Jeffrey C Crosbie

List of Publications by Citations

30 papers	732 citations	16 h-index	27 g-index
30 ext. papers	878 ext. citations	2.7 avg, IF	3.62 L-index

#	Paper	IF	Citations
30	Tumor cell response to synchrotron microbeam radiation therapy differs markedly from cells in normal tissues. *International Journal of Radiation Oncology Biology Physics*, **2010**, 77, 886-94	4	117
29	Medical physics aspects of the synchrotron radiation therapies: Microbeam radiation therapy (MRT) and synchrotron stereotactic radiotherapy (SSRT). *Physica Medica*, **2015**, 31, 568-83	2.7	71
28	Quantitative characterization of the X-ray beam at the Australian Synchrotron Imaging and Medical Beamline (IMBL). *Journal of Synchrotron Radiation*, **2017**, 24, 110-141	2.4	49
27	Memory and survival after microbeam radiation therapy. *European Journal of Radiology*, **2008**, 68, S142-6	4.7	48
26	Comparative toxicity of synchrotron and conventional radiation therapy based on total and partial body irradiation in a murine model. *Scientific Reports*, **2018**, 8, 12044	4.9	47
25	An evaluation of dose equivalence between synchrotron microbeam radiation therapy and conventional broad beam radiation using clonogenic and cell impedance assays. *PLoS ONE*, **2014**, 9, e100547	3.7	39
24	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, 1035-41	2.4	34
23	Biodosimetric quantification of short-term synchrotron microbeam versus broad-beam radiation damage to mouse skin using a dermatopathological scoring system. *British Journal of Radiology*, **2011**, 84, 833-42	3.4	30
22	Preclinical radiotherapy at the Australian Synchrotron Imaging and Medical Beamline: instrumentation, dosimetry and a small-animal feasibility study. *Journal of Synchrotron Radiation*, **2017**, 24, 854-865	2.4	27
21	Genome-wide transcription responses to synchrotron microbeam radiotherapy. *Radiation Research*, **2012**, 178, 249-59	3.1	27
20	The normal tissue effects of microbeam radiotherapy: What do we know, and what do we need to know to plan a human clinical trial?. *International Journal of Radiation Biology*, **2016**, 92, 302-11	2.9	27
19	Reference dosimetry at the Australian Synchrotron imaging and medical beamline using free-air ionization chamber measurements and theoretical predictions of air kerma rate and half value layer. *Medical Physics*, **2013**, 40, 062103	4.4	25
18	High spatial resolution dosimetric response maps for radiotherapy ionization chambers measured using kilovoltage synchrotron radiation. *Physics in Medicine and Biology*, **2015**, 60, 8625-41	3.8	23
17	Benchmarking and validation of a Geant4-SHADOW Monte Carlo simulation for dose calculations in microbeam radiation therapy. *Journal of Synchrotron Radiation*, **2014**, 21, 518-28	2.4	23
16	In situ biological dose mapping estimates the radiation burden delivered to spared tissue between synchrotron X-ray microbeam radiotherapy tracks. *PLoS ONE*, **2012**, 7, e29853	3.7	22
15	In vitro study of genes and molecular pathways differentially regulated by synchrotron microbeam radiotherapy. *Radiation Research*, **2014**, 182, 626-39	3.1	18
14	Technical advances in x-ray microbeam radiation therapy. *Physics in Medicine and Biology*, **2020**, 65, 02TR01	3.8	15

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13	Eosinophil-Associated Gene Pathways but not Eosinophil Numbers are Differentially Regulated between Synchrotron Microbeam Radiation Treatment and Synchrotron Broad-Beam Treatment by 48 Hours Postirradiation. *Radiation Research*, **2016**, 185, 60-8	3.1	14
12	Synchrotron microbeam radiotherapy evokes a different early tumor immunomodulatory response to conventional radiotherapy in EMT6.5 mammary tumors. *Radiotherapy and Oncology*, **2019**, 133, 93-99	5.3	12
11	Synchrotron microbeam radiotherapy in a commercially available treatment planning system. *Biomedical Physics and Engineering Express*, **2017**, 3, 025001	1.5	11
10	DNA damage and repair kinetics after microbeam radiation therapy emulation in living cells using monoenergetic synchrotron X-ray microbeams. *Journal of Synchrotron Radiation*, **2011**, 18, 630-6	2.4	10
9	Image guidance protocol for synchrotron microbeam radiation therapy. *Journal of Synchrotron Radiation*, **2016**, 23, 566-73	2.4	10
8	Microbeam-irradiated tumour tissue possesses a different infrared absorbance profile compared to broad beam and sham-irradiated tissue. *International Journal of Radiation Biology*, **2013**, 89, 79-87	2.9	9
7	Identifying optimal clinical scenarios for synchrotron microbeam radiation therapy: A treatment planning study. *Physica Medica*, **2019**, 60, 111-119	2.7	7
6	Pre-treatment verification of intensity modulated radiation therapy plans using a commercial electronic portal dosimetry system. *Australasian Physical and Engineering Sciences in Medicine*, **2010**, 33, 51-7	1.9	7
5	An evaluation of novel real-time technology as a tool for measurement of radiobiological and radiation-induced bystander effects. *Radiation and Environmental Biophysics*, **2016**, 55, 185-94	2	4
4	Phase contrast image guidance for synchrotron microbeam radiotherapy. *Physics in Medicine and Biology*, **2016**, 61, 5942-55	3.8	3
3	The H2AX DSB marker may not be a suitable biodosimeter to measure the biological MRT valley dose. *International Journal of Radiation Biology*, **2021**, 97, 642-656	2.9	3
2	Spatially Fractionated X-Ray Microbeams Elicit a More Sustained Immune and Inflammatory Response in the Brainstem than Homogenous Irradiation. *Radiation Research*, **2021**, 196, 355-365	3.1	0
1	A theoretical study to focus a polychromatic synchrotron X-ray beam for microbeam radiation therapy. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 997, 165156	1.2	