Kevin M Prise

List of Publications by Year
in descending order

331 papers	15,111 citations	13854 67 h-index	24961 109 g-index
342 all docs	342 docs citations	342 times ranked	10758 citing authors

#	Article	IF	Citations
1	Radiation-induced bystander signalling in cancer therapy. Nature Reviews Cancer, 2009, 9, 351-360.	12.8	703
2	Cell-Specific Radiosensitization by Gold Nanoparticles at Megavoltage Radiation Energies. International Journal of Radiation Oncology Biology Physics, 2011, 79, 531-539.	0.4	388
3	Studies of bystander effects in human fibroblasts using a charged particle microbeam. International Journal of Radiation Biology, 1998, 74, 793-798.	1.0	387
4	Physical basis and biological mechanisms of gold nanoparticle radiosensitization. Nanoscale, 2012, 4, 4830.	2.8	376
5	Biological consequences of nanoscale energy deposition near irradiated heavy atom nanoparticles. Scientific Reports, 2011, 1, 18.	1.6	335
6	Gold nanoparticles for cancer radiotherapy: a review. Cancer Nanotechnology, 2016, 7, 8.	1.9	329
7	New insights on cell death from radiation exposure. Lancet Oncology, The, 2005, 6, 520-528.	5.1	316
8	Targeted cytoplasmic irradiation induces bystander responses. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13495-13500.	3.3	258
9	A review of dsb induction data for varying quality radiations. International Journal of Radiation Biology, 1998, 74, 173-184.	1.0	216
10	Non-targeted effects of ionising radiationâ€"Implications for low dose risk. Mutation Research - Reviews in Mutation Research, 2013, 752, 84-98.	2.4	201
11	Direct evidence for a bystander effect of ionizing radiation in primary human fibroblasts. British Journal of Cancer, 2001, 84, 674-679.	2.9	200
12	Nitric oxide-mediated signaling in the bystander response of individually targeted glioma cells. Cancer Research, 2003, 63, 8437-42.	0.4	200
13	Evaluation of cytotoxicity and radiation enhancement using 1.9 nm gold particles: potential application for cancer therapy. Nanotechnology, 2010, 21, 295101.	1.3	194
14	Role of TGF-Î²1 and nitric oxide in the bystander response of irradiated glioma cells. Oncogene, 2008, 27, 434-440.	2.6	188
15	A charged-particle microbeam: I. Development of an experimental system for targeting cells individually with counted particles. International Journal of Radiation Biology, 1997, 72, 375-385.	1.0	181
16	Biological mechanisms of gold nanoparticle radiosensitization. Cancer Nanotechnology, 2017, 8, 2.	1.9	180
17	ATR-dependent radiation-induced Î³H2AX foci in bystander primary human astrocytes and glioma cells. Oncogene, 2007, 26, 993-1002.	2.6	179
18	Relative Biological Effectiveness Variation Along Monoenergetic and Modulated Bragg Peaks of a 62-MeV Therapeutic Proton Beam: A Preclinical Assessment. International Journal of Radiation Oncology Biology Physics, 2014, 90, 27-35.	0.4	178

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19	A Review of Studies of Ionizing Radiation-Induced Double-Strand Break Clustering. Radiation Research, 2001, 156, 572-576.	0.7	176
20	Nanodosimetric effects of gold nanoparticles in megavoltage radiation therapy. Radiotherapy and Oncology, 2011, 100, 412-416.	0.3	174
21	The use of theranostic gadolinium-based nanoprobes to improve radiotherapy efficacy. British Journal of Radiology, 2014, 87, 20140134.	1.0	167
22	Cytoplasmic Irradiation Induces Mitochondrial-Dependent 53BP1 Protein Relocalization in Irradiated and Bystander Cells. Cancer Research, 2007, 67, 5872-5879.	0.4	160
23	Cell type-dependent uptake, localization, and cytotoxicity of 1.9 nm gold nanoparticles. International Journal of Nanomedicine, 2012, 7, 2673.	3.3	150
24	DNA double-strand break distributions in X-ray and alpha-particle irradiated V79 cells: evidence for non-random breakage. International Journal of Radiation Biology, 1997, 71, 347-363.	1.0	148
25	Inactivation of V79 cells by low-energy protons, deuterons and helium-3 ions. International Journal of Radiation Biology, 1996, 69, 729-738.	1.0	145
26	Use of the Î³-H2AX Assay to Investigate DNA Repair Dynamics Following Multiple Radiation Exposures. PLoS ONE, 2013, 8, e79541.	1.1	143
27	Low-Dose Binary Behavior of Bystander Cell Killing after Microbeam Irradiation of a Single Cell with Focused CKX Rays. Radiation Research, 2005, 163, 332-336.	0.7	139
28	Low-Dose Studies of Bystander Cell Killing with Targeted Soft X Rays. Radiation Research, 2003, 160, 505-511.	0.7	129
29	A charged-particle microbeam: II. A single-particle micro-collimation and detection system.. International Journal of Radiation Biology, 1997, 72, 387-395.	1.0	123
30	A review of the bystander effect and its implications for low-dose exposure. Radiation Protection Dosimetry, 2003, 104, 347-355.	0.4	120
31	Histone H2AX phosphorylation as a molecular pharmacological marker for DNA interstrand crosslink cancer chemotherapy. Biochemical Pharmacology, 2008, 76, 19-27.	2.0	120
32	ATM Acts Downstream of ATR in the DNA Damage Response Signaling of Bystander Cells. Cancer Research, 2008, 68, 7059-7065.	0.4	116
33	Bystander-induced Apoptosis and Premature Differentiation in Primary Urothelial Explants after Charged Particle Microbeam Irradiation. Radiation Protection Dosimetry, 2002, 99, 249-251.	0.4	112
34	Imaging and radiation effects of gold nanoparticles in tumour cells. Scientific Reports, 2016, 6, 19442.	1.6	111
35	Calcium Fluxes Modulate the Radiation-Induced Bystander Responses in Targeted Glioma and Fibroblast Cells. Radiation Research, 2006, 166, 479-487.	0.7	110
36	A proliferation-dependent bystander effect in primary porcine and human urothelial explants in response to targeted irradiation. British Journal of Cancer, 2003, 88, 767-774.	2.9	102

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37	Roadmap for metal nanoparticles in radiation therapy: current status, translational challenges, and future directions. Physics in Medicine and Biology, 2020, 65, 21RM02.	1.6	101
38	Evidence for the Direct Binding of Phosphorylated p53 to Sites of DNA Breaks In vivo. Cancer Research, 2005, 65, 10810-10821.	0.4	98
39	Biological effectiveness on live cells of laser driven protons at dose rates exceeding 109 Gy/s. AIP Advances, 2012, 2, .	0.6	97
40	A Focused Ultrasoft X-Ray Microbeam for Targeting Cells Individually with Submicrometer Accuracy. Radiation Research, 2001, 156, 796-804.	0.7	94
41	BRCA1 Deficiency Exacerbates Estrogen-Induced DNA Damage and Genomic Instability. Cancer Research, 2014, 74, 2773-2784.	0.4	94
42	The Irradiation of V79 Mammalian Cells by Protons with Energies below 2 MeV. International Journal of Radiation Biology, 1989, 56, 221-237.	1.0	93
43	Bystander-induced differentiation: A major response to targeted irradiation of a urothelial explant model. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2006, 597, 43-49.	0.4	91
44	Measurement of DNA Damage by Electrons with Energies between 25 and 4000 EV. International Journal of Radiation Biology, 1993, 64, 651-658.	1.0	90
45	Bystander signaling between glioma cells and fibroblasts targeted with counted particles. International Journal of Cancer, 2005, 116, 45-51.	2.3	89
46	The role of mitochondrial function in gold nanoparticle mediated radiosensitisation. Cancer Nanotechnology, 2014, 5, 5.	1.9	89
47	High dose bystander effects in spatially fractionated radiation therapy. Cancer Letters, 2015, 356, 52-57.	3.2	89
48	ESTRO ACROP: Technology for precision small animal radiotherapy research: Optimal use and challenges. Radiotherapy and Oncology, 2018, 126, 471-478.	0.3	88
49	Cell Killing and DNA Damage in Chinese Hamster V79 Cells Treated with Hydrogen Peroxide. International Journal of Radiation Biology, 1989, 55, 583-592.	1.0	86
50	Validation of a Metastatic Assay using biopsies to improve risk stratification in patients with prostate cancer treated with radical radiation therapy. Annals of Oncology, 2018, 29, 215-222.	0.6	86
51	AGuIX^{Â®} from bench to bedsideâ€”Transfer of an ultrasmall theranostic gadolinium-based nanoparticle to clinical medicine. British Journal of Radiology, 2019, 92, 20180365.	1.0	86
52	Out-of-Field Cell Survival Following Exposure to Intensity-Modulated Radiation Fields. International Journal of Radiation Oncology Biology Physics, 2011, 79, 1516-1522.	0.4	83
53	A study of endonuclease III-sensitive sites in irradiated DNA: detection of Î±-particle-induced oxidative damage. Carcinogenesis, 1999, 20, 905-909.	1.3	82
54	Bystander responses induced by low LET radiation. Oncogene, 2003, 22, 7043-7049.	2.6	82

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55	The Irradiation of V79 Mammalian Cells by Protons with Energies below 2 MeV. Part II. Measurement of Oxygen Enhancement Ratios and DNA Damage. International Journal of Radiation Biology, 1990, 58, 261-277.	1.0	81
56	Delayed lethality, apoptosis and micronucleus formation in human fibroblasts irradiated with X-rays or alpha-particles. International Journal of Radiation Biology, 1999, 75, 985-993.	1.0	81
57	Optimising element choice for nanoparticle radiosensitisers. Nanoscale, 2016, 8, 581-589.	2.8	80
58	The Relationship between Radiation-induced DNA Double-strand Breaks and Cell Kill in Hamster V79 Fibroblasts Irradiated with 250 kVp X-rays, 2Â·3 MeV Neutrons or²³⁸Pu Î±-particles. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1987, 52, 893-902.	1.0	79
59	Effect of Radiation Quality on Lesion Complexity in Cellular DNA. International Journal of Radiation Biology, 1994, 66, 537-542.	1.0	75
60	Radiation Effects on the Cytoskeleton of Endothelial Cells and Endothelial Monolayer Permeability. International Journal of Radiation Oncology Biology Physics, 2007, 69, 1553-1562.	0.4	75
61	Signaling factors for irradiated glioma cells induced bystander responses in fibroblasts. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 638, 139-145.	0.4	75
62	Variations in the Processing of DNA Double-Strand Breaks Along 60-MeV Therapeutic Proton Beams. International Journal of Radiation Oncology Biology Physics, 2016, 95, 86-94.	0.4	74
63	Low-Dose Hypersensitivity in Chinese Hamster V79 Cells Targeted with Counted Protons Using a Charged-Particle Microbeam. Radiation Research, 2001, 156, 526-534.	0.7	73
64	DNA Double Strand Break Repair: A Radiation Perspective. Antioxidants and Redox Signaling, 2013, 18, 2458-2472.	2.5	72
65	Gold nanoparticle cellular uptake, toxicity and radiosensitisation in hypoxic conditions. Radiotherapy and Oncology, 2014, 110, 342-347.	0.3	72
66	Mechanistic Modelling of DNA Repair and Cellular Survival Following Radiation-Induced DNA Damage. Scientific Reports, 2016, 6, 33290.	1.6	72
67	Radiobiology of the FLASH effect. Medical Physics, 2022, 49, 1993-2013.	1.6	72
68	Non-targeted Effects of Radiation: Bystander Responses in Cell and Tissue Models. Radiation Protection Dosimetry, 2002, 99, 223-226.	0.4	71
69	hSSB1 rapidly binds at the sites of DNA double-strand breaks and is required for the efficient recruitment of the MRN complex. Nucleic Acids Research, 2011, 39, 1692-1702.	6.5	70
70	Long-Term Genomic Instability in Human Lymphocytes Induced by Single-Particle Irradiation. Radiation Research, 2001, 155, 122-126.	0.7	69
71	Evidence for induction of DNA double strand breaks in the bystander response to targeted soft X-rays in CHO cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 556, 209-215.	0.4	68
72	Apoptosis is initiated in human keratinocytes exposed to signalling factors from microbeam irradiated cells. International Journal of Radiation Biology, 2006, 82, 393-399.	1.0	68

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73	Use of Radiation Quality as a Probe for DNA Lesion Complexity. International Journal of Radiation Biology, 1994, 65, 43-48.	1.0	67
74	Genomic Instability in Chinese Hamster Cells after Exposure to X Rays or Alpha Particles of Different Mean Linear Energy Transfer. Radiation Research, 1997, 147, 22.	0.7	65
75	Radiation-induced intercellular signaling mediated by cytochrome-c via a p53-dependent pathway in hepatoma cells. Oncogene, 2011, 30, 1947-1955.	2.6	62
76	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. International Journal of Radiation Biology, 2000, 76, 881-890.	1.0	59
77	Evidence for Complexity at the Nanometer Scale of Radiation-Induced DNA DSBs as a Determinant of Rejoining Kinetics. Radiation Research, 2005, 164, 73-85.	0.7	58
78	Mechanistic Rationale to Target PTEN-Deficient Tumor Cells with Inhibitors of the DNA Damage Response Kinase ATM. Cancer Research, 2015, 75, 2159-2165.	0.4	58
79	Investigating the Implications of a Variable RBE on Proton Dose Fractionation Across a Clinical Pencil Beam Scanned Spread-Out Bragg Peak. International Journal of Radiation Oncology Biology Physics, 2016, 95, 70-77.	0.4	57
80	The Radiobiology of Proton Therapy: Challenges and Opportunities Around Relative Biological Effectiveness. Clinical Oncology, 2018, 30, 285-292.	0.6	56
81	A Kinetic-Based Model of Radiation-Induced Intercellular Signalling. PLoS ONE, 2013, 8, e54526.	1.1	55
82	New advances in radiation biology. Occupational Medicine, 2006, 56, 156-161.	0.8	54
83	Local DNA damage by proton microbeam irradiation induces poly(ADP-ribose) synthesis in mammalian cells. Mutagenesis, 2003, 18, 411-416.	1.0	53
84	Bystander Effects Induced by Diffusing Mediators after Photodynamic Stress. Radiation Research, 2009, 172, 74-81.	0.7	53
85	New molecular targets in radiotherapy: DNA damage signalling and repair in targeted and non-targeted cells. European Journal of Pharmacology, 2009, 625, 151-155.	1.7	51
86	What is the Role of the Bystander Response in Radionuclide Therapies?. Frontiers in Oncology, 2013, 3, 215.	1.3	51
87	Energy Dependence of Gold Nanoparticle Radiosensitization in Plasmid DNA. Journal of Physical Chemistry C, 2011, 115, 20160-20167.	1.5	50
88	A mechanistic study of gold nanoparticle radiosensitisation using targeted microbeam irradiation. Scientific Reports, 2017, 7, 44752.	1.6	50
89	A general mechanistic model enables predictions of the biological effectiveness of different qualities of radiation. Scientific Reports, 2017, 7, 10790.	1.6	50
90	A New Standard DNA Damage (SDD) Data Format. Radiation Research, 2018, 191, 76.	0.7	49

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91	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. International Journal of Radiation Biology, 1991, 59, 901-917.	1.0	48
92	Effective Suppression of Bystander Effects by DMSO Treatment of Irradiated CHO Cells. Journal of Radiation Research, 2007, 48, 327-333.	0.8	48
93	Small animal image-guided radiotherapy: status, considerations and potential for translational impact. British Journal of Radiology, 2015, 88, 20140634.	1.0	48
94	Targeted Alpha Therapy: Current Clinical Applications. Cancer Biotherapy and Radiopharmaceuticals, 2020, 35, 404-417.	0.7	48
95	Mechanistic Modelling of Radiation Responses. Cancers, 2019, 11, 205.	1.7	47
96	DNA damage induction in dry and hydrated DNA by synchrotron radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 2753-2761.	0.6	46
97	Bystander Signalling: Exploring Clinical Relevance Through New Approaches and New Models. Clinical Oncology, 2013, 25, 586-592.	0.6	46
98	LET-weighted doses effectively reduce biological variability in proton radiotherapy planning. Physics in Medicine and Biology, 2018, 63, 225009.	1.6	46
99	Genomic Instability in Human Lymphocytes Irradiated with Individual Charged Particles: Involvement of Tumor Necrosis Factor Î± in Irradiated Cells but not Bystander Cells. Radiation Research, 2005, 163, 183-190.	0.7	45
100	A model for radiation-induced bystander effects, with allowance for spatial position and the effects of cell turnover. Journal of Theoretical Biology, 2005, 232, 329-338.	0.8	44
101	Concise Review: Stem Cell Effects in Radiation Risk. Stem Cells, 2011, 29, 1315-1321.	1.4	44
102	DNA Damage Responses following Exposure to Modulated Radiation Fields. PLoS ONE, 2012, 7, e43326.	1.1	44
103	Multidisciplinary European Low Dose Initiative (MELODI): strategic research agenda for low dose radiation risk research. Radiation and Environmental Biophysics, 2018, 57, 5-15.	0.6	44
104	Investigation of dose-rate effects and cell-cycle distribution under protracted exposure to ionizing radiation for various dose-rates. Scientific Reports, 2018, 8, 8287.	1.6	44
105	Evidence for Induction of DNA Double-Strand Breaks at Paired Radical Sites. Radiation Research, 1993, 134, 102.	0.7	43
106	Gamma ray-induced bystander effect in tumour glioblastoma cells: a specific study on cell survival, cytokine release and cytokine receptors. Radiation Protection Dosimetry, 2006, 122, 271-274.	0.4	43
107	Dose, dose-rate and field size effects on cell survival following exposure to non-uniform radiation fields. Physics in Medicine and Biology, 2012, 57, 3197-3206.	1.6	43
108	Immune modulation in advanced radiotherapies: Targeting out-of-field effects. Cancer Letters, 2015, 368, 246-251.	3.2	43

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109	Computed Tomography-based Radiomics for Risk Stratification in Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2019, 105, 448-456.	0.4	41
110	What role for DNA damage and repair in the bystander response?. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2006, 597, 1-4.	0.4	40
111	Microsatellite analysis for determination of the mutagenicity of extremely low-frequency electromagnetic fields and ionising radiation in vitro. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2007, 626, 34-41.	0.9	40
112	Deficiencies of Double-Strand Break Repair Factors and Effects on Mutagenesis in Directly Î³-Irradiated and Medium-Mediated Bystander Human Lymphoblastoid Cells. Radiation Research, 2008, 169, 197-206.	0.7	40
113	Microbeam Studies of the Bystander Response. Journal of Radiation Research, 2009, 50, A1-A6.	0.8	40
114	Preclinical evaluation of gold-DTDTPA nanoparticles as theranostic agents in prostate cancer radiotherapy. Nanomedicine, 2016, 11, 2035-2047.	1.7	40
115	BRCA1, FANCD2 and Chk1 are potential molecular targets for the modulation of a radiation-induced DNA damage response in bystander cells. Cancer Letters, 2015, 356, 454-461.	3.2	39
116	Robustness of differential gene expression analysis of RNA-seq. Computational and Structural Biotechnology Journal, 2021, 19, 3470-3481.	1.9	39
117	Measurement of DNA Damage and Cell Killing in Chinese Hamster V79 Cells Irradiated with Aluminum Characteristic Ultrasoft X Rays. Radiation Research, 1989, 117, 489.	0.7	38
118	Assessing software upgrades, plan properties and patient geometry using intensity modulated radiation therapy (IMRT) complexity metrics. Medical Physics, 2011, 38, 2027-2034.	1.6	38
119	An<i>in vitro</i>study of the radiobiological effects of flattening filter free radiotherapy treatments. Physics in Medicine and Biology, 2013, 58, N83-N94.	1.6	38
120	Histone H2AX Phosphorylation in Normal Human Cells Irradiated with Focused Ultrasoft X Rays: Evidence for Chromatin Movement during Repair. Radiation Research, 2006, 166, 31-38.	0.7	37
121	DNA DSB Repair Dynamics following Irradiation with Laser-Driven Protons at Ultra-High Dose Rates. Scientific Reports, 2019, 9, 4471.	1.6	37
122	Protein disulphide isomerase as a target for nanoparticle-mediated sensitisation of cancer cells to radiation. Nanotechnology, 2016, 27, 215101.	1.3	36
123	A Computational Model of Cellular Response to Modulated Radiation Fields. International Journal of Radiation Oncology Biology Physics, 2012, 84, 250-256.	0.4	35
124	The role of higher-order chromatin structure in the yield and distribution of DNA double-strand breaks in cells irradiated with X-rays or Î±-particles. International Journal of Radiation Biology, 2000, 76, 1085-1093.	1.0	34
125	A Comparison of the Chemical Repair Rates of Free Radical Precursors of DNA Damage and Cell Killing in Chinese Hamster V79 Cells. International Journal of Radiation Biology, 1992, 61, 721-728.	1.0	33
126	The radiobiology of laser-driven particle beams: focus on sub-lethal responses of normal human cells. Journal of Instrumentation, 2017, 12, C03084-C03084.	0.5	33

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127	PTEN deficiency promotes macrophage infiltration and hypersensitivity of prostate cancer to IAP antagonist/radiation combination therapy. Oncotarget, 2016, 7, 7885-7898.	0.8	33
128	Ionizing radiation-induced bystander mutagenesis and adaptation: Quantitative and temporal aspects. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 671, 20-25.	0.4	32
129	A scanning focussed vertical ion nanobeam: A new UK facility for cell irradiation and analysis. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 97-100.	0.6	31
130	Identification of RBCK1 as a novel regulator of FKBPL: implications for tumor growth and response to tamoxifen. Oncogene, 2014, 33, 3441-3450.	2.6	31
131	Quantification of radiation induced DNA double-strand breaks in human fibroblasts by PFGE: testing the applicability of random breakage models. International Journal of Radiation Biology, 2002, 78, 375-388.	1.0	30
132	Radiation-Induced Bystander Effects. Strahlentherapie Und Onkologie, 2003, 179, 69-77.	1.0	30
133	Inhibition of ataxia telangiectasia related-3 (ATR) improves therapeutic index in preclinical models of non-small cell lung cancer (NSCLC) radiotherapy. Radiotherapy and Oncology, 2017, 124, 475-481.	0.3	30
134	Small field dosimetry for the small animal radiotherapy research platform (SARRP). Radiation Oncology, 2017, 12, 204.	1.2	30
135	Radiobiology Experiments With Ultra-high Dose Rate Laser-Driven Protons: Methodology and State-of-the-Art. Frontiers in Physics, 2021, 9, .	1.0	30
136	An arrangement for irradiating cultured mammalian cells with aluminium characteristic ultrasoft X-rays. Physics in Medicine and Biology, 1987, 32, 1615-1626.	1.6	29
137	Investigating the cellular effects of isolated radiation tracks using microbeam techniques. Advances in Space Research, 2002, 30, 871-876.	1.2	29
138	A study of the biological effects of modulated 6 MV radiation fields. Physics in Medicine and Biology, 2010, 55, 1607-1618.	1.6	29
139	The impact of microbeams in radiation biology. Nuclear Instruments & Methods in Physics Research B, 2001, 181, 426-430.	0.6	28
140	Estrogen enhanced cell-cell signalling in breast cancer cells exposed to targeted irradiation. BMC Cancer, 2008, 8, 184.	1.1	28
141	Using the Proton Energy Spectrum and Microdosimetry to Model Proton Relative Biological Effectiveness. International Journal of Radiation Oncology Biology Physics, 2019, 104, 316-324.	0.4	28
142	The design and application of ion microbeams for irradiating living cells and tissues. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 302-307.	0.6	27
143	Radiation induced bystander signals are independent of DNA damage and DNA repair capacity of the irradiated cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2007, 619, 134-138.	0.4	27
144	Genomic instability after targeted irradiation of human lymphocytes: Evidence for inter-individual differences under bystander conditions. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2010, 688, 91-94.	0.4	27

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145	Microbeam evolution: from single cell irradiation to pre-clinical studies. International Journal of Radiation Biology, 2018, 94, 708-718.	1.0	27
146	A multiple-radical model for radiation action on DNA and the dependence of OER on LET. International Journal of Radiation Biology, 1996, 69, 351-358.	1.0	26
147	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. International Journal of Radiation Biology, 2000, 76, 763-771.	1.0	26
148	Microbeams in radiation biology: review and critical comparison. Radiation Protection Dosimetry, 2011, 143, 335-339.	0.4	26
149	Combined Analysis of Gamma-H2AX/53BP1 Foci and Caspase Activation in Lymphocyte Subsets Detects Recent and More Remote Radiation Exposures. Radiation Research, 2013, 180, 603-609.	0.7	26
150	Low-dose radiation-induced risk in spermatogenesis. International Journal of Radiation Biology, 2017, 93, 1291-1298.	1.0	26
151	Cell Survival Responses after Exposure to Modulated Radiation Fields. Radiation Research, 2012, 177, 44-51.	0.7	25
152	Down-regulation of PERK enhances resistance to ionizing radiation. Biochemical and Biophysical Research Communications, 2013, 441, 31-35.	1.0	25
153	Low dose effects of ionizing radiation on normal tissue stem cells. Mutation Research - Reviews in Mutation Research, 2014, 761, 6-14.	2.4	25
154	Two approaches for irradiating cells individually: a charged-particle microbeam and a soft X-ray microprobe. Nuclear Instruments & Methods in Physics Research B, 1997, 130, 270-274.	0.6	24
155	Radiation microbeams as spatial and temporal probes of subcellular and tissue response. Mutation Research - Reviews in Mutation Research, 2010, 704, 68-77.	2.4	24
156	Temporal characterization and<i>in vitro</i>comparison of cell survival following the delivery of 3D-conformal, intensity-modulated radiation therapy (IMRT) and volumetric modulated arc therapy (VMAT). Physics in Medicine and Biology, 2011, 56, 2445-2457.	1.6	24
157	<i>In-vitro</i>investigation of out-of-field cell survival following the delivery of conformal, intensity-modulated radiation therapy (IMRT) and volumetric modulated arc therapy (VMAT) plans. Physics in Medicine and Biology, 2012, 57, 6635-6645.	1.6	24
158	History and current perspectives on the biological effects of high-dose spatial fractionation and high dose-rate approaches: GRID, Microbeam & FLASH radiotherapy. British Journal of Radiology, 2020, 93, 20200217.	1.0	24
159	Impact of superparamagnetic iron oxide nanoparticles on in vitro and in vivo radiosensitisation of cancer cells. Radiation Oncology, 2021, 16, 104.	1.2	24
160	Role of Charge in the Radioprotection ofE. Coliby Thiols. International Journal of Radiation Biology, 1995, 67, 393-401.	1.0	23
161	Real-time imaging of novel spatial and temporal responses to photodynamic stress. Free Radical Biology and Medicine, 2009, 47, 283-290.	1.3	23
162	DNA and chromosomal damage in response to intermittent extremely low-frequency magnetic fields. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 672, 82-89.	0.9	23

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163	Single ion actions: The induction of micronuclei in V79 cells exposed to individual protons. Advances in Space Research, 2000, 25, 2095-2101.	1.2	22
164	The Production of Single Strand and Double Strand Breaks in DNA in Aqueous Solution by Vacuum UV Photons Below 10 ev. Radiation Protection Dosimetry, 2002, 99, 147-149.	0.4	22
165	Action Spectra for Single- and Double-strand Break Induction in Plasmid DNA: Studies Using Synchrotron Radiation. International Journal of Radiation Biology, 1994, 66, 569-572.	1.0	21
166	Quantification of DNA damage by PFGE: development of an analytical approach to correct for the background distribution. International Journal of Radiation Biology, 2000, 76, 741-748.	1.0	21
167	A Monte Carlo Model of DNA Double-Strand Break Clustering and Rejoining Kinetics for the Analysis of Pulsed-Field Gel Electrophoresis Data. Radiation Research, 2004, 162, 453-463.	0.7	21
168	Antiproton induced DNA damage: proton like in flight, carbon-ion like near rest. Scientific Reports, 2013, 3, 1770.	1.6	21
169	FLIP: A Targetable Mediator of Resistance to Radiation in Nonâ€“Small Cell Lung Cancer. Molecular Cancer Therapeutics, 2016, 15, 2432-2441.	1.9	21
170	Implications of Intercellular Signaling for Radiation Therapy: A Theoretical Dose-Planning Study. International Journal of Radiation Oncology Biology Physics, 2013, 87, 1148-1154.	0.4	20
171	High-precision microbeam radiotherapy reveals testicular tissue-sparing effects for male fertility preservation. Scientific Reports, 2019, 9, 12618.	1.6	20
172	New insights into the cellular response to radiation using microbeams. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 189-194.	0.6	19
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