Stefan H Bartzsch

List of Publications by Year
in descending order

40	641	567144 15	610775 24
papers	citations	h-index	g-index

41	41	41	581
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Treatment Planning Study for Microbeam Radiotherapy Using Clinical Patient Data. Cancers, 2022, 14, 685.	1.7	5
2	Heat management of a compact xâ€ray source for microbeam radiotherapy and FLASH treatments. Medical Physics, 2022, , .	1.6	4
3	The effect of non-ionizing excitations on the diffusion of ion species and inter-track correlations in FLASH ultra-high dose rate radiotherapy. Physics in Medicine and Biology, 2022, 67, 105005.	1.6	11
4	Normal Tissue Response of Combined Temporal and Spatial Fractionation in Proton Minibeam Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 76-83.	0.4	12
5	Establishment of Microbeam Radiation Therapy at a Small-Animal Irradiator. International Journal of Radiation Oncology Biology Physics, 2021, 109, 626-636.	0.4	6
6	Deep Learning Based HPV Status Prediction for Oropharyngeal Cancer Patients. Cancers, 2021, 13, 786.	1.7	23
7	Perspectives for microbeam irradiation at the SYRMEP beamline. Journal of Synchrotron Radiation, 2021, 28, 410-418.	1.0	4
8	A commercial treatment planning system with a hybrid dose calculation algorithm for synchrotron radiotherapy trials. Physics in Medicine and Biology, 2021, 66, 055016.	1.6	4
9	Impact of DNA repair and reactive oxygen species levels on radioresistance in pancreatic cancer. Radiotherapy and Oncology, 2021, 159, 265-276.	0.3	9
10	Quantification of Differential Response of Tumour and Normal Cells to Microbeam Radiation in the Absence of FLASH Effects. Cancers, 2021, 13, 3238.	1.7	9
11	A Mouse Model for Microbeam Radiation Therapy of the Lung. International Journal of Radiation Oncology Biology Physics, 2021, 110, 521-525.	0.4	16
12	A Multi-Scale and Multi-Technique Approach for the Characterization of the Effects of Spatially Fractionated X-ray Radiation Therapies in a Preclinical Model. Cancers, 2021, 13, 4953.	1.7	4
13	X-ray Phase Contrast 3D virtual histology: evaluation of lung alterations after micro-beam irradiation. International Journal of Radiation Oncology Biology Physics, 2021, , .	0.4	1
14	Non-conventional Ultra-High Dose Rate (FLASH) Microbeam Radiotherapy Provides Superior Normal Tissue Sparing in Rat Lung Compared to Non-conventional Ultra-High Dose Rate (FLASH) Radiotherapy. Cureus, 2021, 13, e19317.	0.2	4
15	Tolerance of Normal Rabbit Facial Bones and Teeth to Synchrotron X-Ray Microbeam Irradiation. Radiation Research, 2021, 197, .	0.7	0
16	A proof of principle experiment for microbeam radiation therapy at the Munich compact light source. Radiation and Environmental Biophysics, 2020, 59, 111-120.	0.6	15
17	Technical advances in x-ray microbeam radiation therapy. Physics in Medicine and Biology, 2020, 65, 02TR01.	1.6	38
18	First demonstration of real-time in-situ dosimetry of X-ray microbeams using a large format CMOS sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164395.	0.7	1

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19	Technical and dosimetric realization of in vivo xâ€ray microbeam irradiations at the Munich Compact Light Source. Medical Physics, 2020, 47, 5183-5193.	1.6	3
20	Simulation and measurement of microbeam dose distribution in lung tissue. Physica Medica, 2020, 75, 77-82.	0.4	4
21	Clinical microbeam radiation therapy with a compact source: specifications of the line-focus X-ray tube. Physics and Imaging in Radiation Oncology, 2020, 14, 74-81.	1.2	7
22	Evaluation of a pixelated large format CMOS sensor for xâ€ray microbeam radiotherapy. Medical Physics, 2020, 47, 1305-1316.	1.6	6
23	Film dosimetry studies for patient specific quality assurance in microbeam radiation therapy. Physica Medica, 2019, 65, 227-237.	0.4	15
24	Acute Skin Damage and Late Radiation-Induced Fibrosis and Inflammation in Murine Ears after High-Dose Irradiation. Cancers, 2019, 11, 727.	1.7	14
25	Locomotion and eating behavior changes in Yucatan minipigs after unilateral radio-induced ablation of the caudate nucleus. Scientific Reports, 2019, 9, 17082.	1.6	9
26	Synchrotron-generated microbeams induce hippocampal transections in rats. Scientific Reports, 2018, 8, 184.	1.6	7
27	Hybrid dose calculation: a dose calculation algorithm for microbeam radiation therapy. Physics in Medicine and Biology, 2018, 63, 045013.	1.6	25
28	A point kernel algorithm for microbeam radiation therapy. Physics in Medicine and Biology, 2017, 62, 8341-8359.	1.6	14
29	Line focus x-ray tubesâ€"a new concept to produce high brilliance x-rays. Physics in Medicine and Biology, 2017, 62, 8600-8615.	1.6	29
30	Microbeam radiation therapy at a laser-based compact synchrotron x-ray source. , 2017, , .		1
31	A preclinical microbeam facility with a conventional xâ€ray tube. Medical Physics, 2016, 43, 6301-6308.	1.6	19
32	Energy spectra considerations for synchrotron radiotherapy trials on the ID17 bio-medical beamline at the European Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2015, 22, 1035-1041.	1.0	40
33	Medical physics aspects of the synchrotron radiation therapies: Microbeam radiation therapy (MRT) and synchrotron stereotactic radiotherapy (SSRT). Physica Medica, 2015, 31, 568-583.	0.4	83
34	Micrometerâ€resolved film dosimetry using a microscope in microbeam radiation therapy. Medical Physics, 2015, 42, 4069-4079.	1.6	37
35	Synchrotron X Ray Induced Axonal Transections in the Brain of Rats Assessed by High-Field Diffusion Tensor Imaging Tractography. PLoS ONE, 2014, 9, e88244.	1.1	9
36	Influence of polarization and a source model for dose calculation in MRT. Medical Physics, 2014, 41, 041703.	1.6	23

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37	A new concept of pencil beam dose calculation for 40â€“200 keV photons using analytical dose kernels. Medical Physics, 2013, 40, 111714.	1.6	21
38	Response of the rat spinal cord to X-ray microbeams. Radiotherapy and Oncology, 2013, 106, 106-111.	0.3	51
39	Pencilbeam Irradiation Technique for Whole Brain Radiotherapy: Technical and Biological Challenges in a Small Animal Model. PLoS ONE, 2013, 8, e54960.	1.1	20
40	Resolving the lithosphere-asthenosphere boundary with seismic Rayleigh waves. Geophysical Journal International, 2011, 186, 1152-1164.	1.0	36