cu,P glass-rod thermoluminescent dosemeters for linearaccelerator out-of-field radiation dose measurements. Radiation Protection Dosimetry, 2012, 150, 22-33.	0.4	11
46	Hypoxia in Head and Neck Cancer in Theory and Practice: A PET-Based Imaging Approach. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-13.	0.7	11
47	The Biggest Challenges Resulting from the COVID-19 Pandemic on Gender-Related Work from Home in Biomedical Fieldsâ€”World-Wide Qualitative Survey Analysis. International Journal of Environmental Research and Public Health, 2022, 19, 3109.	1.2	11
48	Peripheral photon and neutron doses from prostate cancer external beam irradiation. Radiation Protection Dosimetry, 2015, 167, 591-601.	0.4	10
49	Dosimetric justification for the use of volumetric modulated arc therapy in head and neck cancerâ€”A systematic review of the literature. Laryngoscope Investigative Otolaryngology, 2021, 6, 999-1007.	0.6	10
50	In SilicoModelling of Tumour Margin Diffusion and Infiltration: Review of Current Status. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-16.	0.7	9
51	Current issues regarding artificial intelligence in cancer and health care. Implications for medical physicists and biomedical engineers. Health and Technology, 2019, 9, 375-381.	2.1	9
52	Influence of the human papillomavirus on the radio-responsiveness of cancer stem cells in head and neck cancers. Scientific Reports, 2020, 10, 2716.	1.6	9
53	Biomedical Physics in Radiotherapy for Cancer. , 2012, , .		9
54	Improving Therapeutic Ratio in Head and Neck Cancer with Adjuvant and Cisplatin-Based Treatments. BioMed Research International, 2013, 2013, 1-9.	0.9	8

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55	Tumour repopulation and the role of abortive division in squamous cell carcinomas during chemotherapy. Cell Proliferation, 2014, 47, 318-325.	2.4	8
56	Intrinsic Radiosensitivity Is Not the Determining Factor in Treatment Response Differences between HPV Negative and HPV Positive Head and Neck Cancers. Cells, 2020, 9, 1788.	1.8	8
57	Current Omics Trends in Personalised Head and Neck Cancer Chemoradiotherapy. Journal of Personalized Medicine, 2021, 11, 1094.	1.1	8
58	Quo Vadis Radiotherapy? Technological Advances and the Rising Problems in Cancer Management. BioMed Research International, 2013, 2013, 1-9.	0.9	7
59	Oesophageal cancer: Which treatment is the easiest to swallow? A review of combined modality treatments for resectable carcinomas. Critical Reviews in Oncology/Hematology, 2017, 113, 135-150.	2.0	7
60	Imaging Biomarkers of Tumour Proliferation and Invasion for Personalised Lung Cancer Therapy. Journal of Personalized Medicine, 2020, 10, 222.	1.1	7
61	The role of PET imaging in overcoming radiobiological challenges in the treatment of advanced head and neck cancer. Cancer Treatment Reviews, 2012, 38, 185-193.	3.4	6
62	Neoadjuvant cisplatin for head and neck cancer: Simulation of a novel schedule for improved therapeutic ratio. Journal of Theoretical Biology, 2012, 297, 41-47.	0.8	6
63	Influence of stemâ€cell cycle time on accelerated reâ€population during radiotherapy in head and neck cancer. Cell Proliferation, 2012, 45, 404-412.	2.4	6
64	Treatment technique evolution and dosimetry trends over seven years of low dose rate prostate brachytherapy at an Australian institution. Physica Medica, 2013, 29, 662-669.	0.4	6
65	Comparison of 3 different postimplant dosimetry methods following permanent 125I prostate seed brachytherapy. Medical Dosimetry, 2013, 38, 309-314.	0.4	6
66	The first Rs of radiotherapy: or standing on the shoulders of giants. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 531-541.	1.4	6
67	Experimental investigation of radiobiology in head and neck cancer cell lines as a function of HPV status, by MTT assay. Scientific Reports, 2018, 8, 7744.	1.6	6
68	Points of view on artificial intelligence in medical imagingâ€”one good, one bad, one fuzzy. Health and Technology, 2021, 11, 17-22.	2.1	6
69	Quality indicators and technique for analyzing permanent I-125 prostate seed implants: Seven years postimplant dosimetry evaluation. Medical Physics, 2012, 39, 4123-4131.	1.6	5
70	Feeding the Data Monster: Data Science in Head and Neck Cancer for Personalized Therapy. Journal of the American College of Radiology, 2019, 16, 1695-1701.	0.9	5
71	Progress and prospects of flattening filter free beam technology in radiosurgery and stereotactic body radiotherapy. Critical Reviews in Oncology/Hematology, 2021, 163, 103396.	2.0	5
72	The effect of targeted therapy on recruited cancer stem cells in a head and neck carcinoma model. Cell Proliferation, 2017, 50, e12380.	2.4	5

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73	The role of hypofractionated radiotherapy in the management of head and neck cancer â€“ a modelling approach. Journal of Theoretical Biology, 2019, 482, 109998.	0.8	4
74	Overview of current applications of the Timepix detector in spectroscopy, radiation and medical physics. Applied Spectroscopy Reviews, 2020, 55, 243-261.	3.4	4
75	Cancer stem cells as therapeutic targets of pancreatic cancer. Fundamental and Clinical Pharmacology, 2020, 34, 200-201.	1.0	4
76	EFOMP survey results on national radiotherapy dosimetry audits. Physica Medica, 2021, 84, 10-14.	0.4	4
77	The ever-changing role of medical physicists in the era of personalized medicine. Journal of Medical Physics, 2020, 45, 197.	0.1	4
78	Early career medical physicist groups in Europe: An EFOMP survey. Physica Medica, 2022, 95, 89-93.	0.4	4
79	Radiation Research Journals Need to Stipulate Minimal Dosimetry Requirements for Publishing Research Using X-Radiation Exposures. Radiation Research, 2022, 198, .	0.7	4
80	Assessment of I-125 seed implant accuracy when using the live-planning technique for low dose rate prostate brachytherapy. Radiation Oncology, 2012, 7, 196.	1.2	3
81	Adaptive Radiotherapy in Head and Neck Cancer Using Volumetric Modulated Arc Therapy. Journal of Personalized Medicine, 2022, 12, 668.	1.1	3
82	Stochastic modelling of the role of cisplatin in altered fractionation schedules for head and neck cancer. Physica Medica, 2010, 26, 177-183.	0.4	2
83	Evaluation of physician eye lens doses during permanent seed implant brachytherapy for prostate cancer. Journal of Radiological Protection, 2012, 32, 339-347.	0.6	2
84	Technical and dosimetric aspects of iodine-125 seed reimplantation in suboptimal prostate implants. British Journal of Radiology, 2013, 86, 20130058.	1.0	2
85	Experimental investigation of the cell survival in dose cold spot. Acta OncolÃ³gica, 2014, 53, 16-24.	0.8	2
86	Predictive Models of Tumour Response to Treatment Using Functional Imaging Techniques. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-2.	0.7	2
87	The Six Rs of Head and Neck Cancer Radiotherapy. , 0, , .		2
88	Cocktail without hangover: in search for the optimal chemotherapy in the combined management of non-operable esophageal carcinomas. Acta OncolÃ³gica, 2017, 56, 899-908.	0.8	2
89	Radioactivity monitoring in foodstuff and drinking water in Bihor County, Romania. AIP Conference Proceedings, 2020, , .	0.3	2
90	The role of medical physicists in clinical trials across Europe. Physica Medica, 2022, 100, 31-38.	0.4	2

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91	140Âyears of medical physics in Romania. Physica Medica, 2021, 82, 46-53.	0.4	1
92	Characteristic differences in radiationâ€induced DNA damage response in human papillomavirusâ€negative and human papillomavirusâ€positive head and neck cancers with accumulation of fractional radiation dose. Head and Neck, 2021, 43, 3086-3096.	0.9	1
93	Brachytherapy: radiobiology and physics aspects of treatment. , 2012, , 225-251.		1
94	In Silico Evaluation of Radiobiological Hypoxia And Its Effect on Tumour Control During Radiotherapy. , 2015, , .		1
95	Women in Medical Physics and Biomedical Engineering: past, present and future. Health and Technology, 2022, 12, 655-662.	2.1	1
96	Is there a dosimetric advantage of volumetric modulated arc therapy over intensity modulated radiotherapy in head and neck cancer?. European Archives of Oto-Rhino-Laryngology, 2022, 279, 5311-5321.	0.8	1
97	Computational and Mathematical Modeling of Tumor Kinetics and Response to Radiation and Chemotherapy. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-2.	0.7	0
98	Radiobiological effects of cancer stem cell-targeting therapy in a head and neck cancer model. Physica Medica, 2016, 32, 267.	0.4	0
99	EP-1714: Hyper- versus hypofractionated radiotherapy in a radioresistant head and neck cancer model. Radiotherapy and Oncology, 2016, 119, S801.	0.3	0
100	PO-050: The interplay between all-trans-retinoic acid and radiotherapy in inducing cancer stem cell arrest. Radiotherapy and Oncology, 2017, 122, 26.	0.3	0
101	In silico modelling of radiation effects towards personalised treatment in radiotherapy. AIP Conference Proceedings, 2017, , .	0.3	0
102	[I123] Radiobiological parameters that influence treatment outcome in radiotherapy. Physica Medica, 2018, 52, 47.	0.4	0
103	Do SABR-related toxicities for lung cancer depend on treatment delivery?. Critical Reviews in Oncology/Hematology, 2018, 129, 67-78.	2.0	0
104	COVID-19 vaccination rates of medical physicists throughout Europe. Physica Medica, 2021, 82, 341-342.	0.4	0
105	Image guided radiotherapy: radiobiology and physics aspects of treatment. , 2012, , 155-181.		0
106	Palliative radiotherapy. , 2012, , 369-382.		0
107	Fractionation and altered fractionation in radiotherapy. , 2012, , 107-128.		0
108	Fast neutron therapy. , 2012, , 327-343.		0

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109	Stereotactic radiosurgery: radiobiology and physics aspects of treatment. , 2012, , 253-267.		0
110	Tumour characteristics, development and response to radiation. , 2012, , 89-105.		0
111	Elements of radiotherapy physics. , 2012, , 53-87.		0
112	Predictive assays. , 2012, , 383-398.		0
113	Interactions of radiation with matter. , 2012, , 1-34.		0
114	Electron therapy: radiobiology and physics aspects of treatment. , 2012, , 285-307.		0
115	Elements of health physics. , 2012, , 399-423.		0
116	External beam hadron radiotherapy. , 2012, , 309-326.		0
117	Intensity modulated radiotherapy: radiobiology and physics aspects of treatment. , 2012, , 183-224.		0
118	Three-dimensional conformal radiotherapy: technical and physics aspects of treatment. , 2012, , 129-154.		0
119	Total body irradiation: radiobiology and physics aspects of treatment. , 2012, , 269-284.		0
120	The Radiobiology and Radiotherapy of HPV-Associated Head and Neck Squamous Cell Carcinoma. , 2018, , 69-86.		0
121	The Mechanisms Behind Tumour Repopulation. , 2018, , 53-68.		0