

Uwe Schneider

List of Publications by Citations

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112
papers

4,265
citations

29
h-index

63
g-index

120
ext. papers

4,832
ext. citations

3.5
avg, IF

5.49
L-index

#	Paper	IF	Citations
112	The calibration of CT Hounsfield units for radiotherapy treatment planning. <i>Physics in Medicine and Biology</i> , 1996 , 41, 111-24	3.8	649
111	The 200-MeV proton therapy project at the Paul Scherrer Institute: conceptual design and practical realization. <i>Medical Physics</i> , 1995 , 22, 37-53	4.4	439
110	Potential reduction of the incidence of radiation-induced second cancers by using proton beams in the treatment of pediatric tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 824-9	4	316
109	Secondary neutron dose during proton therapy using spot scanning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 53, 244-51	4	210
108	Estimation of radiation-induced cancer from three-dimensional dose distributions: Concept of organ equivalent dose. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1510-5	4	166
107	Proton radiography as a tool for quality control in proton therapy. <i>Medical Physics</i> , 1995 , 22, 353-63	4.4	132
106	Intensity modulated photon and proton therapy for the treatment of head and neck tumors. <i>Radiotherapy and Oncology</i> , 2006 , 80, 263-7	5.3	123
105	Site-specific dose-response relationships for cancer induction from the combined Japanese A-bomb and Hodgkin cohorts for doses relevant to radiotherapy. <i>Theoretical Biology and Medical Modelling</i> , 2011 , 8, 27	2.3	119
104	The impact of IMRT and proton radiotherapy on secondary cancer incidence. <i>Strahlentherapie Und Onkologie</i> , 2006 , 182, 647-52	4.3	110
103	Monte Carlo dose calculations for spot scanned proton therapy. <i>Physics in Medicine and Biology</i> , 2005 , 50, 971-81	3.8	87
102	Assessment of radiation-induced second cancer risks in proton therapy and IMRT for organs inside the primary radiation field. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6047-61	3.8	82
101	First proton radiography of an animal patient. <i>Medical Physics</i> , 2004 , 31, 1046-51	4.4	78
100	Multiple Coulomb scattering and spatial resolution in proton radiography. <i>Medical Physics</i> , 1994 , 21, 1657-63	4.4	76
99	Comparative risk assessment of secondary cancer incidence after treatment of Hodgkin's disease with photon and proton radiation. <i>Radiation Research</i> , 2000 , 154, 382-8	3.1	74
98	Patient specific optimization of the relation between CT-hounsfield units and proton stopping power with proton radiography. <i>Medical Physics</i> , 2005 , 32, 195-9	4.4	73
97	Mechanistic model of radiation-induced cancer after fractionated radiotherapy using the linear-quadratic formula. <i>Medical Physics</i> , 2009 , 36, 1138-43	4.4	70
96	Cancer risk estimates from the combined Japanese A-bomb and Hodgkin cohorts for doses relevant to radiotherapy. <i>Radiation and Environmental Biophysics</i> , 2008 , 47, 253-63	2	66

95	Radiation risk estimates after radiotherapy: application of the organ equivalent dose concept to plateau dose-response relationships. <i>Radiation and Environmental Biophysics</i> , 2005 , 44, 235-9	2	64
94	Second cancers in children treated with modern radiotherapy techniques. <i>Radiotherapy and Oncology</i> , 2008 , 89, 135-40	5.3	60
93	The impact of dose escalation on secondary cancer risk after radiotherapy of prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 892-7	4	57
92	Modeling the risk of secondary malignancies after radiotherapy. <i>Genes</i> , 2011 , 2, 1033-49	4.2	47
91	Dose-response relationship for breast cancer induction at radiotherapy dose. <i>Radiation Oncology</i> , 2011 , 6, 67	4.2	47
90	A simple dose-response relationship for modeling secondary cancer incidence after radiotherapy. <i>Zeitschrift Fur Medizinische Physik</i> , 2005 , 15, 31-7	7.6	47
89	A detector system for proton radiography on the gantry of the Paul-Scherrer-Institute. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 432, 483-495	1.2	47
88	Effect of radiotherapy volume and dose on secondary cancer risk in stage I testicular seminoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 853-8	4	46
87	Effect of intensity-modulated pelvic radiotherapy on second cancer risk in the postoperative treatment of endometrial and cervical cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 539-45	4	44
86	Measurements of the neutron dose equivalent for various radiation qualities, treatment machines and delivery techniques in radiation therapy. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2457-68	3.8	38
85	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. <i>Medical Physics</i> , 2007 , 34, 1286-97	4.4	36
84	Hodgkin's lymphoma emerging radiation treatment techniques: trade-offs between late radio-induced toxicities and secondary malignant neoplasms. <i>Radiation Oncology</i> , 2013 , 8, 22	4.2	35
83	Second cancer after radiotherapy, 1981-2007. <i>Radiotherapy and Oncology</i> , 2012 , 105, 122-6	5.3	29
82	Influence of respiration-induced organ motion on dose distributions in treatments using enhanced dynamic wedges. <i>Medical Physics</i> , 2001 , 28, 2234-40	4.4	27
81	The water equivalence of solid materials used for dosimetry with small proton beams. <i>Medical Physics</i> , 2002 , 29, 2946-51	4.4	27
80	The Impact of Neutrons in Clinical Proton Therapy. <i>Frontiers in Oncology</i> , 2015 , 5, 235	5.3	26
79	Systematic measurements of whole-body dose distributions for various treatment machines and delivery techniques in radiation therapy. <i>Medical Physics</i> , 2012 , 39, 7662-76	4.4	26
78	Systematic measurements of whole-body imaging dose distributions in image-guided radiation therapy. <i>Medical Physics</i> , 2012 , 39, 7650-61	4.4	26

77	Accuracy of out-of-field dose calculation of tomotherapy and cyberknife treatment planning systems: a dosimetric study. <i>Zeitschrift Fur Medizinische Physik</i> , 2014 , 24, 211-5	7.6	25
76	Hypofractionated radiotherapy has the potential for second cancer reduction. <i>Theoretical Biology and Medical Modelling</i> , 2010 , 7, 4	2.3	24
75	Evaluation of a commercial electron treatment planning system based on Monte Carlo techniques (eMC). <i>Zeitschrift Fur Medizinische Physik</i> , 2006 , 16, 313-29	7.6	24
74	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. <i>Radiation Oncology</i> , 2013 , 8, 255	4.2	23
73	A technique for calculating range spectra of charged particle beams distal to thick inhomogeneities. <i>Medical Physics</i> , 1998 , 25, 457-63	4.4	22
72	Dose-response relationship for lung cancer induction at radiotherapy dose. <i>Zeitschrift Fur Medizinische Physik</i> , 2010 , 20, 206-14	7.6	21
71	Neutron dose from prostheses material during radiotherapy with protons and photons. <i>Physics in Medicine and Biology</i> , 2004 , 49, N119-24	3.8	20
70	First spinal axis segment irradiation with spot-scanning proton beam delivered in the treatment of a lumbar primitive neuroectodermal tumour. Case report and review of the literature. <i>Clinical Oncology</i> , 2004 , 16, 326-31	2.8	19
69	Potential for intensity-modulated radiation therapy to permit dose escalation for canine nasal cancer. <i>Veterinary Radiology and Ultrasound</i> , 2007 , 48, 475-81	1.2	16
68	A general model for stray dose calculation of static and intensity-modulated photon radiation. <i>Medical Physics</i> , 2016 , 43, 1955	4.4	16
67	Intensity-modulated radiation therapy dose prescription and reporting: Sum and substance of the International Commission on Radiation Units and Measurements Report 83 for veterinary medicine. <i>Veterinary Radiology and Ultrasound</i> , 2019 , 60, 255-264	1.2	16
66	On prognostic estimates of radiation risk in medicine and radiation protection. <i>Radiation and Environmental Biophysics</i> , 2019 , 58, 305-319	2	15
65	Phase shift of dielectric rolls in electroconvection. <i>Physical Review A</i> , 1992 , 46, 1009-1013	2.6	15
64	A track-event theory of cell survival. <i>Zeitschrift Fur Medizinische Physik</i> , 2015 , 25, 168-75	7.6	14
63	Radiation-induced cancer risk predictions in proton and heavy ion radiotherapy. <i>Physica Medica</i> , 2017 , 42, 259-262	2.7	13
62	Radiation-induced second malignancies after involved-node radiotherapy with deep-inspiration breath-hold technique for early stage Hodgkin Lymphoma: a dosimetric study. <i>Radiation Oncology</i> , 2014 , 9, 58	4.2	13
61	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. <i>Radiation and Environmental Biophysics</i> , 2013 , 52, 135-45	2	13
60	Concept for quantifying the dose from image guided radiotherapy. <i>Radiation Oncology</i> , 2015 , 10, 188	4.2	13

59	The exchange of radiotherapy data as part of an electronic patient-referral system. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 47, 1449-56	4	13
58	Neutron dose and its measurement in proton therapy-current State of Knowledge. <i>British Journal of Radiology</i> , 2020 , 93, 20190412	3.4	13
57	Risk of secondary cancers: Bridging epidemiology and modeling. <i>Physica Medica</i> , 2017 , 42, 228-231	2.7	12
56	Track-event theory of cell survival with second-order repair. <i>Radiation and Environmental Biophysics</i> , 2015 , 54, 167-74	2	12
55	Calculated risk of fatal secondary malignancies from intensity-modulated radiotherapy: In regard to Kry et al. (Int J Radiat Oncol Biol Phys 2005;62:1195-1203). <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 64, 1290; author reply 1290-1	4	12
54	Prophylaxis of heterotopic ossification in patients sedated after polytrauma : medical and ethical considerations. <i>Strahlentherapie Und Onkologie</i> , 2008 , 184, 212-7	4.3	11
53	A descriptive and broadly applicable model of therapeutic and stray absorbed dose from 6 to 25 MV photon beams. <i>Medical Physics</i> , 2017 , 44, 3805-3814	4.4	10
52	Measurement of skin and target dose in post-mastectomy radiotherapy using 4 and 6 MV photon beams. <i>Radiation Oncology</i> , 2013 , 8, 270	4.2	10
51	The dose-response relationship for cardiovascular disease is not necessarily linear. <i>Radiation Oncology</i> , 2017 , 12, 74	4.2	10
50	Spatial resolution of proton tomography: Methods, initial phase space and object thickness. <i>Zeitschrift Fur Medizinische Physik</i> , 2012 , 22, 100-8	7.6	10
49	Comparative simulations of neutron dose in soft tissue and phantom materials for proton and carbon ion therapy with actively scanned beams. <i>Medical Physics</i> , 2011 , 38, 3149-56	4.4	10
48	Technical note: spatial resolution of proton tomography: impact of air gap between patient and detector. <i>Medical Physics</i> , 2012 , 39, 798-800	4.4	10
47	Preparatory study of a ground-based space radiobiology program in Europe. <i>Advances in Space Research</i> , 2007 , 39, 1082-1086	2.4	10
46	A comparison of normal tissue complication probability of brain for proton and photon therapy of canine nasal tumors. <i>Veterinary Radiology and Ultrasound</i> , 2002 , 43, 480-6	1.2	10
45	Cancer risk above 1 Gy and the impact for space radiation protection. <i>Advances in Space Research</i> , 2009 , 44, 202-209	2.4	9
44	Whole-body dose equivalent including neutrons is similar for 6 MV and 15 MV IMRT, VMAT, and 3D conformal radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 56-70	2.3	8
43	Long-term intra-fractional motion of the prostate using hydrogel spacer during Cyberknife treatment for prostate cancer--a case report. <i>Radiation Oncology</i> , 2014 , 9, 186	4.2	8
42	Neutrons in active proton therapy: Parameterization of dose and dose equivalent. <i>Zeitschrift Fur Medizinische Physik</i> , 2017 , 27, 113-123	7.6	8

41	On small angle multiple coulomb scattering of protons in the gaussian approximation. <i>Zeitschrift Fur Medizinische Physik</i> , 2001 , 11, 110-8	7.6	8
40	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. <i>Radiation Oncology</i> , 2016 , 11, 149	4.2	8
39	Proton spot scanning radiotherapy of spontaneous canine tumors. <i>Veterinary Radiology and Ultrasound</i> , 2009 , 50, 314-8	1.2	7
38	How often should we perform arterial blood gas analysis during thoracoscopic surgery?. <i>Journal of Clinical Anesthesia</i> , 2007 , 19, 569-75	1.9	7
37	Dose-response relationship for radiation-induced cancer--decrease or plateau at high dose: in regard to Davis (Int J Radiat Oncol Biol Phys 2004;59:916). <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 312-3; author reply 313	4	7
36	TRACK EVENT THEORY: A CELL SURVIVAL and RBE MODEL CONSISTENT WITH NANODOSIMETRY. <i>Radiation Protection Dosimetry</i> , 2019 , 183, 17-21	0.9	7
35	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. <i>Acta Veterinaria Scandinavica</i> , 2015 , 57, 4	2	6
34	Age at exposure and attained age variations of cancer risk in the Japanese A-bomb and radiotherapy cohorts. <i>Medical Physics</i> , 2015 , 42, 4755-61	4.4	6
33	Is the risk for secondary cancers after proton therapy enhanced distal to the Planning Target Volume? A two-case report with possible explanations. <i>Radiation and Environmental Biophysics</i> , 2006 , 45, 39-43	2	6
32	Patient-reported toxicity correlated to dose-volume histograms of the rectum in radiotherapy of the prostate. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2003 , 26, e144-9	2.7	6
31	A model of radiation action based on nanodosimetry and the application to ultra-soft X-rays. <i>Radiation and Environmental Biophysics</i> , 2020 , 59, 439-450	2	5
30	Neutrons in proton pencil beam scanning: parameterization of energy, quality factors and RBE. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6231-42	3.8	5
29	Field calibration of PADC track etch detectors for local neutron dosimetry in man using different radiation qualities. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 694, 205-210	1.2	5
28	Phenomenological modelling of second cancer incidence for radiation treatment planning. <i>Zeitschrift Fur Medizinische Physik</i> , 2009 , 19, 236-50	7.6	5
27	The Impact of the Geometrical Structure of the DNA on Parameters of the Track-Event Theory for Radiation Induced Cell Kill. <i>PLoS ONE</i> , 2016 , 11, e0164929	3.7	5
26	Predictive factors for response to salvage stereotactic body radiotherapy in oligorecurrent prostate cancer limited to lymph nodes: a single institution experience. <i>BMC Urology</i> , 2019 , 19, 84	2.2	4
25	Whole-body dose and energy measurements in radiotherapy by a combination of LiF:Mg,Cu,P and LiF:Mg,Ti. <i>Zeitschrift Fur Medizinische Physik</i> , 2018 , 28, 96-109	7.6	4
24	Protonenradiographie. <i>Zeitschrift Fur Medizinische Physik</i> , 1995 , 5, 187-194	7.6	4

23	A bespoke health risk assessment methodology for the radiation protection of astronauts. <i>Radiation and Environmental Biophysics</i> , 2021 , 60, 213-231	2	4
22	Tumour size can have an impact on the outcomes of epidemiological studies on second cancers after radiotherapy. <i>Radiation and Environmental Biophysics</i> , 2018 , 57, 311-319	2	4
21	Technical Note: Comparison of peripheral patient dose from MR-guided Co therapy and 6 MV linear accelerator IGRT. <i>Medical Physics</i> , 2017 , 44, 3788-3793	4.4	3
20	The probabilities of one- and multi-track events for modeling radiation-induced cell kill. <i>Radiation and Environmental Biophysics</i> , 2017 , 56, 249-254	2	3
19	Technical note: No increase in effective dose from half compared to full rotation pelvis cone beam CT. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 364-368	2.3	3
18	Model of accelerated carcinogenesis based on proliferative stress and inflammation for doses relevant to radiotherapy. <i>Radiation and Environmental Biophysics</i> , 2012 , 51, 451-6	2	3
17	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. <i>Radiation and Environmental Biophysics</i> , 2016 , 55, 509-515 ²		3
16	Cancer incidence risks above and below 1 Gy for radiation protection in space. <i>Life Sciences in Space Research</i> , 2021 , 28, 41-56	2.4	3
15	Proton energy measurements using a NaI(Tl) scintillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997 , 388, 199-203	1.2	2
14	Range-uncertainty imaging for obtaining dose perturbations in proton therapy. <i>IEEE Transactions on Nuclear Science</i> , 1998 , 45, 2309-2313	1.7	2
13	Comparing second cancer risk for multiple radiotherapy modalities in survivors of hodgkin lymphoma. <i>British Journal of Radiology</i> , 2021 , 94, 20200354	3.4	2
12	Monitor units are not predictive of neutron dose for high-energy IMRT. <i>Radiation Oncology</i> , 2012 , 7, 1384.2		1
11	Quantitative proton radiography of an animal patient 2003 , 5030, 585		1
10	Effect of Heterogeneity in Background Incidence on Inference about the Solid-Cancer Radiation Dose Response in Atomic Bomb Survivors by Cologne Radiat Res 2019; 192:388-398. <i>Radiation Research</i> , 2020 , 193, 195-197	3.1	1
9	Feasibility study of macroscopic simulations of nanodosimetric parameters for proton therapy. <i>Medical Physics</i> , 2020 , 47, 5872-5881	4.4	1
8	First measurements of ionization cluster-size distributions with a compact nanodosimeter. <i>Medical Physics</i> , 2021 , 48, 2566-2571	4.4	1
7	Reducing margins for abdominopelvic tumours in dogs: Impact on dose-coverage and normal tissue complication probability. <i>Veterinary and Comparative Oncology</i> , 2021 , 19, 266-274	2.5	1
6	Electrostatic field simulations and dynamic Monte Carlo simulations of a nanodosimetric detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 1028, 166374	1.2	0

5	FIRE: A compact nanodosimeter detector based on ion amplification in gas. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 999, 165116	1.2	○
4	A Novel Analytical Population Tumor Control Probability Model Includes Cell Density and Volume Variations: Application to Canine Brain Tumor. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 1530-1537	4	○
3	Retrospective evaluation of a robust hybrid planning technique established for irradiation of breast cancer patients with included mammary internal lymph nodes.. <i>Radiation Oncology</i> , 2022 , 17, 76	4.2	○
2	Observation of Shift Phenomena when Using 3T MRI Scanners in Stereotactic Radiosurgery. <i>Radiosurgery</i> , 2010 , 113-127		
1	CT based lung density correction verification with in vivo dosimetry using diodes. <i>Zeitschrift Fur Medizinische Physik</i> , 2001 , 11, 257-60	7.6	