

# Jeffrey C Crosbie

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The H2AX DSB marker may not be a suitable biodosimeter to measure the biological MRT valley dose. <i>International Journal of Radiation Biology</i> , <b>2021</b> , 97, 642-656	2.9	3
29	A theoretical study to focus a polychromatic synchrotron X-ray beam for microbeam radiation therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 997, 165156	1.2	
28	Spatially Fractionated X-Ray Microbeams Elicit a More Sustained Immune and Inflammatory Response in the Brainstem than Homogenous Irradiation. <i>Radiation Research</i> , <b>2021</b> , 196, 355-365	3.1	0
27	Technical advances in x-ray microbeam radiation therapy. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 02TR008	9.8	15
26	Identifying optimal clinical scenarios for synchrotron microbeam radiation therapy: A treatment planning study. <i>Physica Medica</i> , <b>2019</b> , 60, 111-119	2.7	7
25	Synchrotron microbeam radiotherapy evokes a different early tumor immunomodulatory response to conventional radiotherapy in EMT6.5 mammary tumors. <i>Radiotherapy and Oncology</i> , <b>2019</b> , 133, 93-99	5.3	12
24	Comparative toxicity of synchrotron and conventional radiation therapy based on total and partial body irradiation in a murine model. <i>Scientific Reports</i> , <b>2018</b> , 8, 12044	4.9	47
23	Preclinical radiotherapy at the Australian Synchrotron X Imaging and Medical Beamline: instrumentation, dosimetry and a small-animal feasibility study. <i>Journal of Synchrotron Radiation</i> , <b>2017</b> , 24, 854-865	2.4	27
22	Quantitative characterization of the X-ray beam at the Australian Synchrotron Imaging and Medical Beamline (IMBL). <i>Journal of Synchrotron Radiation</i> , <b>2017</b> , 24, 110-141	2.4	49
21	Synchrotron microbeam radiotherapy in a commercially available treatment planning system. <i>Biomedical Physics and Engineering Express</i> , <b>2017</b> , 3, 025001	1.5	11
20	Phase contrast image guidance for synchrotron microbeam radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 5942-55	3.8	3
19	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. <i>Radiation Research</i> , <b>2016</b> , 185, 60-8	3.1	14
18	Image guidance protocol for synchrotron microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , <b>2016</b> , 23, 566-73	2.4	10
17	An evaluation of novel real-time technology as a tool for measurement of radiobiological and radiation-induced bystander effects. <i>Radiation and Environmental Biophysics</i> , <b>2016</b> , 55, 185-94	2	4
16	The normal tissue effects of microbeam radiotherapy: What do we know, and what do we need to know to plan a human clinical trial?. <i>International Journal of Radiation Biology</i> , <b>2016</b> , 92, 302-11	2.9	27
15	High spatial resolution dosimetric response maps for radiotherapy ionization chambers measured using kilovoltage synchrotron radiation. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 8625-41	3.8	23
14	Energy spectra considerations for synchrotron radiotherapy trials on the ID17 bio-medical beamline at the European Synchrotron Radiation Facility. <i>Journal of Synchrotron Radiation</i> , <b>2015</b> , 22, 1035-41	2.4	34

13	Medical physics aspects of the synchrotron radiation therapies: Microbeam radiation therapy (MRT) and synchrotron stereotactic radiotherapy (SSRT). <i>Physica Medica</i> , <b>2015</b> , 31, 568-83	2.7	71
12	Benchmarking and validation of a Geant4-SHADOW Monte Carlo simulation for dose calculations in microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , <b>2014</b> , 21, 518-28	2.4	23
11	An evaluation of dose equivalence between synchrotron microbeam radiation therapy and conventional broad beam radiation using clonogenic and cell impedance assays. <i>PLoS ONE</i> , <b>2014</b> , 9, e100347	3.7	39
10	In vitro study of genes and molecular pathways differentially regulated by synchrotron microbeam radiotherapy. <i>Radiation Research</i> , <b>2014</b> , 182, 626-39	3.1	18
9	Microbeam-irradiated tumour tissue possesses a different infrared absorbance profile compared to broad beam and sham-irradiated tissue. <i>International Journal of Radiation Biology</i> , <b>2013</b> , 89, 79-87	2.9	9
8	Reference dosimetry at the Australian Synchrotron X imaging and medical beamline using free-air ionization chamber measurements and theoretical predictions of air kerma rate and half value layer. <i>Medical Physics</i> , <b>2013</b> , 40, 062103	4.4	25
7	Genome-wide transcription responses to synchrotron microbeam radiotherapy. <i>Radiation Research</i> , <b>2012</b> , 178, 249-59	3.1	27
6	In situ biological dose mapping estimates the radiation burden delivered to XparedXtissue between synchrotron X-ray microbeam radiotherapy tracks. <i>PLoS ONE</i> , <b>2012</b> , 7, e29853	3.7	22
5	DNA damage and repair kinetics after microbeam radiation therapy emulation in living cells using monoenergetic synchrotron X-ray microbeams. <i>Journal of Synchrotron Radiation</i> , <b>2011</b> , 18, 630-6	2.4	10
4	Biodosimetric quantification of short-term synchrotron microbeam versus broad-beam radiation damage to mouse skin using a dermatopathological scoring system. <i>British Journal of Radiology</i> , <b>2011</b> , 84, 833-42	3.4	30
3	Pre-treatment verification of intensity modulated radiation therapy plans using a commercial electronic portal dosimetry system. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2010</b> , 33, 51-7	1.9	7
2	Tumor cell response to synchrotron microbeam radiation therapy differs markedly from cells in normal tissues. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 77, 886-94	4	117
1	Memory and survival after microbeam radiation therapy. <i>European Journal of Radiology</i> , <b>2008</b> , 68, S142-6	4.7	48