

Raphael Moeckli

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,594
citations

257101

24
h-index

197535

49
g-index

75
all docs

75
docs citations

75
times ranked

2400
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of a first patient with FLASH-radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 139, 18-22.	0.3	406
2	Long-term neurocognitive benefits of FLASH radiotherapy driven by reduced reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10943-10951.	3.3	326
3	Clinical translation of FLASH radiotherapy: Why and how?. <i>Radiotherapy and Oncology</i> , 2019, 139, 11-17.	0.3	294
4	Hypofractionated FLASH-RT as an Effective Treatment against Glioblastoma that Reduces Neurocognitive Side Effects in Mice. <i>Clinical Cancer Research</i> , 2021, 27, 775-784.	3.2	144
5	CYR61 and $\alpha 5 \beta 1$ Integrin Cooperate to Promote Invasion and Metastasis of Tumors Growing in Preirradiated Stroma. <i>Cancer Research</i> , 2008, 68, 7323-7331.	0.4	109
6	Dosimetric and preparation procedures for irradiating biological models with pulsed electron beam at ultra-high dose-rate. <i>Radiotherapy and Oncology</i> , 2019, 139, 34-39.	0.3	92
7	Rescue procedure for an electrical storm using robotic non-invasive cardiac radio-ablation. <i>Radiotherapy and Oncology</i> , 2018, 128, 189-191.	0.3	81
8	Treatment of penile carcinoma: To cut or not to cut?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 674-679.	0.4	65
9	Evaluation of organ-specific peripheral doses after 2-dimensional, 3-dimensional and hybrid intensity modulated radiation therapy for breast cancer based on Monte Carlo and convolution/superposition algorithms: Implications for secondary cancer risk assessment. <i>Radiotherapy and Oncology</i> , 2013, 106, 33-41.	0.3	60
10	Commissioning of the Leksell Gamma Knife [®] Icon [®] . <i>Medical Physics</i> , 2017, 44, 355-363.	1.6	57
11	New developments in external beam radiotherapy for retinoblastoma: from lens to normal tissue-sparing techniques. <i>Clinical and Experimental Ophthalmology</i> , 2008, 36, 78-89.	1.3	55
12	The Reasons for Discrepancies in Target Volume Delineation. <i>Strahlentherapie Und Onkologie</i> , 2006, 182, 450-457.	1.0	54
13	Decreased Local Control Following Radiation Therapy Alone in Early-Stage Glottic Carcinoma with Anterior Commissure Extension*. <i>Strahlentherapie Und Onkologie</i> , 2004, 180, 84-90.	1.0	52
14	Commissioning of an ultra-high dose rate pulsed electron beam medical LINAC for FLASH RT preclinical animal experiments and future clinical human protocols. <i>Medical Physics</i> , 2021, 48, 3134-3142.	1.6	51
15	¹⁰⁶ Ruthenium Brachytherapy for Retinoblastoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 821-828.	0.4	49
16	Apnea-like suppression of respiratory motion: First evaluation in radiotherapy. <i>Radiotherapy and Oncology</i> , 2016, 118, 220-226.	0.3	43
17	Skin cancer in survivors of childhood and adolescent cancer. <i>European Journal of Cancer</i> , 2006, 42, 656-659.	1.3	42
18	Dose- and Volume-Limiting Late Toxicity of FLASH Radiotherapy in Cats with Squamous Cell Carcinoma of the Nasal Planum and in Mini Pigs. <i>Clinical Cancer Research</i> , 2022, 28, 3814-3823.	3.2	42

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19	Comparison of ultra-high versus conventional dose rate radiotherapy in a patient with cutaneous lymphoma. <i>Radiotherapy and Oncology</i> , 2022, 174, 87-91.	0.3	39
20	Objective comparison of image quality and dose between conventional and synchrotron radiation mammography. <i>Physics in Medicine and Biology</i> , 2000, 45, 3509-3523.	1.6	34
21	Normal Tissue Sparing by FLASH as a Function of Single-Fraction Dose: A Quantitative Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 114, 1032-1044.	0.4	29
22	Implementation and validation of a beam current transformer on a medical pulsed electron beam LINAC for FLASH beam monitoring. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 165-171.	0.8	28
23	IMRT credentialing for prospective trials using institutional virtual phantoms: results of a joint European Organization for the Research and Treatment of Cancer and Radiological Physics Center project. <i>Radiation Oncology</i> , 2014, 9, 123.	1.2	26
24	Modern cataract surgery for radiation-induced cataracts in retinoblastoma. <i>British Journal of Ophthalmology</i> , 2011, 95, 227-230.	2.1	25
25	Difference in performance between 3D and 4D CBCT for lung imaging: a dose and image quality analysis. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 97-106.	0.8	25
26	Novel inverse planning optimization algorithm for robotic radiosurgery: First clinical implementation and dosimetric evaluation. <i>Physica Medica</i> , 2019, 64, 230-237.	0.4	23
27	Stereotactic Radiotherapy for the Management of Refractory Ventricular Tachycardia: Promise and Future Directions. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 108.	1.1	23
28	<title>Importance of anatomical noise in mammography</title>. , 1997, , .		20
29	Technical note: Validation of an ultrahigh dose rate pulsed electron beam monitoring system using a current transformer for FLASH preclinical studies. <i>Medical Physics</i> , 2022, 49, 1831-1838.	1.6	19
30	An absolute dose determination of helical tomotherapy accelerator, TomoTherapy High-Art II. <i>Medical Physics</i> , 2009, 36, 3891-3896.	1.6	18
31	Discrepancies between selected Pareto optimal plans and final deliverable plans in radiotherapy multi-criteria optimization. <i>Radiotherapy and Oncology</i> , 2016, 120, 346-348.	0.3	17
32	Dosimetric evaluation of modern radiation therapy techniques for left breast in deep-inspiration breath-hold. <i>Physica Medica</i> , 2018, 45, 82-87.	0.4	17
33	Optimization of Alanine Measurements for Fast and Accurate Dosimetry in FLASH Radiation Therapy. <i>Radiation Research</i> , 2020, 194, 573-579.	0.7	16
34	Retrospective feasibility study of simultaneous integrated boost in cervical cancer using tomotherapy: the impact of organ motion and tumor regression. <i>Radiation Oncology</i> , 2013, 8, 5.	1.2	15
35	Physical considerations on discrepancies in target volume delineation. <i>Zeitschrift Fur Medizinische Physik</i> , 2009, 19, 224-235.	0.6	14
36	Characteristics of very high-energy electron beams for the irradiation of deep-seated targets. <i>Medical Physics</i> , 2021, 48, 3958-3967.	1.6	14

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37	Preliminary Experience in Treatment of Papillary and Macular Retinoblastoma: Evaluation of Local Control and Local Complications After Treatment With Linear Accelerator-Based Stereotactic Radiotherapy With Micromultileaf Collimator as Second-Line or Salvage Treatment After Chemotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 1380-1386.	0.4	13
38	The 3rd ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy. <i>Radiotherapy and Oncology</i> , 2022, 170, 89-94.	0.3	11
39	¹⁰⁶ Ruthenium brachytherapy for ciliary recurrence with supraciliary effusion in retinoblastoma. <i>Ophthalmic Genetics</i> , 2010, 31, 190-192.	0.5	10
40	Helical Tomotherapy for the Treatment of Anal Canal Cancer: A Dosimetric Comparison with 3D Conformal Radiotherapy. <i>Tumori</i> , 2015, 101, 268-272.	0.6	8
41	A treatment planning comparison of contemporary photon-based radiation techniques for breast cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 7, 32-38.	1.2	8
42	Dosimetric characterisation and application to radiation biology of a kHz laser-driven electron beam. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	1.1	8
43	Towards an updated ESTRO-EFOMP core curriculum for education and training of medical physics experts in radiotherapy – A survey of current education and training practice in Europe. <i>Physica Medica</i> , 2021, 84, 65-71.	0.4	8
44	Determination of the ion collection efficiency of the Razor Nano Chamber for ultra-high dose-rate electron beams. <i>Medical Physics</i> , 2022, 49, 4731-4742.	1.6	8
45	Impact of respiratory-correlated CT sorting algorithms on the choice of margin definition for free-breathing lung radiotherapy treatments. <i>Radiotherapy and Oncology</i> , 2016, 119, 438-443.	0.3	7
46	Analysis of the treatment plan evaluation process in radiotherapy through eye tracking. <i>Zeitschrift Fur Medizinische Physik</i> , 2018, 28, 318-324.	0.6	7
47	In air and in vivo measurement of the leaf open time in tomotherapy using the on-board detector pulse data. <i>Medical Physics</i> , 2019, 46, 1963-1971.	1.6	6
48	In Regard to van Marlen et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 1012-1013.	0.4	6
49	Percussion assisted radiation therapy in Hodgkin lymphoma allows a marked reduction in heart dose. <i>Radiotherapy and Oncology</i> , 2020, 152, 163-168.	0.3	6
50	Stability of the Helical Tomotherapy HiArt II detector for treatment beam irradiations. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 119-127.	0.8	5
51	Determination of the effective dose delivered by image guided radiotherapy in head & neck and breast treatments. <i>Zeitschrift Fur Medizinische Physik</i> , 2018, 28, 276-285.	0.6	5
52	Curative management of a cardiac metastasis from lung cancer revealed by an electrical storm. <i>Clinical and Translational Radiation Oncology</i> , 2020, 21, 62-65.	0.9	5
53	Assessment of the image contrast improvement and dose reduction in mammography with synchrotron radiation compared to standard units. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 1349-1352.	0.7	4
54	Optimization of re-irradiation using deformable registration: a case study. <i>BJR case Reports</i> , 2016, 2, 20150412.	0.1	4

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55	Implementation of TomoEDGE in the independent dose calculator CheckTomo. Journal of Applied Clinical Medical Physics, 2017, 18, 92-99.	0.8	4
56	A clinical distance measure for evaluating treatment plan quality difference with Pareto fronts in radiotherapy. Physics and Imaging in Radiation Oncology, 2017, 3, 53-56.	1.2	4
57	Lausanne checklist for safe stereotactic radiosurgery. Acta Neurochirurgica, 2019, 161, 721-727.	0.9	4
58	Influence of scatter reduction method and monochromatic beams on image quality and dose in mammography. Medical Physics, 2003, 30, 3156-3164.	1.6	3
59	The concept and challenges of TomoTherapy accelerators. Reports on Progress in Physics, 2011, 74, 086701.	8.1	3
60	3D dose reconstruction for narrow beams using ion chamber array measurements. Zeitschrift Fur Medizinische Physik, 2012, 22, 123-132.	0.6	3
61	Role of Functional Imaging in Treatment Plan Optimization of Stereotactic Body Radiation Therapy for Liver Cancer. Tumori, 2016, 102, e21-e24.	0.6	3
62	On the interplay effect for moving targets treated with the CyberKnife static tracking system. Physica Medica, 2021, 90, 30-39.	0.4	3
63	Validation of Monte Carlo dose calculation algorithm for CyberKnife multileaf collimator. Journal of Applied Clinical Medical Physics, 2021, , .	0.8	3
64	Hepatobiliary scintigraphy allows the evaluation of short-term functional toxicity of liver stereotactic body radiotherapy: Results of a pilot study. PLoS ONE, 2018, 13, e0204013.	1.1	2
65	Retrospective analysis of the impact of respiratory motion in treatment margins for frameless lung SBRT based on respiratory-correlated CBCT datasets. Journal of Applied Clinical Medical Physics, 2020, 21, 170-178.	0.8	2
66	Dose indicator for CyberKnife image-guided radiation therapy. Medical Physics, 2020, 47, 2309-2316.	1.6	2
67	Break-even dose level for hypofractionated treatment schedules. Medical Physics, 2021, 48, 7534-7540.	1.6	2
68	A metastatic relapse associated with hippocampal dose sparing after whole-brain radiotherapy. Acta Oncologica, 2015, 54, 1824-1826.	0.8	1
69	Sparing healthy lung by focusing the radiation beam flow onto the emphysematous regions in the treatment of lung cancer. Journal of Medical Imaging and Radiation Oncology, 2017, 61, 252-257.	0.9	1
70	A delivery quality assurance tool based on the actual leaf open times in tomotherapy. Medical Physics, 2020, 47, 3845-3851.	1.6	1
71	Effect of scatter on image quality in synchrotron radiation mammography. , 2001, 4320, 590.		0
72	Response to Spartalis et al. Radiotherapy and Oncology, 2018, 128, 388.	0.3	0

#	ARTICLE	IF	CITATIONS
73	A new method to visualize and to spare the ureters during SBRT for oligo metastatic patients. Technical Innovations and Patient Support in Radiation Oncology, 2021, 19, 7-10.	0.6	0