Ludvig P Muren

List of Publications by Year
in descending order

100	1,902	293460	388640
papers	citations	24 h-index	36 g-index

101	101	101	2034
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A phase I/II study of acute and late physician assessed and patient-reported morbidity following whole pelvic radiation in high-risk prostate cancer patients. Acta OncolÃ³gica, 2022, 61, 179-184.	0.8	8
2	Signal requirements for 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012033.	0.3	3
3	Impact of curing conditions on basic dosimetric properties of silicone-based radiochromic dosimeters for photon and proton irradiation. Acta OncolÃ³gica, 2022, 61, 264-268.	0.8	10
4	RSC: Optically stimulated emission of LiF:Mg, Cu, P - towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012026.	0.3	1
5	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. Nano Letters, 2022, 22, 1566-1572.	4.5	15
6	Five years, 20 volumes and 300 publications of Physics and Imaging in Radiation Oncology. Physics and Imaging in Radiation Oncology, 2022, 21, 123-125.	1.2	2
7	Towards an integral clinical proton dose prediction uncertainty by considering delineation variation. Physics and Imaging in Radiation Oncology, 2022, 21, 134-135.	1.2	2
8	Optically stimulated luminescence in state-of-the-art LYSO:Ce scintillators enables high spatial resolution 3D dose imaging. Scientific Reports, 2022, 12, 8301.	1.6	9
9	Spatial Agreement of Brainstem Dose Distributions Depending on Biological Model in Proton Therapy for Pediatric Brain Tumors. Advances in Radiation Oncology, 2021, 6, 100551.	0.6	3
10	Variation in relative biological effectiveness for cognitive structures in proton therapy of pediatric brain tumors. Acta OncolÃ³gica, 2021, 60, 267-274.	0.8	6
11	In reply to the letter to the editor: â€œIn reply to Fiorino et al: The central role of the radiation oncologist in the multidisciplinary and multiprofessional model of modern radiation therapyâ€• Radiotherapy and Oncology, 2021, 155, e22-e23.	0.3	0
12	Anatomically robust proton therapy using multiple planning computed tomography scans for locally advanced prostate cancer. Acta OncolÃ³gica, 2021, 60, 598-604.	0.8	1
13	Response to: â€˜Comments on â€œTemporal lobe sparing radiotherapy with photons or protons for cognitive function preservation in paediatric craniopharyngiomaâ€•by Toussaint, et al.: Prior similar field arrangement work and a need for variable RBE Useâ€™. Radiotherapy and Oncology, 2021, 158, 330-331.	0.3	1
14	PREVIS: Predictive visual analytics of anatomical variability for radiotherapy decision support. Computers and Graphics, 2021, 97, 126-138.	1.4	9
15	Normal tissue complication probability models for prospectively scored late rectal and urinary morbidity after proton therapy of prostate cancer. Physics and Imaging in Radiation Oncology, 2021, 20, 62-68.	1.2	5
16	Temporal lobe sparing radiotherapy with photons or protons for cognitive function preservation in paediatric craniopharyngioma. Radiotherapy and Oncology, 2020, 142, 140-146.	0.3	15
17	Cross-modality applicability of rectal normal tissue complication probability models from photon- to proton-based radiotherapy. Radiotherapy and Oncology, 2020, 142, 253-260.	0.3	17
18	Total marrow and total lymphoid irradiation in bone marrow transplantation for acute leukaemia. Lancet Oncology, The, 2020, 21, e477-e487.	5.1	57

#	Article	IF	Citations
19	Grand challenges for medical physics in radiation oncology. Radiotherapy and Oncology, 2020, 153, 7-14.	0.3	33
20	VAPOR: Visual Analytics for the Exploration of Pelvic Organ Variability in Radiotherapy. Computers and Graphics, 2020, 91, 25-38.	1.4	10
21	Optical characterization of LiF:Mg,Cu,P â€“ Towards 3D optically stimulated luminescence dosimetry. Radiation Measurements, 2020, 138, 106390.	0.7	16
22	Multivariate normal tissue complication probability models for rectal and bladder morbidity in prostate cancer patients treated with proton therapy. Radiotherapy and Oncology, 2020, 153, 279-288.	0.3	6
23	Towards spatial representations of dose distributions to predict risk of normal tissue morbidity after radiotherapy. Physics and Imaging in Radiation Oncology, 2020, 15, 105-107.	1.2	6
24	Dose response of three-dimensional silicone-based radiochromic dosimeters for photon irradiation in the presence of a magnetic field. Physics and Imaging in Radiation Oncology, 2020, 16, 81-84.	1.2	7
25	Dose-response of deformable radiochromic dosimeters for spot scanning proton therapy. Physics and Imaging in Radiation Oncology, 2020, 16, 134-137.	1.2	15
26	Implementation of a double scattering nozzle for Monte Carlo recalculation of proton plans with variable relative biological effectiveness. Physics in Medicine and Biology, 2020, 65, 225033.	1.6	3
27	Normal tissue complication probability models in plan evaluation of children with brain tumors referred to proton therapy. Acta OncolÃ³gica, 2019, 58, 1416-1422.	0.8	12
28	Towards proton arc therapy: physical and biologically equivalent doses with increasing number of beams in pediatric brain irradiation. Acta OncolÃ³gica, 2019, 58, 1451-1456.	0.8	27
29	Radiation doses to brain substructures associated with cognition in radiotherapy of pediatric brain tumors. Acta OncolÃ³gica, 2019, 58, 1457-1462.	0.8	13
30	Adapting training for medical physicists to match future trends in radiation oncology. Physics and Imaging in Radiation Oncology, 2019, 11, 71-75.	1.2	6
31	Advanced treatment planning strategies to enhance quality and efficiency of radiotherapy. Physics and Imaging in Radiation Oncology, 2019, 11, 69-70.	1.2	3
32	Imaging science and development in modern high-precision radiotherapy. Physics and Imaging in Radiation Oncology, 2019, 12, 63-66.	1.2	7
33	On-line dose-guidance to account for inter-fractional motion during proton therapy. Physics and Imaging in Radiation Oncology, 2019, 9, 7-13.	1.2	7
34	Inter-centre variability of CT-based stopping-power prediction in particle therapy: Survey-based evaluation. Physics and Imaging in Radiation Oncology, 2018, 6, 25-30.	1.2	53
35	Uncertainty evaluation of image-based tumour control probability models in radiotherapy of prostate cancer using a visual analytic tool. Physics and Imaging in Radiation Oncology, 2018, 5, 5-8.	1.2	11
36	The role of dosimetry audit in achieving high quality radiotherapy. Physics and Imaging in Radiation Oncology, 2018, 5, 85-87.	1.2	21

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37	Validation of proton stopping power ratio estimation based on dual energy CT using fresh tissue samples. Physics in Medicine and Biology, 2018, 63, 015012.	1.6	54
38	Intensity-based volumetric registration of magnetic resonance images and whole-mount sections of the prostate. Computerized Medical Imaging and Graphics, 2018, 63, 24-30.	3.5	17
39	A case-control study using motion-inclusive spatial dose-volume metrics to account for genito-urinary toxicity following high-precision radiotherapy for prostate cancer. Physics and Imaging in Radiation Oncology, 2018, 7, 65-69.	1.2	2
40	Theoretical and experimental analysis of photon counting detector CT for proton stopping power prediction. Medical Physics, 2018, 45, 5186-5196.	1.6	11
41	The first year achievements of Physics and Imaging in Radiation Oncology. Physics and Imaging in Radiation Oncology, 2018, 5, 111-112.	1.2	1
42	A biological modelling based comparison of radiotherapy plan robustness using photons vs protons for focal prostate boosting. Physics and Imaging in Radiation Oncology, 2018, 6, 101-105.	1.2	4
43	Chemically tuned linear energy transfer dependent quenching in a deformable, radiochromic 3D dosimeter. Physics in Medicine and Biology, 2017, 62, N73-N89.	1.6	17
44	Evaluating the influence of organ motion during photon vs. proton therapy for locally advanced prostate cancer using biological models. Acta OncolÃ³gica, 2017, 56, 839-845.	0.8	6
45	Linear energy transfer distributions in the brainstem depending on tumour location in intensity-modulated proton therapy of paediatric cancer. Acta OncolÃ³gica, 2017, 56, 763-768.	0.8	36
46	Open issues in Physics and Imaging in Radiation Oncology. Physics and Imaging in Radiation Oncology, 2017, 1, 12-13.	1.2	5
47	Biological dose and complication probabilities for the rectum and bladder based on linear energy transfer distributions in spot scanning proton therapy of prostate cancer. Acta OncolÃ³gica, 2017, 56, 1413-1419.	0.8	19
48	The normal tissue sparing potential of an adaptive plan selection strategy for re-irradiation of recurrent rectal cancer. Physics and Imaging in Radiation Oncology, 2017, 3, 43-48.	1.2	6
49	A robust empirical parametrization of proton stopping power using dual energy CT. Medical Physics, 2016, 43, 5547-5560.	1.6	45
50	The potential of MRI-guided online adaptive re-optimisation in radiotherapy of urinary bladder cancer. Radiotherapy and Oncology, 2016, 118, 154-159.	0.3	49
51	Adaptive radiotherapy strategies for pelvic tumors â€“ a systematic review of clinical implementations. Acta OncolÃ³gica, 2016, 55, 943-958.	0.8	58
52	Modelling of organ-specific radiation-induced secondary cancer risks following particle therapy. Radiotherapy and Oncology, 2016, 120, 300-306.	0.3	14
53	A multiple-image-based method to evaluate the performance of deformable image registration in the pelvis. Physics in Medicine and Biology, 2016, 61, 6172-6180.	1.6	4
54	Biological dosimetry to assess risks of health effects in victims of radiation accidents: Thirty years after Chernobyl. Radiotherapy and Oncology, 2016, 119, 1-4.	0.3	6

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55	Expanding the scientific role of medical physics in radiotherapy: Time to act. Radiotherapy and Oncology, 2015, 117, 401-402.	0.3	15
56	A comparison between two clinically applied plan library strategies in adaptive radiotherapy of bladder cancer. Radiotherapy and Oncology, 2015, 117, 448-452.	0.3	16
57	Improving radiotherapy through medical physics developments. Radiotherapy and Oncology, 2015, 117, 403-406.	0.3	11
58	Intra-fractional bladder motion and margins in adaptive radiotherapy for urinary bladder cancer. Acta OncolÃ³gica, 2015, 54, 1461-1466.	0.8	26
59	The evolution of radiotherapy techniques in the management of prostate cancer. Acta OncolÃ³gica, 2015, 54, 821-824.	0.8	8
60	The research versus clinical service role of medical physics. Radiotherapy and Oncology, 2015, 114, 285-288.	0.3	24
61	Is integrated transit planar portal dosimetry able to detect geometric changes in lung cancer patients treated with volumetric modulated arc therapy?. Acta OncolÃ³gica, 2015, 54, 1501-1507.	0.8	16
62	Risk of radiation-induced secondary rectal and bladder cancer following radiotherapy of prostate cancer. Acta OncolÃ³gica, 2015, 54, 1317-1325.	0.8	19
63	A method for evaluation of proton plan robustness towards inter-fractional motion applied to pelvic lymph node irradiation. Acta OncolÃ³gica, 2015, 54, 1643-1650.	0.8	20
64	Relationships between dose to the gastro-intestinal tract and patient-reported symptom domains after radiotherapy for localized prostate cancer. Acta OncolÃ³gica, 2015, 54, 1326-1334.	0.8	32
65	A learning programme qualifying radiation therapists to manage daily online adaptive radiotherapy. Acta OncolÃ³gica, 2015, 54, 1697-1701.	0.8	20
66	An image-based method to quantify biomechanical properties of the rectum in radiotherapy of prostate cancer. Acta OncolÃ³gica, 2015, 54, 1335-1342.	0.8	11
67	NACP 2014 and the Turku PET symposium: The interaction between therapy and imaging. Acta OncolÃ³gica, 2014, 53, 993-996.	0.8	2
68	The impact of CBCT reconstruction and calibration for radiotherapy planning in the head and neck region â€“ a phantom study. Acta OncolÃ³gica, 2014, 53, 1114-1124.	0.8	17
69	Recommendations on how to establish evidence from auto-segmentation software in radiotherapy. Radiotherapy and Oncology, 2014, 112, 317-320.	0.3	48
70	Estimated risk of radiation-induced cancer following paediatric cranio-spinal irradiation with electron, photon and proton therapy. Acta OncolÃ³gica, 2014, 53, 1048-1057.	0.8	41
71	Advancing our quantitative understanding of radiotherapy normal tissue morbidity. Acta OncolÃ³gica, 2014, 53, 577-579.	0.8	8
72	A method for selection of beam angles robust to intra-fractional motion in proton therapy of lung cancer. Acta OncolÃ³gica, 2014, 53, 1058-1063.	0.8	21

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73	Normal tissue sparing in a phase II trial on daily adaptive plan selection in radiotherapy for urinary bladder cancer. Acta OncolÃ³gica, 2014, 53, 997-1004.	0.8	59
74	The distance discordance metricâ€"a novel approach to quantifying spatial uncertainties in intra- and inter-patient deformable image registration. Physics in Medicine and Biology, 2014, 59, 733-746.	1.6	30
75	Evaluation of an application for intensity-based deformable image registration and dose accumulation in radiotherapy. Acta OncolÃ³gica, 2014, 53, 1329-1336.	0.8	26
76	Patterns of Local Recurrence and Dose Fractionation of Adjuvant Radiation Therapy in 462 Patients With Soft Tissue Sarcoma of Extremity and Trunk Wall. International Journal of Radiation Oncology Biology Physics, 2013, 86, 949-955.	0.4	14
77	The on-going quest for treatment precision and conformality in radiotherapy. Radiotherapy and Oncology, 2013, 109, 337-341.	0.3	12
78	Treatment simulations with a statistical deformable motion model to evaluate margins for multiple targets in radiotherapy for high-risk prostate cancer. Radiotherapy and Oncology, 2013, 109, 344-349.	0.3	40
79	Treatment planning studies in radiotherapy. Radiotherapy and Oncology, 2013, 109, 342-343.	0.3	11
80	Adaptive radiotherapy in locally advanced prostate cancer using a statistical deformable motion model. Acta OncolÃ³gica, 2013, 52, 1423-1429.	0.8	19
81	Degradation of target coverage due to inter-fraction motion during intensity-modulated proton therapy of prostate and elective targets. Acta OncolÃ³gica, 2013, 52, 521-527.	0.8	43
82	Dosimetric verification of complex radiotherapy with a 3D optically based dosimetry system: Dose painting and target tracking. Acta OncolÃ³gica, 2013, 52, 1445-1450.	0.8	22
83	Establishing and expanding the indications for proton and particle therapy. Acta OncolÃ³gica, 2013, 52, 459-462.	0.8	8
84	Stereotactic body radiation therapy â€" A discipline with Nordic origin and profile. Acta OncolÃ³gica, 2012, 51, 564-567.	0.8	12
85	Temperature and temporal dependence of the optical response for a radiochromic dosimeter. Medical Physics, 2012, 39, 7232-7236.	1.6	18
86	Residual rotational set-up errors after daily cone-beam CT image guided radiotherapy of locally advanced cervical cancer. Radiotherapy and Oncology, 2012, 105, 220-225.	0.3	36
87	Clinical validation of the Acuros XB photon dose calculation algorithm, a grid-based Boltzmann equation solver. Acta OncolÃ³gica, 2012, 51, 376-385.	0.8	43
88	Clinical validation of a 4D-CT based method for lung ventilation measurement in phantoms and patients. Acta OncolÃ³gica, 2011, 50, 897-907.	0.8	18
89	Plan robustness of simultaneous integrated boost radiotherapy of prostate and lymph nodes for different image-guidance and delivery techniques. Acta OncolÃ³gica, 2011, 50, 926-934.	0.8	20
90	And they lived happily ever afterâ€¦ The marriage of Nordic Association for Clinical Physics and Acta Oncologica. Acta OncolÃ³gica, 2011, 50, 835-837.	0.8	8

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91	Evaluation of image quality for different kV cone-beam CT acquisition and reconstruction methods in the head and neck region. Acta OncolÃ³gica, 2011, 50, 908-917.	0.8	61
92	Normal liver tissue sparing by intensity-modulated proton stereotactic body radiotherapy for solitary liver tumours. Acta OncolÃ³gica, 2011, 50, 823-828.	0.8	52
93	A coverage probability based method to estimate patient-specific small bowel planning volumes for use in radiotherapy. Radiotherapy and Oncology, 2011, 100, 407-411.	0.3	16
94	Temperature dependence of the dose response for a solid-state radiochromic dosimeter during irradiation and storage. Medical Physics, 2011, 38, 2806-2811.	1.6	18
95	Characterization of the optical properties and stability of Presageâ„¢ following irradiation with photons and carbon ions. Acta OncolÃ³gica, 2011, 50, 829-834.	0.8	20
96	Inter- and intrafractional localisation errors in cone-beam CT guided stereotactic radiation therapy of tumours in the liver and lung. Acta OncolÃ³gica, 2010, 49, 1177-1183.	0.8	58
97	Daily kV cone-beam CT and deformable image registration as a method for studying dosimetric consequences of anatomic changes in adaptive IMRT of head and neck cancer. Acta OncolÃ³gica, 2010, 49, 1101-1108.	0.8	76
98	Evaluation of adaptive radiotherapy of bladder cancer by image-based tumour control probability modelling. Acta OncolÃ³gica, 2010, 49, 1045-1051.	0.8	22
99	Dynamic contrast enhanced magnetic resonance imaging of bladder cancer and implications for biological image-adapted radiotherapy. Acta OncolÃ³gica, 2008, 47, 1257-1264.	0.8	7
100	Norwegian Oncologists' Expectations of Intensity-modulated Radiotherapy. Acta OncolÃ³gica, 2002, 41, 562-565.	0.8	4