Uwe Schneider

List of Publications by Year
in descending order

119	5,328	31	70
papers	citations	h-index	g-index
		147566	88477

120	120	120	3277
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The calibration of CT Hounsfield units for radiotherapy treatment planning. Physics in Medicine and Biology, 1996, 41, 111-124.	1.6	837
2	The 200-MeV proton therapy project at the Paul Scherrer Institute: Conceptual design and practical realization. Medical Physics, 1995, 22, 37-53.	1.6	515
3	Potential reduction of the incidence of radiation-induced second cancers by using proton beams in the treatment of pediatric tumors. International Journal of Radiation Oncology Biology Physics, 2002, 54, 824-829.	0.4	386
4	Secondary neutron dose during proton therapy using spot scanning. International Journal of Radiation Oncology Biology Physics, 2002, 53, 244-251.	0.4	248
5	Estimation of radiation-induced cancer from three-dimensional dose distributions: Concept of organ equivalent dose. International Journal of Radiation Oncology Biology Physics, 2005, 61, 1510-1515.	0.4	198
6	Proton radiography as a tool for quality control in proton therapy. Medical Physics, 1995, 22, 353-363.	1.6	167
7	Intensity modulated photon and proton therapy for the treatment of head and neck tumors. Radiotherapy and Oncology, 2006, 80, 263-267.	0.3	156
8	Site-specific dose-response relationships for cancer induction from the combined Japanese A-bomb and Hodgkin cohorts for doses relevant to radiotherapy. Theoretical Biology and Medical Modelling, 2011, 8, 27.	2.1	154
9	The Impact of IMRT and Proton Radiotherapy on Secondary Cancer Incidence. Strahlentherapie Und Onkologie, 2006, 182, 647-652.	1.0	126
10	Assessment of radiation-induced second cancer risks in proton therapy and IMRT for organs inside the primary radiation field. Physics in Medicine and Biology, 2012, 57, 6047-6061.	1.6	104
11	Monte Carlo dose calculations for spot scanned proton therapy. Physics in Medicine and Biology, 2005, 50, 971-981.	1.6	100
12	First proton radiography of an animal patient. Medical Physics, 2004, 31, 1046-1051.	1.6	97
13	Multiple Coulomb scattering and spatial resolution in proton radiography. Medical Physics, 1994, 21, 1657-1663.	1.6	95
14	Mechanistic model of radiationâ€induced cancer after fractionated radiotherapy using the linearâ€quadratic formula. Medical Physics, 2009, 36, 1138-1143.	1.6	94
15	Comparative Risk Assessment of Secondary Cancer Incidence after Treatment of Hodgkin's Disease with Photon and Proton Radiation. Radiation Research, 2000, 154, 382-388.	0.7	89
16	Patient specific optimization of the relation between CT-Hounsfield units and proton stopping power with proton radiography. Medical Physics, 2004, 32, 195-199.	1.6	83
17	Cancer risk estimates from the combined Japanese A-bomb and Hodgkin cohorts for doses relevant to radiotherapy. Radiation and Environmental Biophysics, 2008, 47, 253-263.	0.6	81
18	Radiation risk estimates after radiotherapy: application of the organ equivalent dose concept to plateau doseâ€"response relationships. Radiation and Environmental Biophysics, 2005, 44, 235-239.	0.6	78

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19	Second cancers in children treated with modern radiotherapy techniques. Radiotherapy and Oncology, 2008, 89, 135-140.	0.3	69
20	Modeling the Risk of Secondary Malignancies after Radiotherapy. Genes, 2011, 2, 1033-1049.	1.0	62
21	A detector system for proton radiography on the gantry of the Paul-Scherrer-Institute. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 432, 483-495.	0.7	61
22	The Impact of Dose Escalation on Secondary Cancer Risk After Radiotherapy of Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2007, 68, 892-897.	0.4	61
23	Dose-response relationship for breast cancer induction at radiotherapy dose. Radiation Oncology, 2011, 6, 67.	1.2	55
24	A simple dose-response relationship for modeling secondary cancer incidence after radiotherapy* *Parts of this work were presented at the 15th annual NASA space radiation health investigators' workshop; May 2004, Port Jefferson, USA. Zeitschrift Fur Medizinische Physik, 2005, 15, 31-37.	0.6	54
25	Effect of Radiotherapy Volume and Dose on Secondary Cancer Risk in Stage I Testicular Seminoma. International Journal of Radiation Oncology Biology Physics, 2008, 70, 853-858.	0.4	52
26	Effect of Intensity-Modulated Pelvic Radiotherapy on Second Cancer Risk in the Postoperative Treatment of Endometrial and Cervical Cancer. International Journal of Radiation Oncology Biology Physics, 2009, 74, 539-545.	0.4	51
27	Measurements of the neutron dose equivalent for various radiation qualities, treatment machines and delivery techniques in radiation therapy. Physics in Medicine and Biology, 2014, 59, 2457-2468.	1.6	47
28	Introducing gel dosimetry in a clinical environment: Customization of polymer gel composition and magnetic resonance imaging parameters used for 3D dose verifications in radiosurgery and intensity modulated radiotherapy. Medical Physics, 2007, 34, 1286-1297.	1.6	45
29	Hodgkinâ€™s lymphoma emerging radiation treatment techniques: trade-offs between late radio-induced toxicities and secondary malignant neoplasms. Radiation Oncology, 2013, 8, 22.	1.2	44
30	The Impact of Neutrons in Clinical Proton Therapy. Frontiers in Oncology, 2015, 5, 235.	1.3	43
31	Neutron dose and its measurement in proton therapyâ€"current State of Knowledge. British Journal of Radiology, 2020, 93, 20190412.	1.0	40
32	Second cancer after radiotherapy, 1981â€"2007. Radiotherapy and Oncology, 2012, 105, 122-126.	0.3	35
33	Systematic measurements of wholeâ€body imaging dose distributions in imageâ€guided radiation therapy. Medical Physics, 2012, 39, 7650-7661.	1.6	34
34	Influence of respiration-induced organ motion on dose distributions in treatments using enhanced dynamic wedges. Medical Physics, 2001, 28, 2234-2240.	1.6	32
35	Hypofractionated radiotherapy has the potential for second cancer reduction. Theoretical Biology and Medical Modelling, 2010, 7, 4.	2.1	30
36	The water equivalence of solid materials used for dosimetry with small proton beams. Medical Physics, 2002, 29, 2946-2951.	1.6	29

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37	Evaluation of a commercial electron treatment planning system based on Monte Carlo techniques (eMC). Zeitschrift Fur Medizinische Physik, 2006, 16, 313-329.	0.6	29
38	Accuracy of out-of-field dose calculation of tomotherapy and cyberknife treatment planning systems: A dosimetric study. Zeitschrift Fur Medizinische Physik, 2014, 24, 211-215.	0.6	29
39	Systematic measurements of wholeâ€body dose distributions for various treatment machines and delivery techniques in radiation therapy. Medical Physics, 2012, 39, 7662-7676.	1.6	28
40	Intensityâ€modulated radiation therapy dose prescription and reporting: Sum and substance of the International Commission on Radiation Units and Measurements Report 83 for veterinary medicine. Veterinary Radiology and Ultrasound, 2019, 60, 255-264.	0.4	26
41	Assessment of organ dose reduction and secondary cancer risk associated with the use of proton beam therapy and intensity modulated radiation therapy in treatment of neuroblastomas. Radiation Oncology, 2013, 8, 255.	1.2	25
42	First spinal axis segment irradiation with spot-scanning proton beam delivered in the treatment of a lumbar primitive neuroectodermal tumour. Clinical Oncology, 2004, 16, 326-331.	0.6	24
43	Dose-response relationship for lung cancer induction at radiotherapy dose. Zeitschrift Fur Medizinische Physik, 2010, 20, 206-214.	0.6	24
44	A general model for stray dose calculation of static and intensityâ€modulated photon radiation. Medical Physics, 2016, 43, 1955-1968.	1.6	23
45	A technique for calculating range spectra of charged particle beams distal to thick inhomogeneities. Medical Physics, 1998, 25, 457-463.	1.6	22
46	On prognostic estimates of radiation risk in medicine and radiation protection. Radiation and Environmental Biophysics, 2019, 58, 305-319.	0.6	22
47	Neutron dose from prostheses material during radiotherapy with protons and photons. Physics in Medicine and Biology, 2004, 49, N119-N124.	1.6	21
48	POTENTIAL FOR INTENSITYâ€MODULATED RADIATION THERAPY TO PERMIT DOSE ESCALATION FOR CANINE NASAL CANCER. Veterinary Radiology and Ultrasound, 2007, 48, 475-481.	0.4	20
49	Wholeâ€body dose equivalent including neutrons is similar for 6 <scp>MV</scp> and 15 <scp>MV IMRT</scp>,<scp> VMAT</scp>, and 3D conformal radiotherapy. Journal of Applied Clinical Medical Physics, 2019, 20, 56-70.	0.8	19
50	Concept for quantifying the dose from image guided radiotherapy. Radiation Oncology, 2015, 10, 188.	1.2	18
51	Radiation-induced cancer risk predictions in proton and heavy ion radiotherapy. Physica Medica, 2017, 42, 259-262.	0.4	18
52	Risk of secondary cancers: Bridging epidemiology and modeling. Physica Medica, 2017, 42, 228-231.	0.4	18
53	Radiation-induced second malignancies after involved-node radiotherapy with deep-inspiration breath-hold technique for early stage Hodgkin Lymphoma: a dosimetric study. Radiation Oncology, 2014, 9, 58.	1.2	17
54	A track-event theory of cell survival. Zeitschrift Fur Medizinische Physik, 2015, 25, 168-175.	0.6	17

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55	Measurement of skin and target dose in post-mastectomy radiotherapy using 4 and 6 MV photon beams. Radiation Oncology, 2013, 8, 270.	1.2	16
56	The dose-response relationship for cardiovascular disease is not necessarily linear. Radiation Oncology, 2017, 12, 74.	1.2	16
57	A bespoke health risk assessment methodology for the radiation protection of astronauts. Radiation and Environmental Biophysics, 2021, 60, 213-231.	0.6	16
58	Phase shift of dielectric rolls in electroconvection. Physical Review A, 1992, 46, 1009-1013.	1.0	15
59	A method for determining weights for excess relative risk and excess absolute risk when applied in the calculation of lifetime risk of cancer from radiation exposure. Radiation and Environmental Biophysics, 2013, 52, 135-145.	0.6	14
60	Track-event theory of cell survival with second-order repair. Radiation and Environmental Biophysics, 2015, 54, 167-174.	0.6	14
61	Estimation of second cancer risk after radiotherapy for rectal cancer: comparison of 3D conformal radiotherapy and volumetric modulated arc therapy using different high dose fractionation schemes. Radiation Oncology, 2016, 11, 149.	1.2	14
62	A descriptive and broadly applicable model of therapeutic and stray absorbed dose from 6 to 25 MV photon beams. Medical Physics, 2017, 44, 3805-3814.	1.6	14
63	Validation of a Monte Carlo Framework for Out-of-Field Dose Calculations in Proton Therapy. Frontiers in Oncology, 0, 12, .	1.3	14
64	The exchange of radiotherapy data as part of an electronic patient-referral system. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1449-1456.	0.4	13
65	Calculated risk of fatal secondary malignancies from intensity-modulated radiotherapy: In regard to Kry et al. (Int J Radiat Oncol Biol Phys 2005;62:1195â€"1203). International Journal of Radiation Oncology Biology Physics, 2006, 64, 1290.	0.4	13
66	Preparatory study of a ground-based space radiobiology program in Europe. Advances in Space Research, 2007, 39, 1082-1086.	1.2	13
67	Prophylaxis of Heterotopic Ossification in Patients Sedated after Polytrauma. Strahlentherapie Und Onkologie, 2008, 184, 212-217.	1.0	12
68	Comparative simulations of neutron dose in soft tissue and phantom materials for proton and carbon ion therapy with actively scanned beams. Medical Physics, 2011, 38, 3149-3156.	1.6	12
69	Spatial resolution of proton tomography: Methods, initial phase space and object thickness. Zeitschrift Fur Medizinische Physik, 2012, 22, 100-108.	0.6	12
70	A COMPARISON OF NORMAL TISSUE COMPLICATION PROBABILITY OF BRAIN FOR PROTON AND PHOTON THERAPY OF CANINE NASAL TUMORS. Veterinary Radiology and Ultrasound, 2002, 43, 480-486.	0.4	11
71	Technical Note: Spatial resolution of proton tomography: Impact of air gap between patient and detector. Medical Physics, 2012, 39, 798-800.	1.6	11
72	Long-term intra-fractional motion of the prostate using hydrogel spacer during CyberknifeÂ® treatment for prostate cancer â€" a case report. Radiation Oncology, 2014, 9, 186.	1.2	11

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73	Neutrons in active proton therapy: Parameterization of dose and dose equivalent. Zeitschrift Fur Medizinische Physik, 2017, 27, 113-123.	0.6	11
74	A model of radiation action based on nanodosimetry and the application to ultra-soft X-rays. Radiation and Environmental Biophysics, 2020, 59, 439-450.	0.6	10
75	On small angle multiple Coulomb scattering of protons in the Gaussian approximation. Zeitschrift Fur Medizinische Physik, 2001, 11, 110-118.	0.6	9
76	How often should we perform arterial blood gas analysis during thoracoscopic surgery?. Journal of Clinical Anesthesia, 2007, 19, 569-575.	0.7	9
77	Cancer risk above 1Gy and the impact for space radiation protection. Advances in Space Research, 2009, 44, 202-209.	1.2	9
78	TRACK EVENT THEORY: A CELL SURVIVAL and RBE MODEL CONSISTENT WITH NANODOSIMETRY. Radiation Protection Dosimetry, 2019, 183, 17-21.	0.4	9
79	A newly designed radiation therapy protocol in combination with prednisolone as treatment for meningoencephalitis of unknown origin in dogs: a prospective pilot study introducing magnetic resonance spectroscopy as monitor tool. Acta Veterinaria Scandinavica, 2015, 57, 4.	0.5	8
80	Patient-Reported Toxicity Correlated to Doseâ€“Volume Histograms of the Rectum in Radiotherapy of the Prostate. American Journal of Clinical Oncology: Cancer Clinical Trials, 2003, 26, e144-e149.	0.6	7
81	Doseâ€“response relationship for radiation-induced cancerâ€"decrease or plateau at high dose: In regard to Davis (Int J Radiat Oncol Biol Phys 2004;59:916). International Journal of Radiation Oncology Biology Physics, 2005, 61, 312-313.	0.4	7
82	PROTON SPOT SCANNING RADIOTHERAPY OF SPONTANEOUS CANINE TUMORS. Veterinary Radiology and Ultrasound, 2009, 50, 314-318.	0.4	7
83	Neutrons in proton pencil beam scanning: parameterization of energy, quality factors and RBE. Physics in Medicine and Biology, 2016, 61, 6231-6242.	1.6	7
84	Tumour size can have an impact on the outcomes of epidemiological studies on second cancers after radiotherapy. Radiation and Environmental Biophysics, 2018, 57, 311-319.	0.6	7
85	Predictive factors for response to salvage stereotactic body radiotherapy in oligorecurrent prostate cancer limited to lymph nodes: a single institution experience. BMC Urology, 2019, 19, 84.	0.6	7
86	Cancer incidence risks above and below 1ÂGy for radiation protection in space. Life Sciences in Space Research, 2021, 28, 41-56.	1.2	7
87	Is the risk for secondary cancers after proton therapy enhanced distal to the Planning Target Volume? A two-case report with possible explanations. Radiation and Environmental Biophysics, 2006, 45, 39-43.	0.6	6
88	Field calibration of PADC track etch detectors for local neutron dosimetry in man using different radiation qualities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 205-210.	0.7	6
89	Age at exposure and attained age variations of cancer risk in the Japanese Aâ€bomb and radiotherapy cohorts. Medical Physics, 2015, 42, 4755-4761.	1.6	6
90	Technical note: No increase in effective dose from half compared to full rotation pelvis cone beam CT. Journal of Applied Clinical Medical Physics, 2017, 18, 364-368.	0.8	6

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91	Whole-body dose and energy measurements in radiotherapy by a combination of LiF:Mg,Cu,P and LiF:Mg,Ti. Zeitschrift Fur Medizinische Physik, 2018, 28, 96-109.	0.6	6
92	Comparing second cancer risk for multiple radiotherapy modalities in survivors of hodgkin lymphoma. British Journal of Radiology, 2021, 94, 20200354.	1.0	6
93	Phenomenological modelling of second cancer incidence for radiation treatment planning. Zeitschrift Fur Medizinische Physik, 2009, 19, 236-250.	0.6	5
94	Model of accelerated carcinogenesis based on proliferative stress and inflammation for doses relevant to radiotherapy. Radiation and Environmental Biophysics, 2012, 51, 451-456.	0.6	5
95	The Impact of the Geometrical Structure of the DNA on Parameters of the Track-Event Theory for Radiation Induced Cell Kill. PLoS ONE, 2016, 11, e0164929.	1.1	5
96	Protonenradiographie. Zeitschrift Fur Medizinische Physik, 1995, 5, 187-194.	0.6	4
97	Range-uncertainty imaging for obtaining dose perturbations in proton therapy. IEEE Transactions on Nuclear Science, 1998, 45, 2309-2313.	1.2	4
98	Development of whole-body representation and dose calculation in a commercial treatment planning system. Zeitschrift Fur Medizinische Physik, 2022, 32, 159-172.	0.6	4
99	A Novel Analytical Population Tumor Control Probability Model Includes Cell Density and Volume Variations: Application to Canine Brain Tumor. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1530-1537.	0.4	4
100	Retrospective evaluation of a robust hybrid planning technique established for irradiation of breast cancer patients with included mammary internal lymph nodes. Radiation Oncology, 2022, 17, 76.	1.2	4
101	Experimental Validation of an Analytical Program and a Monte Carlo Simulation for the Computation of the Far Out-of-Field Dose in External Beam Photon Therapy Applied to Pediatric Patients. Frontiers in Oncology, 0, 12, .	1.3	4
102	The influence of follow-up on DS02 low-dose ranges with a significant excess relative risk of all solid cancer in the Japanese A-bomb survivors. Radiation and Environmental Biophysics, 2016, 55, 509-515.	0.6	3
103	Technical Note: Comparison of peripheral patient dose from MR-guided 60 Co therapy and 6 MV linear accelerator IGRT. Medical Physics, 2017, 44, 3788-3793.	1.6	3
104	The probabilities of one- and multi-track events for modeling radiation-induced cell kill. Radiation and Environmental Biophysics, 2017, 56, 249-254.	0.6	3
105	First measurements of ionization clusterâ€size distributions with a compact nanodosimeter. Medical Physics, 2021, 48, 2566-2571.	1.6	3
106	Electrostatic field simulations and dynamic Monte Carlo simulations of a nanodosimetric detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1028, 166374.	0.7	3
107	Proton energy measurements using a NaI(T1) scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 388, 199-203.	0.7	2
108	Feasibility study of macroscopic simulations of nanodosimetric parameters for proton therapy. Medical Physics, 2020, 47, 5872-5881.	1.6	2

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109	Reducing margins for abdominopelvic tumours in dogs: Impact on doseâ€coverage and normal tissue complication probability. Veterinary and Comparative Oncology, 2021, 19, 266-274.	0.8	2
110	FIRE: A compact nanodosimeter detector based on ion amplification in gas. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 999, 165116.	0.7	2
111	History of proton radiography and tomography. Zeitschrift Fur Medizinische Physik, 2022, 32, 2-4.	0.6	2
112	CT based lung density correction verification with in vivo dosimetry using diodes. Zeitschrift Fur Medizinische Physik, 2001, 11, 257-260.	0.6	1
113	Quantitative proton radiography of an animal patient. , 2003, 5030, 585.		1
114	Monitor units are not predictive of neutron dose for high-energy IMRT. Radiation Oncology, 2012, 7, 138.	1.2	1
115	Effect of Heterogeneity in Background Incidence on Inference about the Solid-Cancer Radiation Dose Response in Atomic Bomb Survivors by Cologne et al., Radiat Res 2019; 192:388â€"398.. Radiation Research, 2020, 193, 195.	0.7	1
116	Tumour volume distribution can yield information on tumour growth and tumour control. Zeitschrift Fur Medizinische Physik, 2022, 32, 143-148.	0.6	1
117	Observation of Shift Phenomena when Using 3T MRI Scanners in Stereotactic Radiosurgery. Radiosurgery, 2010, , 113-127.	0.1	0
118	Yes, we need mechanistic biophysical models!. Zeitschrift Fur Medizinische Physik, 2015, 25, 206-207.	0.6	0
119	Investigation of the effect of air gap size on the spatial resolution in proton- and helium radio- and tomography. Zeitschrift Fur Medizinische Physik, 2020, , .	0.6	0