RaphaÃ«l Moeckli

List of Publications by Year
in descending order

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	Comparison of ultra-high versus conventional dose rate radiotherapy in a patient with cutaneous lymphoma. Radiotherapy and Oncology, 2022, 174, 87-91.	0.3	39
2	Technical note: Validation of an ultrahigh dose rate pulsed electron beam monitoring system using a current transformer for FLASH preclinical studies. Medical Physics, 2022, 49, 1831-1838.	1.6	19
3	The 3rd ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy. Radiotherapy and Oncology, 2022, 170, 89-94.	0.3	11
4	Dose- and Volume-Limiting Late Toxicity of FLASH Radiotherapy in Cats with Squamous Cell Carcinoma of the Nasal Planum and in Mini Pigs. Clinical Cancer Research, 2022, 28, 3814-3823.	3.2	42
5	Determination of the ion collection efficiency of the Razor Nano Chamber for ultraâ€high doseâ€rate electron beams. Medical Physics, 2022, 49, 4731-4742.	1.6	8
6	Normal Tissue Sparing by FLASH as a Function of Single-Fraction Dose: A Quantitative Analysis. International Journal of Radiation Oncology Biology Physics, 2022, 114, 1032-1044.	0.4	29
7	Hypofractionated FLASH-RT as an Effective Treatment against Glioblastoma that Reduces Neurocognitive Side Effects in Mice. Clinical Cancer Research, 2021, 27, 775-784.	3.2	144
8	Dosimetric characterisation and application to radiation biology of a kHz laser-driven electron beam. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	8
9	Towards an updated ESTRO-EFOMP core curriculum for education and training of medical physics experts in radiotherapy â€“ A survey of current education and training practice in Europe. Physica Medica, 2021, 84, 65-71.	0.4	8
10	Commissioning of an ultraâ€high dose rate pulsed electron beam medical LINAC for FLASH RT preclinical animal experiments and future clinical human protocols. Medical Physics, 2021, 48, 3134-3142.	1.6	51
11	Characteristics of very highâ€energy electron beams for the irradiation of deepâ€seated targets. Medical Physics, 2021, 48, 3958-3967.	1.6	14
12	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
13	On the interplay effect for moving targets treated with the CyberKnife static tracking system. Physica Medica, 2021, 90, 30-39.	0.4	3
14	Implementation and validation of a beamâ€current transformer on a medical pulsed electron beam LINAC for FLASHâ€RT beam monitoring. Journal of Applied Clinical Medical Physics, 2021, 22, 165-171.	0.8	28
15	Breakâ€even dose level for hypofractionated treatment schedules. Medical Physics, 2021, 48, 7534-7540.	1.6	2
16	Validation of Monte Carlo dose calculation algorithm for CyberKnife multileaf collimator. Journal of Applied Clinical Medical Physics, 2021, , .	0.8	3
17	Curative management of a cardiac metastasis from lung cancer revealed by an electrical storm. Clinical and Translational Radiation Oncology, 2020, 21, 62-65.	0.9	5
18	Retrospective analysis of the impact of respiratory motion in treatment margins for frameless lung SBRT based on respiratoryâ€correlated CBCT dataâ€sets. Journal of Applied Clinical Medical Physics, 2020, 21, 170-178.	0.8	2

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19	In Regard to van Marlen etÂal. International Journal of Radiation Oncology Biology Physics, 2020, 107, 1012-1013.	0.4	6
20	A delivery quality assurance tool based on the actual leaf open times in tomotherapy. Medical Physics, 2020, 47, 3845-3851.	1.6	1
21	Stereotactic Radiotherapy for the Management of Refractory Ventricular Tachycardia: Promise and Future Directions. Frontiers in Cardiovascular Medicine, 2020, 7, 108.	1.1	23
22	Dose indicator for CyberKnife imageâ€guided radiation therapy. Medical Physics, 2020, 47, 2309-2316.	1.6	2
23	Percussion assisted radiation therapy in Hodgkin lymphoma allows a marked reduction in heart dose. Radiotherapy and Oncology, 2020, 152, 163-168.	0.3	6
24	Optimization of Alanine Measurements for Fast and Accurate Dosimetry in FLASH Radiation Therapy. Radiation Research, 2020, 194, 573-579.	0.7	16
25	Novel inverse planning optimization algorithm for robotic radiosurgery: First clinical implementation and dosimetric evaluation. Physica Medica, 2019, 64, 230-237.	0.4	23
26	Treatment of a first patient with FLASH-radiotherapy. Radiotherapy and Oncology, 2019, 139, 18-22.	0.3	406
27	Clinical translation of FLASH radiotherapy: Why and how?. Radiotherapy and Oncology, 2019, 139, 11-17.	0.3	294
28	Dosimetric and preparation procedures for irradiating biological models with pulsed electron beam at ultra-high dose-rate. Radiotherapy and Oncology, 2019, 139, 34-39.	0.3	92
29	Long-term neurocognitive benefits of FLASH radiotherapy driven by reduced reactive oxygen species. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10943-10951.	3.3	326
30	In air and inÂvivo measurement of the leaf open time in tomotherapy using the onâ€board detector pulseâ€byâ€pulse data. Medical Physics, 2019, 46, 1963-1971.	1.6	6
31	Lausanne checklist for safe stereotactic radiosurgery. Acta Neurochirurgica, 2019, 161, 721-727.	0.9	4
32	Determination of the effective dose delivered by image guided radiotherapy in head & neck and breast treatments. Zeitschrift Fur Medizinische Physik, 2018, 28, 276-285.	0.6	5
33	Analysis of the treatment plan evaluation process in radiotherapy through eye tracking. Zeitschrift Fur Medizinische Physik, 2018, 28, 318-324.	0.6	7
34	Dosimetric evaluation of modern radiation therapy techniques for left breast in deep-inspiration breath-hold. Physica Medica, 2018, 45, 82-87.	0.4	17
35	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
36	A treatment planning comparison of contemporary photon-based radiation techniques for breast cancer. Physics and Imaging in Radiation Oncology, 2018, 7, 32-38.	1.2	8

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37	Rescue procedure for an electrical storm using robotic non-invasive cardiac radio-ablation. Radiotherapy and Oncology, 2018, 128, 189-191.	0.3	81
38	Response to Spartalis et al. Radiotherapy and Oncology, 2018, 128, 388.	0.3	0
39	Implementation of Tomo<scp>EDGE</scp> in the independent dose calculator CheckTomo. Journal of Applied Clinical Medical Physics, 2017, 18, 92-99.	0.8	4
40	Commissioning of the Leksell Gamma Knife^{Â®} Iconâ„¢. Medical Physics, 2017, 44, 355-363.	1.6	57
41	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
42	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
43	Optimization of re-irradiation using deformable registration: a case study. BJR|case Reports, 2016, 2, 20150412.	0.1	4
44	Difference in performance between 3D and 4D CBCT for lung imaging: a dose and image quality analysis. Journal of Applied Clinical Medical Physics, 2016, 17, 97-106.	0.8	25
45	Impact of respiratory-correlated CT sorting algorithms on the choice of margin definition for free-breathing lung radiotherapy treatments. Radiotherapy and Oncology, 2016, 119, 438-443.	0.3	7
46	Role of Functional Imaging in Treatment Plan Optimization of Stereotactic Body Radiation Therapy for Liver Cancer. Tumori, 2016, 102, e21-e24.	0.6	3
47	Discrepancies between selected Pareto optimal plans and final deliverable plans in radiotherapy multi-criteria optimization. Radiotherapy and Oncology, 2016, 120, 346-348.	0.3	17
48	Apnea-like suppression of respiratory motion: First evaluation in radiotherapy. Radiotherapy and Oncology, 2016, 118, 220-226.	0.3	43
49	Helical Tomotherapy for the Treatment of Anal Canal Cancer: A Dosimetric Comparison with 3D Conformal Radiotherapy. Tumori, 2015, 101, 268-272.	0.6	8
50	A metastatic relapse associated with hippocampal dose sparing after whole-brain radiotherapy. Acta OncolÃ³gica, 2015, 54, 1824-1826.	0.8	1
51	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. Radiation Oncology, 2014, 9, 123.	1.2	26
52	Stability of the Helical TomoTherapy HiÂ·Art II detector for treatment beam irradiations. Journal of Applied Clinical Medical Physics, 2014, 15, 119-127.	0.8	5
53	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. Radiotherapy and Oncology, 2013, 106, 33-41.	0.3	60
54	Retrospective feasibility study of simultaneous integrated boost in cervical cancer using tomotherapy: the impact of organ motion and tumor regression. Radiation Oncology, 2013, 8, 5.	1.2	15

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55	3D dose reconstruction for narrow beams using ion chamber array measurements. Zeitschrift Fur Medizinische Physik, 2012, 22, 123-132.	0.6	3
56	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. International Journal of Radiation Oncology Biology Physics, 2011, 81, 1380-1386.	0.4	13
57	The concept and challenges of TomoTherapy accelerators. Reports on Progress in Physics, 2011, 74, 086701.	8.1	3
58	Modern cataract surgery for radiation-induced cataracts in retinoblastoma. British Journal of Ophthalmology, 2011, 95, 227-230.	2.1	25
59	106Ruthenium brachytherapy for ciliary recurrence with supraciliary effusion in retinoblastoma. Ophthalmic Genetics, 2010, 31, 190-192.	0.5	10
60	Physical considerations on discrepancies in target volume delineation. Zeitschrift Fur Medizinische Physik, 2009, 19, 224-235.	0.6	14
61	An absolute dose determination of helical tomotherapy accelerator, TomoTherapy High-Art II. Medical Physics, 2009, 36, 3891-3896.	1.6	18
62	106Ruthenium Brachytherapy for Retinoblastoma. International Journal of Radiation Oncology Biology Physics, 2008, 71, 821-828.	0.4	49
63	New developments in external beam radiotherapy for retinoblastoma: from lens to normal tissueâ€sparing techniques. Clinical and Experimental Ophthalmology, 2008, 36, 78-89.	1.3	55
64	CYR61 and Î±VÎ²5 Integrin Cooperate to Promote Invasion and Metastasis of Tumors Growing in Preirradiated Stroma. Cancer Research, 2008, 68, 7323-7331.	0.4	109
65	Skin cancer in survivors of childhood and adolescent cancer. European Journal of Cancer, 2006, 42, 656-659.	1.3	42
66	Treatment of penile carcinoma: To cut or not to cut?. International Journal of Radiation Oncology Biology Physics, 2006, 66, 674-679.	0.4	65
67	The Reasons for Discrepancies in Target Volume Delineation. Strahlentherapie Und Onkologie, 2006, 182, 450-457.	1.0	54
68	Decreased Local Control Following Radiation Therapy Alone in Early-Stage Glottic Carcinoma with Anterior Commissure Extension*. Strahlentherapie Und Onkologie, 2004, 180, 84-90.	1.0	52
69	Influence of scatter reduction method and monochromatic beams on image quality and dose in mammography. Medical Physics, 2003, 30, 3156-3164.	1.6	3
70	Assessment of the image contrast improvement and dose reduction in mammography with synchrotron radiation compared to standard units. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1349-1352.	0.7	4
71	Effect of scatter on image quality in synchrotron radiation mammography. , 2001, 4320, 590.		0
72	Objective comparison of image quality and dose between conventional and synchrotron radiation mammography. Physics in Medicine and Biology, 2000, 45, 3509-3523.	1.6	34

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73	‹title›Importance of anatomical noise in mammography‹/title›. , 1997, , .		20