

Iuliana Toma-Dasu

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,033
citations

249298

26
h-index

312153

41
g-index

87
all docs

87
docs citations

87
times ranked

2292
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards the virtual tumor for optimizing radiotherapy treatments of hypoxic tumors: A novel model of heterogeneous tissue vasculature and oxygenation. <i>Journal of Theoretical Biology</i> , 2022, 547, 111175.	0.8	10
2	Assessment of the Probability of Tumour Control for Prescribed Doses Based on Imaging of Oxygen Partial Pressure. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 185-190.	0.8	4
3	Evolution of the hypoxic compartment on sequential oxygen partial pressure maps during radiochemotherapy in advanced head and neck cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 17, 100-105.	1.2	6
4	Simultaneous Truth and Performance Level Estimation Method for Evaluation of Target Contouring in Radiosurgery. <i>Anticancer Research</i> , 2021, 41, 279-288.	0.5	2
5	Radiobiological Evaluation of Combined Gamma Knife Radiosurgery and Hyperthermia for Pediatric Neuro-Oncology. <i>Cancers</i> , 2021, 13, 3277.	1.7	5
6	A Comparative Study of Radiomics and Deep-Learning Based Methods for Pulmonary Nodule Malignancy Prediction in Low Dose CT Images. <i>Frontiers in Oncology</i> , 2021, 11, 737368.	1.3	13
7	Spatial correlation of linear energy transfer and relative biological effectiveness with suspected treatment-related toxicities following proton therapy for intracranial tumors. <i>Medical Physics</i> , 2020, 47, 342-351.	1.6	30
8	RBE for proton radiation therapy – a Nordic view in the international perspective. <i>Acta Oncologica</i> , 2020, 59, 1151-1156.	0.8	9
9	The role of computational methods for automating and improving clinical target volume definition. <i>Radiotherapy and Oncology</i> , 2020, 153, 15-25.	0.3	31
10	Cancer risk after breast proton therapy considering physiological and radiobiological uncertainties. <i>Physica Medica</i> , 2020, 76, 1-6.	0.4	10
11	Recent Developments in the Prediction of Clinical Outcomes Data in Radiation Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 513-517.	0.4	0
12	Hypoxia Induced by Vascular Damage at High Doses Could Compromise the Outcome of Radiotherapy. <i>Anticancer Research</i> , 2019, 39, 2337-2340.	0.5	12
13	Radiation-induced Vascular Damage and the Impact on the Treatment Outcome of Stereotactic Body Radiotherapy. <i>Anticancer Research</i> , 2019, 39, 2721-2727.	0.5	14
14	Impact of Tumour Cell Infiltration on Treatment Outcome in Gamma Knife Radiosurgery: A Modelling Study. <i>Anticancer Research</i> , 2019, 39, 1675-1687.	0.5	3
15	Impact of SBRT fractionation in hypoxia dose painting – Accounting for heterogeneous and dynamic tumor oxygenation. <i>Medical Physics</i> , 2019, 46, 2512-2521.	1.6	17
16	Early survival prediction in non-small cell lung cancer from PET/CT images using an intra-tumor partitioning method. <i>Physica Medica</i> , 2019, 60, 58-65.	0.4	40
17	Practice patterns of image guided particle therapy in Europe: A 2016 survey of the European Particle Therapy Network (EPTN). <i>Radiotherapy and Oncology</i> , 2018, 128, 4-8.	0.3	21
18	Evaluation of third treatment week as temporal window for assessing responsiveness on repeated FDG-PET-CT scans in Non-Small Cell Lung Cancer patients. <i>Physica Medica</i> , 2018, 46, 45-51.	0.4	8

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19	Non-linear conversion of HX4 uptake for automatic segmentation of hypoxic volumes and dose prescription. <i>Acta Oncologica</i> , 2018, 57, 485-490.	0.8	8
20	Early tumor response prediction for lung cancer patients using novel longitudinal pattern features from sequential PET/CT image scans. <i>Physica Medica</i> , 2018, 54, 21-29.	0.4	38
21	Multi-institutional study of the variability in target delineation for six targets commonly treated with radiosurgery. <i>Acta Oncologica</i> , 2018, 57, 1515-1520.	0.8	14
22	Accounting for Two Forms of Hypoxia for Predicting Tumour Control Probability in Radiotherapy: An In Silico Study. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 183-187.	0.8	8
23	Mathematical Description of Changes in Tumour Oxygenation from Repeated Functional Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 195-200.	0.8	0
24	Inclusion of a variable $\langle \text{RBE} \rangle$ into proton and photon plan comparison for various fractionation schedules in prostate radiation therapy. <i>Medical Physics</i> , 2017, 44, 810-822.	1.6	49
25	High brachytherapy doses can counteract hypoxia in cervical cancer—a modelling study. <i>Physics in Medicine and Biology</i> , 2017, 62, 560-572.	1.6	10
26	Defining the hypoxic target volume based on positron emission tomography for image guided radiotherapy—the influence of the choice of the reference region and conversion function. <i>Acta Oncologica</i> , 2017, 56, 819-825.	0.8	13
27	Models for the risk of secondary cancers from radiation therapy. <i>Physica Medica</i> , 2017, 42, 232-238.	0.4	32
28	Incorporation of relative biological effectiveness uncertainties into proton plan robustness evaluation. <i>Acta Oncologica</i> , 2017, 56, 769-778.	0.8	35
29	Impact of physiological breathing motion for breast cancer radiotherapy with proton beam scanning—the An in silico study. <i>Physica Medica</i> , 2017, 39, 88-94.	0.4	12
30	The influence of breathing motion and a variable relative biological effectiveness in proton therapy of left-sided breast cancer. <i>Acta Oncologica</i> , 2017, 56, 1428-1436.	0.8	17
31	Risk of second cancer following radiotherapy. <i>Physica Medica</i> , 2017, 42, 211-212.	0.4	10
32	Assessment of organs-at-risk contouring practices in radiosurgery institutions around the world—the first initiative of the OAR Standardization Working Group. <i>Radiotherapy and Oncology</i> , 2016, 121, 180-186.	0.3	17
33	Fractionated SRT using VMAT and Gamma Knife for brain metastases and gliomas—the a planning study. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 3-16.	0.8	15
34	Towards Multidimensional Radiotherapy: Key Challenges for Treatment Individualisation. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-8.	0.7	15
35	Predictive Models of Tumour Response to Treatment Using Functional Imaging Techniques. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-2.	0.7	2
36	Relative clinical effectiveness of carbon ion radiotherapy: theoretical modelling for H&N tumours. <i>Journal of Radiation Research</i> , 2015, 56, 639-645.	0.8	7

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37	Evaluating Tumor Response of Non-Small Cell Lung Cancer Patients With 18F-Fludeoxyglucose Positron Emission Tomography: Potential for Treatment Individualization. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 376-384.	0.4	27
38	Linear Energy Transfer Painting With Proton Therapy: A Means of Reducing Radiation Doses With Equivalent Clinical Effectiveness. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 1057-1064.	0.4	58
39	Will intrafraction repair have negative consequences on extreme hypofractionation in prostate radiation therapy?. <i>British Journal of Radiology</i> , 2015, 88, 20150588.	1.0	11
40	Optimal fractionation in radiotherapy for non-small cell lung cancer – a modelling approach. <i>Acta Oncologica</i> , 2015, 54, 1592-1598.	0.8	22
41	Radiobiological treatment planning evaluation of inverse planning simulated annealing for cervical cancer high-dose-rate brachytherapy. <i>Anticancer Research</i> , 2015, 35, 935-9.	0.5	0
42	Dosimetric and Radiobiological Evaluation of Hybrid Inverse Planning and Optimization for Cervical Cancer Brachytherapy. <i>Anticancer Research</i> , 2015, 35, 6091-6.	0.5	3
43	Dosimetric evaluation of manually and inversely optimized treatment planning for high dose rate brachytherapy of cervical cancer. <i>Acta Oncologica</i> , 2014, 53, 1012-1018.	0.8	13
44	Cancer incidence and radiation therapy in Mozambique – a comparative study to Sweden. <i>Acta Oncologica</i> , 2014, 53, 712-715.	0.8	1
45	Variability in target delineation for cavernous sinus meningioma and anaplastic astrocytoma in stereotactic radiosurgery with Leksell Gamma Knife Perfexion. <i>Acta Neurochirurgica</i> , 2014, 156, 2303-2313.	0.9	11
46	To fractionate or not to fractionate? That is the question for the radiosurgery of hypoxic tumors. <i>Journal of Neurosurgery</i> , 2014, 121, 110-115.	0.9	25
47	Clinical oxygen enhancement ratio of tumors in carbon ion radiotherapy: the influence of local oxygenation changes. <i>Journal of Radiation Research</i> , 2014, 55, 902-911.	0.8	50
48	Impact of Dose and Sensitivity Heterogeneity on TCP. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-7.	0.7	7
49	Radiation burden from secondary doses to patients undergoing radiation therapy with photons and light ions and radiation doses from imaging modalities. <i>Radiation Protection Dosimetry</i> , 2014, 161, 357-362.	0.4	17
50	Disregarding RBE variation in treatment plan comparison may lead to bias in favor of proton plans. <i>Medical Physics</i> , 2014, 41, 091706.	1.6	94
51	Treatment fractionation for stereotactic radiotherapy of lung tumours: a modelling study of the influence of chronic and acute hypoxia on tumour control probability. <i>Radiation Oncology</i> , 2014, 9, 149.	1.2	29
52	Survival and tumour control probability in tumours with heterogeneous oxygenation: A comparison between the linear-quadratic and the universal survival curve models for high doses. <i>Acta Oncologica</i> , 2014, 53, 1035-1040.	0.8	21
53	Quantitative Hypoxia Imaging for Treatment Planning of Radiotherapy. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 143-148.	0.8	2
54	Predicting the sensitivity to ion therapy based on the response to photon irradiation – experimental evidence and mathematical modelling. <i>Anticancer Research</i> , 2014, 34, 2801-6.	0.5	0

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55	Impact of variable RBE on proton fractionation. <i>Medical Physics</i> , 2013, 40, 011705.	1.6	48
56	Radiobiological description of the LET dependence of the cell survival of oxic and anoxic cells irradiated by carbon ions. <i>Journal of Radiation Research</i> , 2013, 54, 18-26.	0.8	51
57	Predictive value of modelled tumour control probability based on individual measurements of <i>in vitro</i> radiosensitivity and potential doubling time. <i>British Journal of Radiology</i> , 2013, 86, 20130015.	1.0	6
58	Dose painting by numbers - do the practical limitations of the technique decrease or increase the probability of controlling tumours?. <i>IFMBE Proceedings</i> , 2013, , 1731-1734.	0.2	3
59	Radiobiological Framework for the Evaluation of Stereotactic Radiosurgery Plans for Invasive Brain Tumours. <i>ISRN Oncology</i> , 2013, 2013, 1-5.	2.1	1
60	Dosimetric comparison between intra-cavitary breast brachytherapy techniques for accelerated partial breast irradiation and a novel stereotactic radiotherapy device for breast cancer: GammaPod [®] . <i>Physics in Medicine and Biology</i> , 2013, 58, 4409-4421.	1.6	14
61	Reply to the comment on "The influence of dose heterogeneity on tumour control probability in fractionated radiation therapy". <i>Physics in Medicine and Biology</i> , 2013, 58, 6591-6592.	1.6	1
62	Modelling Tumour Oxygenation, Reoxygenation and Implications on Treatment Outcome. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-9.	0.7	36
63	Is the $\hat{\mu}/\hat{\sigma}^2$ ratio for prostate tumours really low and does it vary with the level of risk at diagnosis?. <i>Anticancer Research</i> , 2013, 33, 1009-11.	0.5	49
64	Dose prescription and treatment planning based on FMISO-PET hypoxia. <i>Acta Oncologica</i> , 2012, 51, 222-230.	0.8	85
65	Prostate alpha/beta revisited " an analysis of clinical results from 14 168 patients. <i>Acta Oncologica</i> , 2012, 51, 963-974.	0.8	182
66	Clinical Investigations Biological effective dose evaluation and assessment of rectal and bladder complications for cervical cancer treated with radiotherapy and surgery. <i>Journal of Contemporary Brachytherapy</i> , 2012, 4, 205-212.	0.4	9
67	The influence of dose heterogeneity on tumour control probability in fractionated radiation therapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 7585-7600.	1.6	11
68	Secondary Malignancies From Prostate Cancer Radiation Treatment: A Risk Analysis of the Influence of Target Margins and Fractionation Patterns. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 738-746.	0.4	23
69	Dose prescription and optimisation based on tumour hypoxia. <i>Acta Oncologica</i> , 2009, 48, 1181-1192.	0.8	59
70	The Relationship Between Vascular Oxygen Distribution And Tissue Oxygenation. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 255-260.	0.8	8
71	Quantifying Tumour Hypoxia By Pet Imaging - A Theoretical Analysis. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 267-272.	0.8	25
72	What is the Clinically Relevant Relative Biologic Effectiveness? A Warning for Fractionated Treatments With High Linear Energy Transfer Radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 867-874.	0.4	13

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73	In Response to Dr. Karger et al.. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1614-1615.	0.4	2
74	Treatment modelling: The influence of micro-environmental conditions. Acta Oncologica, 2008, 47, 896-905.	0.8	6
75	Vascular oxygen content and the tissue oxygenation-A theoretical analysis. Medical Physics, 2008, 35, 539-545.	1.6	21
76	Theoretical Simulation of Tumour Oxygenation - Practical Applications. , 2006, 578, 357-362.		6
77	Theoretical Simulation of Tumour Hypoxia Measurements. , 2006, 578, 369-374.		1
78	The effects of hypoxia on the theoretical modelling of tumour control probability. Acta Oncologica, 2005, 44, 563-571.	0.8	38
79	Dose-effect models for risk relationship to cell survival parameters. Acta Oncologica, 2005, 44, 829-835.	0.8	39
80	The use of risk estimation models for the induction of secondary cancers following radiotherapy. Acta Oncologica, 2005, 44, 339-347.	0.8	108
81	Conversion of polarographic electrode measurements a computer based approach. Physics in Medicine and Biology, 2005, 50, 4581-4591.	1.6	2
82	The relationship between temporal variation of hypoxia, polarographic measurements and predictions of tumour response to radiation. Physics in Medicine and Biology, 2004, 49, 4463-4475.	1.6	29
83	Should single or distributed parameters be used to explain the steepness of tumour control probability curves?. Physics in Medicine and Biology, 2003, 48, 387-397.	1.6	62
84	Theoretical simulation of tumour oxygenation and results from acute and chronic hypoxia. Physics in Medicine and Biology, 2003, 48, 2829-2842.	1.6	117
85	Computer Simulation of Oxygen Microelectrode Measurements in Tissues. Advances in Experimental Medicine and Biology, 2003, 510, 157-161.	0.8	2
86	Theoretical simulation of oxygen tension measurement in the tissue using a microelectrode: II. Simulated measurements in tissues. Radiotherapy and Oncology, 2002, 64, 109-118.	0.3	19
87	Theoretical simulation of oxygen tension measurement in tissues using a microelectrode: I. The response function of the electrode. Physiological Measurement, 2001, 22, 713-725.	1.2	29