

Kevin M Prise

List of Publications by Citations

Source: <https://exaly.com/author-pdf/543061/kevin-m-prise-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

296
papers

12,558
citations

62
h-index

100
g-index

342
ext. papers

14,118
ext. citations

3.7
avg, IF

6.39
L-index

#	Paper	IF	Citations
296	Radiation-induced bystander signalling in cancer therapy. <i>Nature Reviews Cancer</i> , 2009 , 9, 351-60	31.3	602
295	Studies of bystander effects in human fibroblasts using a charged particle microbeam. <i>International Journal of Radiation Biology</i> , 1998 , 74, 793-8	2.9	344
294	Cell-specific radiosensitization by gold nanoparticles at megavoltage radiation energies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 531-9	4	321
293	Physical basis and biological mechanisms of gold nanoparticle radiosensitization. <i>Nanoscale</i> , 2012 , 4, 4830-8	7.7	293
292	Biological consequences of nanoscale energy deposition near irradiated heavy atom nanoparticles. <i>Scientific Reports</i> , 2011 , 1, 18	4.9	286
291	New insights on cell death from radiation exposure. <i>Lancet Oncology</i> , 2005 , 6, 520-8	21.7	270
290	Gold nanoparticles for cancer radiotherapy: a review. <i>Cancer Nanotechnology</i> , 2016 , 7, 8	7.9	238
289	Targeted cytoplasmic irradiation induces bystander responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13495-500	11.5	234
288	A review of dsb induction data for varying quality radiations. <i>International Journal of Radiation Biology</i> , 1998 , 74, 173-84	2.9	187
287	Direct evidence for a bystander effect of ionizing radiation in primary human fibroblasts. <i>British Journal of Cancer</i> , 2001 , 84, 674-9	8.7	175
286	Role of TGF-beta1 and nitric oxide in the bystander response of irradiated glioma cells. <i>Oncogene</i> , 2008 , 27, 434-40	9.2	168
285	Nitric oxide-mediated signaling in the bystander response of individually targeted glioma cells. <i>Cancer Research</i> , 2003 , 63, 8437-42	10.1	166
284	Evaluation of cytotoxicity and radiation enhancement using 1.9 nm gold particles: potential application for cancer therapy. <i>Nanotechnology</i> , 2010 , 21, 295101	3.4	164
283	ATR-dependent radiation-induced gamma H2AX foci in bystander primary human astrocytes and glioma cells. <i>Oncogene</i> , 2007 , 26, 993-1002	9.2	163
282	A charged-particle microbeam: I. Development of an experimental system for targeting cells individually with counted particles. <i>International Journal of Radiation Biology</i> , 1997 , 72, 375-85	2.9	162
281	A review of studies of ionizing radiation-induced double-strand break clustering. <i>Radiation Research</i> , 2001 , 156, 572-6	3.1	156
280	Non-targeted effects of ionising radiation--implications for low dose risk. <i>Mutation Research - Reviews in Mutation Research</i> , 2013 , 752, 84-98	7	155

279	Nanosimetric effects of gold nanoparticles in megavoltage radiation therapy. <i>Radiotherapy and Oncology</i> , 2011 , 100, 412-6	5.3	144
278	Cytoplasmic irradiation induces mitochondrial-dependent 53BP1 protein relocalization in irradiated and bystander cells. <i>Cancer Research</i> , 2007 , 67, 5872-9	10.1	139
277	Relative biological effectiveness variation along monoenergetic and modulated Bragg peaks of a 62-MeV therapeutic proton beam: a preclinical assessment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 90, 27-35	4	136
276	Low-dose binary behavior of bystander cell killing after microbeam irradiation of a single cell with focused c(k) x rays. <i>Radiation Research</i> , 2005 , 163, 332-6	3.1	131
275	The use of theranostic gadolinium-based nanoprobe to improve radiotherapy efficacy. <i>British Journal of Radiology</i> , 2014 , 87, 20140134	3.4	130
274	Cell type-dependent uptake, localization, and cytotoxicity of 1.9 nm gold nanoparticles. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2673-85	7.3	130
273	Inactivation of V79 cells by low-energy protons, deuterons and helium-3 ions. <i>International Journal of Radiation Biology</i> , 1996 , 69, 729-38	2.9	127
272	DNA double-strand break distributions in X-ray and alpha-particle irradiated V79 cells: evidence for non-random breakage. <i>International Journal of Radiation Biology</i> , 1997 , 71, 347-63	2.9	124
271	Biological mechanisms of gold nanoparticle radiosensitization. <i>Cancer Nanotechnology</i> , 2017 , 8, 2	7.9	117
270	Low-dose studies of bystander cell killing with targeted soft X rays. <i>Radiation Research</i> , 2003 , 160, 505-11	3.1	117
269	A review of the bystander effect and its implications for low-dose exposure. <i>Radiation Protection Dosimetry</i> , 2003 , 104, 347-55	0.9	109
268	Use of the H2AX assay to investigate DNA repair dynamics following multiple radiation exposures. <i>PLoS ONE</i> , 2013 , 8, e79541	3.7	109
267	A charged-particle microbeam: II. A single-particle micro-collimation and detection system. <i>International Journal of Radiation Biology</i> , 1997 , 72, 387-95	2.9	108
266	Histone H2AX phosphorylation as a molecular pharmacological marker for DNA interstrand crosslink cancer chemotherapy. <i>Biochemical Pharmacology</i> , 2008 , 76, 19-27	6	107
265	Bystander-induced apoptosis and premature differentiation in primary urothelial explants after charged particle microbeam irradiation. <i>Radiation Protection Dosimetry</i> , 2002 , 99, 249-51	0.9	101
264	Calcium fluxes modulate the radiation-induced bystander responses in targeted glioma and fibroblast cells. <i>Radiation Research</i> , 2006 , 166, 479-87	3.1	99
263	Imaging and radiation effects of gold nanoparticles in tumour cells. <i>Scientific Reports</i> , 2016 , 6, 19442	4.9	98
262	ATM acts downstream of ATR in the DNA damage response signaling of bystander cells. <i>Cancer Research</i> , 2008 , 68, 7059-65	10.1	98

261	A proliferation-dependent bystander effect in primary porcine and human urothelial explants in response to targeted irradiation. <i>British Journal of Cancer</i> , 2003 , 88, 767-74	8.7	95
260	Evidence for the direct binding of phosphorylated p53 to sites of DNA breaks in vivo. <i>Cancer Research</i> , 2005 , 65, 10810-21	10.1	90
259	Bystander-induced differentiation: a major response to targeted irradiation of a urothelial explant model. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006 , 597, 43-9	3.3	83
258	Bystander signaling between glioma cells and fibroblasts targeted with counted particles. <i>International Journal of Cancer</i> , 2005 , 116, 45-51	7.5	83
257	A focused ultrasoft x-ray microbeam for targeting cells individually with submicrometer accuracy. <i>Radiation Research</i> , 2001 , 156, 796-804	3.1	83
256	Biological effectiveness on live cells of laser driven protons at dose rates exceeding 109 Gy/s. <i>AIP Advances</i> , 2012 , 2, 011209	1.5	82
255	The irradiation of V79 mammalian cells by protons with energies below 2 MeV. Part I: Experimental arrangement and measurements of cell survival. <i>International Journal of Radiation Biology</i> , 1989 , 56, 221-37	2.9	82
254	Gene expression profiling of patient-matched initial and recurrent glioblastoma. <i>Neuro-Oncology</i> , 2018 , 20, i15-i15	1	78
253	BTC1.04 Genomic profiling of IDH-wildtype and IDH-mutant initial and matched recurrent glioblastomas reveals clinically actionable mutations (e.g. BRCA1/2) and resistance signatures. <i>Neuro-Oncology</i> , 2018 , 20, iii215-iii216	1	78
252	EXPLORING ALIGNMENT-FREE SEQUENCE COMPARISON METHODS TO ELUCIDATE PATTERNS OF EVOLUTION AND HETEROGENEITY IN LONGITUDINAL GLIOMA PATIENT COHORTS. <i>Neuro-Oncology</i> , 2018 , 20, v348-v348	1	78
251	P04.46 Variable RNA sequencing depth impacts gene signatures and target compound robustness - case study examining brain tumour (glioma) disease progression. <i>Neuro-Oncology</i> , 2018 , 20, iii289-iii289 ¹	1	78
250	Measurement of DNA damage by electrons with energies between 25 and 4000 eV. <i>International Journal of Radiation Biology</i> , 1993 , 64, 651-8	2.9	77
249	Bystander responses induced by low LET radiation. <i>Oncogene</i> , 2003 , 22, 7043-9	9.2	76
248	Cell killing and DNA damage in Chinese hamster V79 cells treated with hydrogen peroxide. <i>International Journal of Radiation Biology</i> , 1989 , 55, 583-92	2.9	76
247	A study of endonuclease III-sensitive sites in irradiated DNA: detection of alpha-particle-induced oxidative damage. <i>Carcinogenesis</i> , 1999 , 20, 905-9	4.6	75
246	Delayed lethality, apoptosis and micronucleus formation in human fibroblasts irradiated with X-rays or alpha-particles. <i>International Journal of Radiation Biology</i> , 1999 , 75, 985-93	2.9	75
245	Out-of-field cell survival following exposure to intensity-modulated radiation fields. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 1516-22	4	74
244	BRCA1 deficiency exacerbates estrogen-induced DNA damage and genomic instability. <i>Cancer Research</i> , 2014 , 74, 2773-2784	10.1	69

243	Signaling factors for irradiated glioma cells induced bystander responses in fibroblasts. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 638, 139-45	3.3	68
242	The role of mitochondrial function in gold nanoparticle mediated radiosensitisation. <i>Cancer Nanotechnology</i> , 2014 , 5, 5	7.9	67
241	Low-dose hypersensitivity in Chinese hamster V79 cells targeted with counted protons using a charged-particle microbeam. <i>Radiation Research</i> , 2001 , 156, 526-34	3.1	66
240	The irradiation of V79 mammalian cells by protons with energies below 2 MeV. Part II. Measurement of oxygen enhancement ratios and DNA damage. <i>International Journal of Radiation Biology</i> , 1990 , 58, 261-77	2.9	66
239	Long-term genomic instability in human lymphocytes induced by single-particle irradiation. <i>Radiation Research</i> , 2001 , 155, 122-6	3.1	65
238	High dose bystander effects in spatially fractionated radiation therapy. <i>Cancer Letters</i> , 2015 , 356, 52-7	9.9	64
237	Optimising element choice for nanoparticle radiosensitisers. <i>Nanoscale</i> , 2016 , 8, 581-9	7.7	64
236	Apoptosis is initiated in human keratinocytes exposed to signalling factors from microbeam irradiated cells. <i>International Journal of Radiation Biology</i> , 2006 , 82, 393-9	2.9	63
235	Evidence for induction of DNA double strand breaks in the bystander response to targeted soft X-rays in CHO cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2004 , 556, 209-15	3.3	63
234	ESTRO ACROP: Technology for precision small animal radiotherapy research: Optimal use and challenges. <i>Radiotherapy and Oncology</i> , 2018 , 126, 471-478	5.3	62
233	Radiation effects on the cytoskeleton of endothelial cells and endothelial monolayer permeability. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 69, 1553-62	4	62
232	Non-targeted effects of radiation: bystander responses in cell and tissue models. <i>Radiation Protection Dosimetry</i> , 2002 , 99, 223-6	0.9	62
231	Gold nanoparticle cellular uptake, toxicity and radiosensitisation in hypoxic conditions. <i>Radiotherapy and Oncology</i> , 2014 , 110, 342-7	5.3	60
230	hSSB1 rapidly binds at the sites of DNA double-strand breaks and is required for the efficient recruitment of the MRN complex. <i>Nucleic Acids Research</i> , 2011 , 39, 1692-702	20.1	60
229	AGuIX from bench to bedside-Transfer of an ultrasmall theranostic gadolinium-based nanoparticle to clinical medicine. <i>British Journal of Radiology</i> , 2019 , 92, 20180365	3.4	60
228	Effect of radiation quality on lesion complexity in cellular DNA. <i>International Journal of Radiation Biology</i> , 1994 , 66, 537-42	2.9	59
227	DNA double strand break repair: a radiation perspective. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 2458-72		57
226	Radiation-induced intercellular signaling mediated by cytochrome-c via a p53-dependent pathway in hepatoma cells. <i>Oncogene</i> , 2011 , 30, 1947-55	9.2	56

225	Use of radiation quality as a probe for DNA lesion complexity. <i>International Journal of Radiation Biology</i> , 1994 , 65, 43-8	2.9	56
224	Variations in the Processing of DNA Double-Strand Breaks Along 60-MeV Therapeutic Proton Beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 86-94	4	53
223	New advances in radiation biology. <i>Occupational Medicine</i> , 2006 , 56, 156-61	2.1	50
222	Evidence for complexity at the nanometer scale of radiation-induced DNA DSBs as a determinant of rejoining kinetics. <i>Radiation Research</i> , 2005 , 164, 73-85	3.1	50
221	Mechanistic Modelling of DNA Repair and Cellular Survival Following Radiation-Induced DNA Damage. <i>Scientific Reports</i> , 2016 , 6, 33290	4.9	50
220	Investigating the Implications of a Variable RBE on Proton Dose Fractionation Across a Clinical Pencil Beam Scanned Spread-Out Bragg Peak. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 70-77	4	49
219	New molecular targets in radiotherapy: DNA damage signalling and repair in targeted and non-targeted cells. <i>European Journal of Pharmacology</i> , 2009 , 625, 151-5	5.3	48
218	Critical energies for SSB and DSB induction in plasmid DNA by low-energy photons: action spectra for strand-break induction in plasmid DNA irradiated in vacuum. <i>International Journal of Radiation Biology</i> , 2000 , 76, 881-90	2.9	48
217	The relationship between radiation-induced DNA double-strand breaks and cell kill in hamster V79 fibroblasts irradiated with 250 kVp X-rays, 2.3 MeV neutrons or ²³⁸ Pu alpha-particles. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1987 , 52, 893-902		48
216	A kinetic-based model of radiation-induced intercellular signalling. <i>PLoS ONE</i> , 2013 , 8, e54526	3.7	46
215	Roadmap for metal nanoparticles in radiation therapy: current status, translational challenges, and future directions. <i>Physics in Medicine and Biology</i> , 2020 , 65, 21RM02	3.8	45
214	Bystander effects induced by diffusing mediators after photodynamic stress. <i>Radiation Research</i> , 2009 , 172, 74-81	3.1	45
213	Effective suppression of bystander effects by DMSO treatment of irradiated CHO cells. <i>Journal of Radiation Research</i> , 2007 , 48, 327-33	2.4	45
212	Local DNA damage by proton microbeam irradiation induces poly(ADP-ribose) synthesis in mammalian cells. <i>Mutagenesis</i> , 2003 , 18, 411-6	2.8	45
211	Mechanistic Rationale to Target PTEN-Deficient Tumor Cells with Inhibitors of the DNA Damage Response Kinase ATM. <i>Cancer Research</i> , 2015 , 75, 2159-65	10.1	44
210	Energy Dependence of Gold Nanoparticle Radiosensitization in Plasmid DNA. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20160-20167	3.8	43
209	DNA damage induction in dry and hydrated DNA by synchrotron radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, 2753-2761	1.3	43
208	Bystander signalling: exploring clinical relevance through new approaches and new models. <i>Clinical Oncology</i> , 2013 , 25, 586-92	2.8	42

207	Genomic instability in human lymphocytes irradiated with individual charged particles: involvement of tumor necrosis factor alpha in irradiated cells but not bystander cells. <i>Radiation Research</i> , 2005 , 163, 183-90	3.1	42
206	Rates for repair of pBR 322 DNA radicals by thiols as measured by the gas explosion technique: evidence that counter-ion condensation and co-ion depletion are significant at physiological ionic strength. <i>International Journal of Radiation Biology</i> , 1991 , 59, 901-17	2.9	42
205	Small animal image-guided radiotherapy: status, considerations and potential for translational impact. <i>British Journal of Radiology</i> , 2015 , 88, 20140634	3.4	41
204	What is the Role of the Bystander Response in Radionuclide Therapies?. <i>Frontiers in Oncology</i> , 2013 , 3, 215	5.3	40
203	Genomic Instability in Chinese Hamster Cells after Exposure to X Rays or Alpha Particles of Different Mean Linear Energy Transfer. <i>Radiation Research</i> , 1997 , 147, 22	3.1	39
202	Gamma ray-induced bystander effect in tumour glioblastoma cells: a specific study on cell survival, cytokine release and cytokine receptors. <i>Radiation Protection Dosimetry</i> , 2006 , 122, 271-4	0.9	39
201	A model for radiation-induced bystander effects, with allowance for spatial position and the effects of cell turnover. <i>Journal of Theoretical Biology</i> , 2005 , 232, 329-38	2.3	39
200	DNA damage responses following exposure to modulated radiation fields. <i>PLoS ONE</i> , 2012 , 7, e43326	3.7	38
199	Deficiencies of double-strand break repair factors and effects on mutagenesis in directly gamma-irradiated and medium-mediated bystander human lymphoblastoid cells. <i>Radiation Research</i> , 2008 , 169, 197-206	3.1	37
198	Concise review: stem cell effects in radiation risk. <i>Stem Cells</i> , 2011 , 29, 1315-21	5.8	36
197	Dose, dose-rate and field size effects on cell survival following exposure to non-uniform radiation fields. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3197-206	3.8	35
196	What role for DNA damage and repair in the bystander response?. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006 , 597, 1-4	3.3	35
195	Microsatellite analysis for determination of the mutagenicity of extremely low-frequency electromagnetic fields and ionising radiation in vitro. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007 , 626, 34-41	3	35
194	The Radiobiology of Proton Therapy: Challenges and Opportunities Around Relative Biological Effectiveness. <i>Clinical Oncology</i> , 2018 , 30, 285-292	2.8	34
193	Immune modulation in advanced radiotherapies: Targeting out-of-field effects. <i>Cancer Letters</i> , 2015 , 368, 246-51	9.9	34
192	Microbeam studies of the bystander response. <i>Journal of Radiation Research</i> , 2009 , 50 Suppl A, A1-6	2.4	34
191	A mechanistic study of gold nanoparticle radiosensitisation using targeted microbeam irradiation. <i>Scientific Reports</i> , 2017 , 7, 44752	4.9	33
190	BRCA1, FANCD2 and Chk1 are potential molecular targets for the modulation of a radiation-induced DNA damage response in bystander cells. <i>Cancer Letters</i> , 2015 , 356, 454-61	9.9	33

189	Preclinical evaluation of gold-DTTPA nanoparticles as theranostic agents in prostate cancer radiotherapy. <i>Nanomedicine</i> , 2016 , 11, 2035-47	5.6	33
188	A general mechanistic model enables predictions of the biological effectiveness of different qualities of radiation. <i>Scientific Reports</i> , 2017 , 7, 10790	4.9	32
187	Assessing software upgrades, plan properties and patient geometry using intensity modulated radiation therapy (IMRT) complexity metrics. <i>Medical Physics</i> , 2011 , 38, 2027-34	4.4	32
186	Histone H2AX phosphorylation in normal human cells irradiated with focused ultrasoft X rays: evidence for chromatin movement during repair. <i>Radiation Research</i> , 2006 , 166, 31-8	3.1	32
185	Evidence for Induction of DNA Double-Strand Breaks at Paired Radical Sites. <i>Radiation Research</i> , 1993 , 134, 102	3.1	32
184	A New Standard DNA Damage (SDD) Data Format. <i>Radiation Research</i> , 2019 , 191, 76-92	3.1	32
183	A computational model of cellular response to modulated radiation fields. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, 250-6	4	31
182	Measurement of DNA Damage and Cell Killing in Chinese Hamster V79 Cells Irradiated with Aluminum Characteristic Ultrasoft X Rays. <i>Radiation Research</i> , 1989 , 117, 489	3.1	31
181	Quantification of radiation induced DNA double-strand breaks in human fibroblasts by PFGE: testing the applicability of random breakage models. <i>International Journal of Radiation Biology</i> , 2002 , 78, 375-88	2.9	30
180	The role of higher-order chromatin structure in the yield and distribution of DNA double-strand breaks in cells irradiated with X-rays or alpha-particles. <i>International Journal of Radiation Biology</i> , 2000 , 76, 1085-93	2.9	30
179	Mechanistic Modelling of Radiation Responses. <i>Cancers</i> , 2019 , 11,	6.6	29
178	A scanning focussed vertical ion nanobeam: A new UK Facility for cell irradiation and analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 260, 97-100	1.2	29
177	A comparison of the chemical repair rates of free radical precursors of DNA damage and cell killing in Chinese hamster V79 cells. <i>International Journal of Radiation Biology</i> , 1992 , 61, 721-8	2.9	29
176	LET-weighted doses effectively reduce biological variability in proton radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018 , 63, 225009	3.8	29
175	Multidisciplinary European Low Dose Initiative (MELODI): strategic research agenda for low dose radiation risk research. <i>Radiation and Environmental Biophysics</i> , 2018 , 57, 5-15	2	28
174	Ionizing radiation-induced bystander mutagenesis and adaptation: quantitative and temporal aspects. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009 , 671, 20-5	3.3	28
173	The radiobiology of laser-driven particle beams: focus on sub-lethal responses of normal human cells. <i>Journal of Instrumentation</i> , 2017 , 12, C03084-C03084	1	27
172	Validation of a Metastatic Assay using biopsies to improve risk stratification in patients with prostate cancer treated with radical radiation therapy. <i>Annals of Oncology</i> , 2018 , 29, 215-222	10.3	27

171	Investigating the cellular effects of isolated radiation tracks using microbeam techniques. <i>Advances in Space Research</i> , 2002 , 30, 871-6	2.4	27
170	An arrangement for irradiating cultured mammalian cells with aluminium characteristic ultrasoft x-rays. <i>Physics in Medicine and Biology</i> , 1987 , 32, 1615-26	3.8	27
169	An in vitro study of the radiobiological effects of flattening filter free radiotherapy treatments. <i>Physics in Medicine and Biology</i> , 2013 , 58, N83-94	3.8	26
168	Protein disulphide isomerase as a target for nanoparticle-mediated sensitisation of cancer cells to radiation. <i>Nanotechnology</i> , 2016 , 27, 215101	3.4	26
167	Microbeams in radiation biology: review and critical comparison. <i>Radiation Protection Dosimetry</i> , 2011 , 143, 335-9	0.9	25
166	Estrogen enhanced cell-cell signalling in breast cancer cells exposed to targeted irradiation. <i>BMC Cancer</i> , 2008 , 8, 184	4.8	25
165	PTEN deficiency promotes macrophage infiltration and hypersensitivity of prostate cancer to IAP antagonist/radiation combination therapy. <i>Oncotarget</i> , 2016 , 7, 7885-98	3.3	25
164	Investigation of dose-rate effects and cell-cycle distribution under protracted exposure to ionizing radiation for various dose-rates. <i>Scientific Reports</i> , 2018 , 8, 8287	4.9	25
163	DNA DSB Repair Dynamics following Irradiation with Laser-Driven Protons at Ultra-High Dose Rates. <i>Scientific Reports</i> , 2019 , 9, 4471	4.9	24
162	Cell survival responses after exposure to modulated radiation fields. <i>Radiation Research</i> , 2012 , 177, 44-53	3.1	24
161	A study of the biological effects of modulated 6 MV radiation fields. <i>Physics in Medicine and Biology</i> , 2010 , 55, 1607-18	3.8	24
160	The design and application of ion microbeams for irradiating living cells and tissues. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 210, 302-307	1.2	24
159	The impact of microbeams in radiation biology. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 181, 426-430	1.2	24
158	Combined analysis of gamma-H2AX/53BP1 foci and caspase activation in lymphocyte subsets detects recent and more remote radiation exposures. <i>Radiation Research</i> , 2013 , 180, 603-9	3.1	23
157	DNA and chromosomal damage in response to intermittent extremely low-frequency magnetic fields. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009 , 672, 82-9	3	23
156	Genomic instability after targeted irradiation of human lymphocytes: evidence for inter-individual differences under bystander conditions. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2010 , 688, 91-4	3.3	23
155	Radiation induced bystander signals are independent of DNA damage and DNA repair capacity of the irradiated cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2007 , 619, 134-8	3.3	23
154	Radiation-induced bystander effects. Mechanisms, biological implications, and current investigations at the Leipzig LIPSION facility. <i>Strahlentherapie Und Onkologie</i> , 2003 , 179, 69-77	4.3	23

153	Critical energies for ssb and dsb induction in plasmid DNA by vacuum-UV photons: an arrangement for irradiating dry or hydrated DNA with monochromatic photons. <i>International Journal of Radiation Biology</i> , 2000 , 76, 763-71	2.9	23
152	Targeted Alpha Therapy: Current Clinical Applications. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2020 , 35, 404-417	3.9	22
151	Low dose effects of ionizing radiation on normal tissue stem cells. <i>Mutation Research - Reviews in Mutation Research</i> , 2014 , 761, 6-14	7	22
150	Two approaches for irradiating cells individually: a charged-particle microbeam and a soft X-ray microprobe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 130, 270-274	1.2	22
149	A multiple-radical model for radiation action on DNA and the dependence of OER on LET. <i>International Journal of Radiation Biology</i> , 1996 , 69, 351-8	2.9	22
148	Identification of RBCK1 as a novel regulator of FKBPL: implications for tumor growth and response to tamoxifen. <i>Oncogene</i> , 2014 , 33, 3441-50	9.2	21
147	Down-regulation of PERK enhances resistance to ionizing radiation. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 441, 31-5	3.4	21
146	In-vitro investigation of out-of-field cell survival following the delivery of conformal, intensity-modulated radiation therapy (IMRT) and volumetric modulated arc therapy (VMAT) plans. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6635-45	3.8	21
145	Radiation microbeams as spatial and temporal probes of subcellular and tissue response. <i>Mutation Research - Reviews in Mutation Research</i> , 2010 , 704, 68-77	7	21
144	Role of charge in the radioprotection of E. coli by thiols. <i>International Journal of Radiation Biology</i> , 1995 , 67, 393-401	2.9	21
143	Small field dosimetry for the small animal radiotherapy research platform (SARRP). <i>Radiation Oncology</i> , 2017 , 12, 204	4.2	20
142	Computed Tomography-based Radiomics for Risk Stratification in Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 105, 448-456	4	20
141	Inhibition of ataxia telangiectasia related-3 (ATR) improves therapeutic index in preclinical models of non-small cell lung cancer (NSCLC) radiotherapy. <i>Radiotherapy and Oncology</i> , 2017 , 124, 475-481	5.3	20
140	Real-time imaging of novel spatial and temporal responses to photodynamic stress. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 283-90	7.8	20
139	A Monte Carlo model of DNA double-strand break clustering and rejoining kinetics for the analysis of pulsed-field gel electrophoresis data. <i>Radiation Research</i> , 2004 , 162, 453-63	3.1	20
138	Single ion actions: the induction of micronuclei in V79 cells exposed to individual protons. <i>Advances in Space Research</i> , 2000 , 25, 2095-101	2.4	20
137	Antiproton induced DNA damage: proton like in flight, carbon-ion like near rest. <i>Scientific Reports</i> , 2013 , 3, 1770	4.9	19
136	Temporal characterization and in vitro comparison of cell survival following the delivery of 3D-conformal, intensity-modulated radiation therapy (IMRT) and volumetric modulated arc therapy (VMAT). <i>Physics in Medicine and Biology</i> , 2011 , 56, 2445-57	3.8	19

135	The production of single strand and double strand breaks in DNA in aqueous solution by vacuum UV photons below 10 eV. <i>Radiation Protection Dosimetry</i> , 2002 , 99, 147-9	0.9	18
134	Quantification of DNA damage by PFGE: development of an analytical approach to correct for the background distribution. <i>International Journal of Radiation Biology</i> , 2000 , 76, 741-8	2.9	18
133	Implications of intercellular signaling for radiation therapy: a theoretical dose-planning study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 1148-54	4	17
132	Dose response and kinetics of foci disappearance following exposure to high- and low-LET ionizing radiation. <i>International Journal of Radiation Biology</i> , 2009 , 85, 872-882	2.9	17
131	The application of charged-particle microbeams in radiobiology. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 188, 49-54	1.2	17
130	Action spectra for single- and double-strand break induction in plasmid DNA: studies using synchrotron radiation. <i>International Journal of Radiation Biology</i> , 1994 , 66, 569-72	2.9	17
129	FLIP: A Targetable Mediator of Resistance to Radiation in Non-Small Cell Lung Cancer. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 2432-2441	6.1	17
128	Comment on Qmplications on clinical scenario of gold nanoparticle radiosensitization in regard to photon energy, nanoparticle size, concentration and locationQ <i>Physics in Medicine and Biology</i> , 2012 , 57, 287-90; discussion 291-5	3.8	16
127	Using the Proton Energy Spectrum and Microdosimetry to Model Proton Relative Biological Effectiveness. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 316-324	4	15
126	Microbeam evolution: from single cell irradiation to pre-clinical studies. <i>International Journal of Radiation Biology</i> , 2018 , 94, 708-718	2.9	15
125	Low-dose radiation-induced risk in spermatogenesis. <i>International Journal of Radiation Biology</i> , 2017 , 93, 1291-1298	2.9	15
124	Pro-inflammatory Signaling in a 3D Organotypic Skin Model after Low LET Irradiation-NF-B, COX-2 Activation, and Impact on Cell Differentiation. <i>Frontiers in Immunology</i> , 2017 , 8, 82	8.4	15
123	New insights into the cellular response to radiation using microbeams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 231, 189-194	1.2	15
122	Double strand break rejoining after irradiation of human fibroblasts with X rays or alpha particles: PFGE studies and numerical models. <i>Radiation Protection Dosimetry</i> , 2002 , 99, 133-6	0.9	15
121	Further Evidence for Double-Strand Breaks Originating from a Paired Radical Precursor from Studies of Oxygen Fixation Processes. <i>Radiation Research</i> , 1999 , 151, 635	3.1	15
120	Radiation-induced genomic instability in repair deficient mutants of Chinese hamster cells. <i>International Journal of Radiation Biology</i> , 2005 , 81, 929-36	2.9	14
119	The role of non-protein sulphhydryls in determining the chemical repair rates of free radical precursors of DNA damage and cell killing in Chinese hamster V79 cells. <i>International Journal of Radiation Biology</i> , 1992 , 62, 297-306	2.9	14
118	Cellular signalling effects in high precision radiotherapy. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4551-64	6.8	13

117	Alpha particles induce pan-nuclear phosphorylation of H2AX in primary human lymphocytes mediated through ATM. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 2199-206	4.9	13
116	Application of an Ex Vivo Tissue Model to Investigate Radiobiological Effects on Spermatogenesis. <i>Radiation Research</i> , 2018 , 189, 661-667	3.1	13
115	KNK437, abrogates hypoxia-induced radioresistance by dual targeting of the AKT and HIF-1 α survival pathways. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 421, 538-43	3.4	13
114	Double strand break formation as a response to X-ray and targeted proton-irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 260, 159-163	1.2	13
113	Radioprotection of targeted and bystander cells by methylproamine. <i>Strahlentherapie Und Onkologie</i> , 2015 , 191, 248-55	4.3	12
112	Investigating the potential impact of four-dimensional computed tomography (4DCT) on toxicity, outcomes and dose escalation for radical lung cancer radiotherapy. <i>Clinical Oncology</i> , 2014 , 26, 142-50	2.8	12
111	Relative biological effectiveness (RBE) and out-of-field cell survival responses to passive scattering and pencil beam scanning proton beam deliveries. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6671-80	3.8	12
110	Evidence for a hypoxic fixation reaction leading to the induction of ssb and dsb in irradiated DNA. <i>International Journal of Radiation Biology</i> , 1998 , 74, 53-9	2.9	12
109	The role of PTEN as a cancer biomarker. <i>Oncoscience</i> , 2016 , 3, 54-5	0.8	12
108	Akt/mTOR mediated induction of bystander effect signaling in a nucleus independent manner in irradiated human lung adenocarcinoma epithelial cells. <i>Oncotarget</i> , 2017 , 8, 18010-18020	3.3	12
107	Modelling responses to spatially fractionated radiation fields using preclinical image-guided radiotherapy. <i>British Journal of Radiology</i> , 2017 , 90, 20160485	3.4	11
106	Upgrading of the Gray Laboratory soft X ray microprobe and V79 survival measurements following irradiation of one or all cells with a CK X ray beam of different size. <i>Radiation Protection Dosimetry</i> , 2002 , 99, 287-8	0.9	11
105	Mechanisms of DNA damage response to targeted irradiation in organotypic 3D skin cultures. <i>PLoS ONE</i> , 2014 , 9, e86092	3.7	11
104	Radiobiology Experiments With Ultra-high Dose Rate Laser-Driven Protons: Methodology and State-of-the-Art. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	11
103	High-precision microbeam radiotherapy reveals testicular tissue-sparing effects for male fertility preservation. <i>Scientific Reports</i> , 2019 , 9, 12618	4.9	11
102	Preclinical models of radiation-induced lung damage: challenges and opportunities for small animal radiotherapy. <i>British Journal of Radiology</i> , 2019 , 92, 20180473	3.4	10
101	Assessment of DNA double-strand breaks induced by intravascular iodinated contrast media following in vitro irradiation and in vivo, during paediatric cardiac catheterization. <i>Contrast Media and Molecular Imaging</i> , 2016 , 11, 122-9	3.2	10
100	The use of microbeams to investigate radiation damage in living cells. <i>Applied Radiation and Isotopes</i> , 2009 , 67, 436-9	1.7	10

99	The use of radiation microbeams to investigate the bystander effect in cells and tissues. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 580, 446-450	1.2	10
98	Radiation-induced bystander and adaptive responses in cell and tissue models. <i>Dose-Response</i> , 2006 , 4, 263-76	2.3	10
97	Non-linear dose-effect curve for DNA double-strand breaks by low LET radiation: the effect of eluting buffer composition on the measurement of breaks by the filter elution technique. <i>International Journal of Radiation Biology</i> , 1989 , 56, 943-50	2.9	10
96	History and current perspectives on the biological effects of high-dose spatial fractionation and high dose-rate approaches: GRID, Microbeam & FLASH radiotherapy. <i>British Journal of Radiology</i> , 2020 , 93, 20200217	3.4	10
95	Preclinical Evaluation of Dose-Volume Effects and Lung Toxicity Occurring In and Out-of-Field. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 1231-1240	4	9
94	Radiobiology of the FLASH effect. <i>Medical Physics</i> , 2021 ,	4.4	9
93	Mitochondria as a target for radiosensitisation by gold nanoparticles. <i>Journal of Physics: Conference Series</i> , 2017 , 777, 012008	0.3	8
92	Intensity Modulated Radiation Fields Induce Protective Effects and Reduce Importance of Dose-Rate Effects. <i>Scientific Reports</i> , 2019 , 9, 9483	4.9	8
91	State of the art in research into the risk of low dose radiation exposure--findings of the fourth MELODI workshop. <i>Journal of Radiological Protection</i> , 2013 , 33, 589-603	1.2	8
90	Dose response and kinetics of foci disappearance following exposure to high- and low-LET ionizing radiation. <i>International Journal of Radiation Biology</i> , 2009 , 85, 872-882	2.9	8
89	Spatiotemporal investigations of DNA damage repair using microbeams. <i>Radiation Protection Dosimetry</i> , 2011 , 143, 340-3	0.9	8
88	The relationship between the RBE of alpha particles and the radiosensitivity of different mutations of Chinese hamster cells. <i>Radiation and Environmental Biophysics</i> , 2001 , 40, 243-8	2	8
87	The Roles of HIF-1 α in Radiosensitivity and Radiation-Induced Bystander Effects Under Hypoxia. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 637454	5.7	8
86	An overview of current practice in external beam radiation oncology with consideration to potential benefits and challenges for nanotechnology. <i>Cancer Nanotechnology</i> , 2017 , 8, 3	7.9	7
85	Mechanistic Modeling of Radium-223 Treatment of Bone Metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 1221-1230	4	7
84	Precision Radiotherapy and Radiation Risk Assessment: How Do We Overcome Radiogenomic Diversity?. <i>Tohoku Journal of Experimental Medicine</i> , 2019 , 247, 223-235	2.4	7
83	Time and Cell Type Dependency of Survival Responses in Co-cultured Tumor and Fibroblast Cells after Exposure to Modulated Radiation Fields. <i>Radiation Research</i> , 2015 , 183, 656-64	3.1	7
82	The Impact of Hypoxia on Out-of-Field Cell Survival after Exposure to Modulated Radiation Fields. <i>Radiation Research</i> , 2017 , 188, 636-644	3.1	7

81	An improved method for the treatment of data from DNA strand break measurements using filter elution techniques with an internal standard. <i>International Journal of Radiation Biology</i> , 1989 , 55, 323-30 ²⁻⁹	7
80	Measurement of DNA damage and cell killing in Chinese hamster V79 cells irradiated with aluminum characteristic ultrasoft X rays. <i>Radiation Research</i> , 1989 , 117, 489-99	3.1 7
79	Time-resolved dosimetric verification of respiratory-gated radiotherapy exposures using a high-resolution 2D ionisation chamber array. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5529-46	3.8 7
78	Non-uniform radiation-induced biological responses at the tissue level involved in the health risk of environmental radiation: a radiobiological hypothesis. <i>Environmental Health</i> , 2018 , 17, 93	6 7
77	Dose response and kinetics of foci disappearance following exposure to high- and low-LET ionizing radiation. <i>International Journal of Radiation Biology</i> , 2009 , 85, 872-82	2.9 7
76	Impact of fractionation on out-of-field survival and DNA damage responses following exposure to intensity modulated radiation fields. <i>Physics in Medicine and Biology</i> , 2016 , 61, 515-26	3.8 6
75	Acute radiation impacts contractility of guinea-pig bladder strips affecting mucosal-detrusor interactions. <i>PLoS ONE</i> , 2018 , 13, e0193923	3.7 6
74	Inverse planned constant dose rate volumetric modulated arc therapy (VMAT) as an efficient alternative to five-field intensity modulated radiation therapy (IMRT) for prostate. <i>Journal of Radiotherapy in Practice</i> , 2014 , 13, 68-78	0.4 6
73	X-ray Microbeams for Radiobiological Studies: Current Status and Future Challenges. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2010 , 6, 207-211	6
72	Impact of superparamagnetic iron oxide nanoparticles on in vitro and in vivo radiosensitisation of cancer cells. <i>Radiation Oncology</i> , 2021 , 16, 104	4.2 6
71	Recommendations for clinical translation of nanoparticle-enhanced radiotherapy. <i>British Journal of Radiology</i> , 2018 , 91, 20180325	3.4 6
70	Conventional in vivo irradiation procedures are insufficient to accurately determine tumor responses to non-uniform radiation fields. <i>International Journal of Radiation Biology</i> , 2015 , 91, 257-61	2.9 5
69	Increased susceptibility to delayed genetic effects of low dose X-irradiation in DNA repair deficient cells. <i>International Journal of Radiation Biology</i> , 2013 , 89, 295-300	2.9 5
68	Differential modulation of a radiation-induced bystander effect in glioblastoma cells by pifithrin- α and wortmannin. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 627-631	1.2 5
67	A comparison of the radiosensitivity of relaxed and supercoiled plasmid DNA. <i>International Journal of Radiation Biology</i> , 1999 , 75, 83-90	2.9 5
66	Increased protein ADPribosylation in HeLa cells exposed to the anti-cancer drug methotrexate. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986 , 887, 13-22	4.9 5
65	LhARA: The Laser-hybrid Accelerator for Radiobiological Applications. <i>Frontiers in Physics</i> , 2020 , 8,	3.9 5
64	Fiducial markers visibility and artefacts in prostate cancer radiotherapy multi-modality imaging. <i>Radiation Oncology</i> , 2019 , 14, 237	4.2 5

63	Radiobiological Implications of Fukushima Nuclear Accident for Personalized Medical Approach. <i>Tohoku Journal of Experimental Medicine</i> , 2017 , 242, 77-81	2.4	4
62	Investigation into the radiobiological consequences of pre-treatment verification imaging with megavoltage X-rays in radiotherapy. <i>British Journal of Radiology</i> , 2014 , 87, 20130781	3.4	4
61	Investigating the influence of respiratory motion on the radiation induced bystander effect in modulated radiotherapy. <i>Physics in Medicine and Biology</i> , 2013 , 58, 8311-22	3.8	4
60	Evidence for induction of DNA double-strand breaks at paired radical sites. <i>Radiation Research</i> , 1993 , 134, 102-6	3.1	4
59	Dual effects of radiation bystander signaling in urothelial cancer: purinergic-activation of apoptosis attenuates survival of urothelial cancer and normal urothelial cells. <i>Oncotarget</i> , 2017 , 8, 97331-97343	3.3	4
58	Radical Multiplicity in Radiation-Induced DNA Strand Breaks: Implications for their Chemical Modification 1991 , 333-346		4
57	A Mechanistic DNA Repair and Survival Model (Medras): Applications to Intrinsic Radiosensitivity, Relative Biological Effectiveness and Dose-Rate. <i>Frontiers in Oncology</i> , 2021 , 11, 689112	5.3	4
56	Robustness of differential gene expression analysis of RNA-seq. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 3470-3481	6.8	4
55	Modulating the unfolded protein response with ONC201 to impact on radiation response in prostate cancer cells. <i>Scientific Reports</i> , 2021 , 11, 4252	4.9	4
54	Prostate cancer treated with brachytherapy; an exploratory study of dose-dependent biomarkers and quality of life. <i>Radiation Oncology</i> , 2017 , 12, 53	4.2	3
53	The Tissue-Sparing Effect of Spatially Fractionated X-rays for Maintaining Spermatogenesis: A Radiobiological Approach for the Preservation of Male Fertility after Radiotherapy. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
52	Diversity of ATM gene variants: a population-based genome data analysis for precision medicine. <i>Human Genomics</i> , 2019 , 13, 38	6.8	3
51	First results on cell irradiation with laser-driven protons on the TARANIS system 2013 ,		3
50	Development of a novel experimental model to investigate radiobiological implications of respiratory motion in advanced radiotherapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, N411-20	3.8	3
49	Experimental setup and first measurement of DNA damage induced along and around an antiproton beam. <i>European Physical Journal D</i> , 2010 , 60, 209-214	1.3	3
48	Gold Nanoparticles Cause Radiosensitization in Prostate Cancer Cell Lines in Hypoxic Conditions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, S715-S716	4	3
47	New insights on radiation-induced bystander signalling and its relationship to DNA repair. <i>International Congress Series</i> , 2007 , 1299, 121-127		3
46	Spatially Fractionated Microbeam Analysis of Tissue-sparing Effect for Spermatogenesis. <i>Radiation Research</i> , 2020 , 194, 698-706	3.1	3

45	Delivering a research-enabled multistakeholder partnership for enhanced patient care at a population level: The Northern Ireland Comprehensive Cancer Program. <i>Cancer</i> , 2016 , 122, 664-73	6.4	3
44	Clinically Actionable Insights into Initial and Matched Recurrent Glioblastomas to Inform Novel Treatment Approaches. <i>Journal of Oncology</i> , 2019 , 2019, 4878547	4.5	3
43	Pushing the frontiers of radiobiology: A special feature in memory of Sir Oliver Scott and Professor Jack Fowler. <i>British Journal of Radiology</i> , 2019 , 92, 20189005	3.4	3
42	Impact of Variable RNA-Sequencing Depth on Gene Expression Signatures and Target Compound Robustness: Case Study Examining Brain Tumor (Glioma) Disease Progression. <i>JCO Precision Oncology</i> , 2018 , 2,	3.6	3
41	Further evidence for double-strand breaks originating from a paired radical precursor from studies of oxygen fixation processes. <i>Radiation Research</i> , 1999 , 151, 635-41	3.1	3
40	Opportunities for research in molecular radiotherapy. <i>British Journal of Radiology</i> , 2017 , 90, 20160921	3.4	2
39	Small animal image-guided radiotherapy. <i>British Journal of Radiology</i> , 2017 , 90, 20160905	3.4	2
38	Radiation responses of stem cells: targeted and non-targeted effects. <i>Radiation Protection Dosimetry</i> , 2015 , 166, 110-7	0.9	2
37	Substrate evaluation for a microbeam endstation using unstained cell imaging. <i>Applied Radiation and Isotopes</i> , 2009 , 67, 460-3	1.7	2
36	VUV irradiation studies of plasmid DNA in aqueous solution. <i>Journal of Physics: Conference Series</i> , 2008 , 101, 012020	0.3	2
35	ATR-dependent bystander effects in nontargeted cells. <i>International Journal of Low Radiation</i> , 2008 , 5, 22	1	2
34	Status of Charged Particle Microbeams for Radiation Biology. <i>Journal of Physics: Conference Series</i> , 2007 , 58, 62-67	0.3	2
33	Development and application of a focused ultrasoft x-ray probe for radiobiological applications 2001 ,		2
32	Effects of Gadolinium MRI Contrast Agents on DNA Damage and Cell Survival when Used in Combination with Radiation. <i>Radiation Research</i> , 2020 , 194, 298-309	3.1	2
31	Golgi Phosphoprotein 3 Confers Radioresistance via Stabilizing EGFR in Lung Adenocarcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 ,	4	2
30	Evaluation of a Novel Liquid Fiducial Marker, BioXmark, for Small Animal Image-Guided Radiotherapy Applications. <i>Cancers</i> , 2020 , 12,	6.6	2
29	Toxicity and Efficacy of Concurrent Androgen Deprivation Therapy, Pelvic Radiotherapy, and Radium-223 in Patients with Metastatic Hormone-Sensitive Prostate Cancer. <i>Clinical Cancer Research</i> , 2021 , 27, 4549-4556	12.9	2
28	New Research in Ionizing Radiation and Nanoparticles: The ARGENT Project 2017 , 379-434		1

27	Removal of scatter radiation in paediatric cardiac catheterisation: a randomised controlled clinical trial. <i>Journal of Radiological Protection</i> , 2017 , 37, 742-760	1.2	1
26	NUQA: Estimating Cancer Spatial and Temporal Heterogeneity and Evolution through Alignment-Free Methods. <i>Molecular Biology and Evolution</i> , 2019 , 36, 2883-2889	8.3	1
25	Spatio-temporal analysis of DNA damage repair using the X-ray microbeam. <i>European Physical Journal D</i> , 2010 , 60, 157-161	1.3	1
24	1st L. H. Gray Workshop. Measurement of radiation-induced damage. <i>International Journal of Radiation Biology</i> , 1990 , 58, 391-6	2.9	1
23	Interaction of hydrogen peroxide and ionizing-radiation-induced damage. <i>BJR Supplement</i> , 1992 , 24, 28-31		1
22	Dose estimation after a mixed field exposure: Radium-223 and intensity modulated radiotherapy.. <i>Nuclear Medicine and Biology</i> , 2021 , 106-107, 10-20	2.1	1
21	Bystander Effects and Radionuclide Therapy 2008 , 311-319		1
20	Using Process Algebra to Model Radiation Induced Bystander Effects. <i>Lecture Notes in Computer Science</i> , 2014 , 196-210	0.9	1
19	The Lethality of Radiation-Induced DNA Double-Strand Breaks for Radiations of Differing LET 1991 , 103-104		1
18	Clinical and functional characterization of CXCR1/CXCR2 biology in the relapse and radiotherapy resistance of primary PTEN-deficient prostate carcinoma. <i>NAR Cancer</i> , 2020 , 2, zcaa012	5.2	1
17	TOPAS a tool to evaluate the impact of cell geometry and radionuclide on alpha particle therapy. <i>Biomedical Physics and Engineering Express</i> , 2021 , 7,	1.5	1
16	Oxygen enhancement ratios of cancer cells after exposure to intensity modulated x-ray fields: DNA damage and cell survival. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
15	A Brief Overview of the Preclinical and Clinical Radiobiology of Microbeam Radiotherapy. <i>Clinical Oncology</i> , 2021 , 33, 705-712	2.8	1
14	A study of DNA fragmentation patterns in cells irradiated with charged particles: evidence for non-random distributions. <i>Physica Medica</i> , 1998 , 14 Suppl 1, 20-3	2.7	1
13	Development of a portable hypoxia chamber for ultra-high dose rate laser-driven proton radiobiology applications.. <i>Radiation Oncology</i> , 2022 , 17, 77	4.2	1
12	Updated understanding of WRN variants using the Japanese whole-genome reference panel 3.5KJPNv2. <i>Geriatrics and Gerontology International</i> , 2019 , 19, 961-962	2.9	0
11	A novel tool for improving the interpretation of isotope bone scans in metastatic prostate cancer. <i>British Journal of Radiology</i> , 2020 , 93, 20200775	3.4	0
10	Characterization of a custom-made Am alpha-source for radiobiological studies. <i>Applied Radiation and Isotopes</i> , 2021 , 177, 109931	1.7	0

- 9 A scoping review of small animal image-guided radiotherapy research: Advances, impact and future opportunities in translational radiobiology.. *Clinical and Translational Radiation Oncology*, **2022**, 34, 112-119 4.6
- 8 The European Masters of Science Course in Radiation Biology. *International Congress Series*, **2003**, 1258, 213-217
- 7 Cytotoxicity of high dose methotrexate is not associated with uracil misincorporation into DNA. *Biochemical Society Transactions*, **1986**, 14, 740-741 5.1
- 6 The DNA Damage Response in Nontargeted Cells **2009**, 193-198
- 5 Targeting Radiation at the Subcellular, Cellular and Tissue Levels: Future Strategies **2004**, 225-234
- 4 Application of Microbeams to the Study of the Biological Effects of Low Dose Irradiation **2010**, 575-594
- 3 Spatial and Temporal Aspects of Radiation Response in Cell and Tissue Models **2012**, 385-396
- 2 Sensitivity of PTEN-deficient prostate carcinoma cells to ionizing radiation through inhibition of treatment-induced CXCL8 signaling.. *Journal of Clinical Oncology*, **2013**, 31, 154-154 2.2
- 1 Cell Death Caused by the Anti-Cancer Drug Methotrexate: Does ADP-Ribosyl Transferase Have a Role to Play?. *Proceedings in Life Sciences*, **1985**, 327-331