Yoshiya Furusawa

List of Publications by Citations

165 papers	5,634 citations	39 h-index	68 g-index
167 ext. papers	6,240 ext. citations	2.8 avg, IF	5.03 L-index

#	Paper	IF	Citations
165	Biophysical characteristics of HIMAC clinical irradiation system for heavy-ion radiation therapy. *International Journal of Radiation Oncology Biology Physics*, **1999**, 44, 201-10	4	641
164	Platinum nanoparticles: a promising material for future cancer therapy?. *Nanotechnology*, **2010**, 21, 85103	3.4	283
163	Irradiation of Mixed Beam and Design of Spread-Out Bragg Peak for Heavy-Ion Radiotherapy. *Radiation Research*, **1997**, 147, 78	3.1	282
162	Microdosimetric measurements and estimation of human cell survival for heavy-ion beams. *Radiation Research*, **2006**, 166, 629-38	3.1	188
161	Treatment planning for a scanned carbon beam with a modified microdosimetric kinetic model. *Physics in Medicine and Biology*, **2010**, 55, 6721-37	3.8	160
160	Particle irradiation suppresses metastatic potential of cancer cells. *Cancer Research*, **2005**, 65, 113-20	10.1	131
159	Bystander effect induced by counted high-LET particles in confluent human fibroblasts: a mechanistic study. *FASEB Journal*, **2003**, 17, 1422-7	0.9	124
158	Contributions of direct and indirect actions in cell killing by high-LET radiations. *Radiation Research*, **2009**, 171, 212-8	3.1	113
157	Preclinical biological assessment of proton and carbon ion beams at Hyogo Ion Beam Medical Center. *International Journal of Radiation Oncology Biology Physics*, **2002**, 54, 928-38	4	107
156	Biophysical calculation of cell survival probabilities using amorphous track structure models for heavy-ion irradiation. *Physics in Medicine and Biology*, **2008**, 53, 37-59	3.8	105
155	Effects of carbon ion beam on putative colon cancer stem cells and its comparison with X-rays. *Cancer Research*, **2011**, 71, 3676-87	10.1	102
154	Role of gap junctional intercellular communication in radiation-induced bystander effects in human fibroblasts. *Radiation Research*, **2003**, 160, 318-23	3.1	96
153	Kill-painting of hypoxic tumours in charged particle therapy. *Scientific Reports*, **2015**, 5, 17016	4.9	87
152	High-LET radiation enhanced apoptosis but not necrosis regardless of p53 status. *International Journal of Radiation Oncology Biology Physics*, **2004**, 60, 591-7	4	80
151	Repair kinetics of DNA-DSB induced by X-rays or carbon ions under oxic and hypoxic conditions. *Journal of Radiation Research*, **2005**, 46, 325-32	2.4	77
150	Biological gain of carbon-ion radiotherapy for the early response of tumor growth delay and against early response of skin reaction in mice. *Journal of Radiation Research*, **2005**, 46, 51-7	2.4	76
149	Carbon-ion beam irradiation effectively suppresses migration and invasion of human non-small-cell lung cancer cells. *International Journal of Radiation Oncology Biology Physics*, **2009**, 75, 475-81	4	72

148	Gadolinium-based nanoparticles to improve the hadrontherapy performances. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 1601-8	6	68
147	Contribution of indirect action to radiation-induced mammalian cell inactivation: dependence on photon energy and heavy-ion LET. *Radiation Research*, **2006**, 165, 703-12	3.1	63
146	Association between G 2 -Phase Block and Repair of Radiation-Induced Chromosome Fragments in Human Lymphocytes. *Radiation Research*, **1999**, 151, 670	3.1	62
145	Relative biological effectiveness of the 235 MeV proton beams at the National Cancer Center Hospital East. *Journal of Radiation Research*, **2001**, 42, 79-89	2.4	60
144	Quantitative analysis of isolated and clustered DNA damage induced by gamma-rays, carbon ion beams, and iron ion beams. *Journal of Radiation Research*, **2008**, 49, 133-46	2.4	59
143	Medium-mediated bystander effects on HSG cells co-cultivated with cells irradiated by X-rays or a 290 MeV/u carbon beam. *Journal of Radiation Research*, **2001**, 42, 305-16	2.4	56
142	Heavy-ion microbeam system at JAEA-Takasaki for microbeam biology. *Journal of Radiation Research*, **2008**, 49, 71-82	2.4	54
141	X-rays vs. carbon-ion tumor therapy: cytogenetic damage in lymphocytes. *International Journal of Radiation Oncology Biology Physics*, **2000**, 47, 793-8	4	54
140	LET dependency of heavy-ion induced apoptosis in V79 cells. *Journal of Radiation Research*, **2000**, 41, 163-75	2.4	53
139	Heavy ion radiation up-regulates Cx43 and ameliorates arrhythmogenic substrates in hearts after myocardial infarction. *Cardiovascular Research*, **2006**, 72, 412-21	9.9	52
138	Enhanced radiobiological effects at the distal end of a clinical proton beam: in vitro study. *Journal of Radiation Research*, **2014**, 55, 816-22	2.4	50
137	Comparison of biological effectiveness of carbon-ion beams in Japan and Germany. *International Journal of Radiation Oncology Biology Physics*, **2009**, 73, 1545-51	4	50
136	Microdosimetric calculation of relative biological effectiveness for design of therapeutic proton beams. *Journal of Radiation Research*, **2013**, 54, 485-93	2.4	49
135	Relation between lineal energy distribution and relative biological effectiveness for photon beams according to the microdosimetric kinetic model. *Journal of Radiation Research*, **2011**, 52, 75-81	2.4	49
134	Cell survival fraction estimation based on the probability densities of domain and cell nucleus specific energies using improved microdosimetric kinetic models. *Radiation Research*, **2012**, 178, 341-56	3.1	48
133	Effectiveness of monoenergetic and spread-out bragg peak carbon-ions for inactivation of various normal and tumour human cell lines. *Journal of Radiation Research*, **2008**, 49, 597-607	2.4	48
132	Heavy ion irradiation inhibits in vitro angiogenesis even at sublethal dose. *Cancer Research*, **2003**, 63, 4253-7	10.1	48
131	Carbon ion irradiation suppresses metastatic potential of human non-small cell lung cancer A549 cells through the phosphatidylinositol-3-kinase/Akt signaling pathway. *Journal of Radiation Research*, **2011**, 52, 374-9	2.4	47

130	Nonhomologous end-joining repair plays a more important role than homologous recombination repair in defining radiosensitivity after exposure to high-LET radiation. *Radiation Research*, **2014**, 182, 338-44	3.1	46
129	Radiobiological description of the LET dependence of the cell survival of oxic and anoxic cells irradiated by carbon ions. *Journal of Radiation Research*, **2013**, 54, 18-26	2.4	45
128	Bystander effect on cell growth stimulation in neoplastic HSGc cells induced by heavy-ion irradiation. *Radiation and Environmental Biophysics*, **2003**, 42, 183-7	2	43
127	Relationship between aberration yield and mitotic delay in human lymphocytes exposed to 200 MeV/u Fe-ions or X-rays. *Journal of Radiation Research*, **2002**, 43 Suppl, S175-9	2.4	40
126	Bystander effect in lymphoma cells vicinal to irradiated neoplastic epithelial cells: nitric oxide is involved. *Journal of Radiation Research*, **2004**, 45, 97-103	2.4	38
125	High LET radiation enhances apoptosis in mutated p53 cancer cells through Caspase-9 activation. *Cancer Science*, **2008**, 99, 1455-60	6.9	37
124	Relative biological effectiveness of 290 MeV/u carbon ions for the growth delay of a radioresistant murine fibrosarcoma. *Journal of Radiation Research*, **2002**, 43, 247-55	2.4	37
123	Clinical oxygen enhancement ratio of tumors in carbon ion radiotherapy: the influence of local oxygenation changes. *Journal of Radiation Research*, **2014**, 55, 902-11	2.4	34
122	Year-long upregulation of connexin43 in rabbit hearts by heavy ion irradiation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 298, H1014-21	5.2	34
121	Regulation of ATM in DNA double strand break repair accounts for the radiosensitivity in human cells exposed to high linear energy transfer ionizing radiation. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2009**, 670, 15-23	3.3	33
120	DNA damage recognition proteins localize along heavy ion induced tracks in the cell nucleus. *Journal of Radiation Research*, **2008**, 49, 645-52	2.4	32
119	Gene expression analysis in human malignant melanoma cell lines exposed to carbon beams. *International Journal of Radiation Biology*, **2008**, 84, 299-314	2.9	32
118	Truly incomplete and complex exchanges in prematurely condensed chromosomes of human fibroblasts exposed in vitro to energetic heavy ions. *Radiation Research*, **2003**, 160, 418-24	3.1	32
117	ATM-dependent hyper-radiosensitivity in mammalian cells irradiated by heavy ions. *International Journal of Radiation Oncology Biology Physics*, **2009**, 75, 235-43	4	31
116	Apparent absence of a proton beam dose rate effect and possible differences in RBE between Bragg peak and plateau. *Medical Physics*, **2010**, 37, 5376-81	4.4	31
115	Microbeams of heavy charged particles. *Uchu Seibutsu Kagaku*, **2004**, 18, 235-40	1	31
114	Detection of DNA-protein crosslinks (DPCs) by novel direct fluorescence labeling methods: distinct stabilities of aldehyde and radiation-induced DPCs. *Nucleic Acids Research*, **2012**, 40, e143	20.1	30
113	The difference in LET and ion species dependence for induction of initially measured and non-rejoined chromatin breaks in normal human fibroblasts. *Radiation Research*, **2008**, 170, 163-71	3.1	30

112	Relative biological effectiveness of accelerated heavy ions for induction of morphological transformation in Syrian hamster embryo cells. *Journal of Radiation Research*, **1998**, 39, 193-201	2.4	29
111	Action spectrum analysis of UVR genotoxicity for skin: the border wavelengths between UVA and UVB can bring serious mutation loads to skin. *Journal of Investigative Dermatology*, **2013**, 133, 1850-6	4.3	28
110	Cell cycle suspension: a novel process lurking in G□arrest. *Cell Cycle*, **2011**, 10, 1468-76	4.7	27
109	Protective effects of melatonin against low- and high-LET irradiation. *Journal of Radiation Research*, **2006**, 47, 175-81	2.4	27
108	Exploration of "over kill effect" of high-LET Ar- and Fe-ions by evaluating the fraction of non-hit cell and interphase death. *Journal of Radiation Research*, **2005**, 46, 343-50	2.4	27
107	Response of Mouse Intestine after Single and Fractionated Irradiation with Accelerated Carbon Ions with a Spread-Out Bragg Peak. *Radiation Research*, **1997**, 148, 168	3.1	26
106	High LET heavy ion radiation induces lower numbers of initial chromosome breaks with minimal repair than low LET radiation in normal human cells. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2008**, 652, 95-101	3	26
105	The dependence of p53 on the radiation enhancement of thermosensitivity at different let. *International Journal of Radiation Oncology Biology Physics*, **2000**, 47, 489-94	4	25
104	Role of autophagy in high linear energy transfer radiation-induced cytotoxicity to tumor cells. *Cancer Science*, **2014**, 105, 770-8	6.9	24
103	OH radicals from the indirect actions of X-rays induce cell lethality and mediate the majority of the oxygen enhancement effect. *Radiation Research*, **2013**, 180, 514-23	3.1	24
102	Analysis of cell-survival fractions for heavy-ion irradiations based on microdosimetric kinetic model implemented in the particle and heavy ion transport code system. *Radiation Protection Dosimetry*, **2011**, 143, 491-6	0.9	24
101	Analysis of cytogenetic damage in rice seeds induced by energetic heavy ions on-ground and after spaceflight. *Journal of Radiation Research*, **2006**, 47, 273-8	2.4	24
100	RAC2-P38 MAPK-dependent NADPH oxidase activity is associated with the resistance of quiescent cells to ionizing radiation. *Cell Cycle*, **2017**, 16, 113-122	4.7	23
99	Evaluation of SCCVII tumor cell survival in clamped and non-clamped solid tumors exposed to carbon-ion beams in comparison to X-rays. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2013**, 756, 146-51	3	23
98	Role of isolated and clustered DNA damage and the post-irradiating repair process in the effects of heavy ion beam irradiation. *Journal of Radiation Research*, **2015**, 56, 446-55	2.4	22
97	Monte Carlo simulation of radial distribution of DNA strand breaks along the C and Ne ion paths. *Radiation Protection Dosimetry*, **2011**, 143, 186-90	0.9	22
96	Cell biological basis for combination radiotherapy using heavy-ion beams and high-energy X-rays. *Radiotherapy and Oncology*, **2004**, 71, 207-11	5.3	22
95	Enhanced DNA double-strand break repair of microbeam targeted A549 lung carcinoma cells by adjacent WI38 normal lung fibroblast cells via bi-directional signaling. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2017**, 803-805, 1-8	3.3	21

94	Radiobiologic significance of response of intratumor quiescent cells in vivo to accelerated carbon ion beams compared with gamma-rays and reactor neutron beams. *International Journal of Radiation Oncology Biology Physics*, **2008**, 70, 221-8	4	21
93	Depression of p53-independent Akt survival signals in human oral cancer cells bearing mutated p53 gene after exposure to high-LET radiation. *Biochemical and Biophysical Research Communications*, **2012**, 423, 654-60	3.4	20
92	DNA fragmentation induced in human fibroblasts by accelerated (56)fe ions of differing energies. *Radiation Research*, **2006**, 165, 713-20	3.1	20
91	Influence of the shielding on the induction of chromosomal aberrations in human lymphocytes exposed to high-energy iron ions. *Journal of Radiation Research*, **2002**, 43 Suppl, S107-11	2.4	20
90	Inducibility of Ventricular Arrhythmia 1 Year Following Treatment with Heavy Ion Irradiation in Dogs with Myocardial Infarction. *PACE - Pacing and Clinical Electrophysiology*, **2017**, 40, 379-390	1.6	19
89	The complexity of DNA double strand break is a crucial factor for activating ATR signaling pathway for G2/M checkpoint regulation regardless of ATM function. *DNA Repair*, **2015**, 25, 72-83	4.3	19
88	Radiobiological characterization of proton beam at the National Cancer Center in Korea. *Journal of Radiation Research*, **2008**, 49, 509-15	2.4	19
87	Biological intercomparison using gut crypt survivals for proton and carbon-ion beams. *Journal of Radiation Research*, **2007**, 48 Suppl A, A75-80	2.4	19
86	Determination of the relative biological effectiveness and oxygen enhancement ratio for micronuclei formation using high-LET radiation in solid tumor cells: An in vitro and in vivo study. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2015**, 793, 41-7	3	18
85	Radiosensitization by hyperthermia in the chicken B-lymphocyte cell line DT40 and its derivatives lacking nonhomologous end joining and/or homologous recombination pathways of DNA double-strand break repair. *Radiation Research*, **2004**, 162, 433-41	3.1	18
84	Radiation-induced growth inhibition in transplanted human tongue carcinomas with different p53 gene status. *Anticancer Research*, **2002**, 22, 2037-43	2.3	18
83	Differential effects of p53 on bystander phenotypes induced by gamma ray and high LET heavy ion radiation. *Life Sciences in Space Research*, **2014**, 1, 53-9	2.4	17
82	Induction of DNA-protein cross-links by ionizing radiation and their elimination from the genome. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2015**, 771, 45-50	3.3	17
81	In vivo radiobiological characterization of proton beam at the National Cancer Center in Korea: effect of the Chk2 mutation. *International Journal of Radiation Oncology Biology Physics*, **2011**, 79, 559-62	4	16
80	Microdosimetric study on influence of low energy photons on relative biological effectiveness under therapeutic conditions using 6 MV linac. *Medical Physics*, **2011**, 38, 4714-22	4.4	16
79	Dependence of Induction of Interphase Death of Chinese Hamster Ovary Cells Exposed to Accelerated Heavy Ions on Linear Energy Transfer. *Radiation Research*, **1997**, 148, 449	3.1	16
78	RBE and OER within the spread-out Bragg peak for proton beam therapy: in vitro study at the Proton Medical Research Center at the University of Tsukuba. *Journal of Radiation Research*, **2014**, 55, 1028-32	2.4	15
77	Visualization of heavy ion tracks by labeling 3'-OH termini of induced DNA strand breaks. *Journal of Radiation Research*, **2011**, 52, 433-40	2.4	15

76	A new method for the simultaneous detection of mammalian cells and ion tracks on a surface of CR-39. *Journal of Radiation Research*, **2007**, 48, 255-61	2.4	15
75	Irradiation system of ions (HXe) for biological studies near the Bragg peak. *Review of Scientific Instruments*, **2005**, 76, 114302	1.7	15
74	Time course of reoxygenation in experimental murine tumors after carbon-beam and X-ray irradiation. *Journal of Radiation Research*, **2001**, 42, 131-41	2.4	15
73	PU-H71, a novel Hsp90 inhibitor, as a potential cancer-specific sensitizer to carbon-ion beam therapy. *Journal of Radiation Research*, **2016**, 57, 572-575	2.4	14
72	Co-visualization of DNA damage and ion traversals in live mammalian cells using a fluorescent nuclear track detector. *Journal of Radiation Research*, **2015**, 56, 360-5	2.4	14
71	Tissue-dependent somaclonal mutation frequencies and spectra enhanced by ion beam irradiation in chrysanthemum. *Euphytica*, **2015**, 202, 333-343	2.1	13
70	DNA Damage Response Proteins and Oxygen Modulate Prostaglandin E2 Growth Factor Release in Response to Low and High LET Ionizing Radiation. *Frontiers in Oncology*, **2015**, 5, 260	5.3	13
69	Arpc1b gene is a candidate prediction marker for choroidal malignant melanomas sensitive to radiotherapy. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 2300-4		13
68	Analysis of unrejoined chromosomal breakage in human fibroblast cells exposed to low- and high-LET radiation. *Journal of Radiation Research*, **2002**, 43 Suppl, S181-5	2.4	13
67	Effect of a hypoxic cell sensitizer doranidazole on the radiation-induced apoptosis of mouse L5178Y lymphoma cells. *Journal of Radiation Research*, **2002**, 43, 161-6	2.4	13
66	Number of Fe ion traversals through a cell nucleus for mammalian cell inactivation near the bragg peak. *Journal of Radiation Research*, **2005**, 46, 415-24	2.4	13
65	Dependence of the bystander effect for micronucleus formation on dose of heavy-ion radiation in normal human fibroblasts. *Radiation Protection Dosimetry*, **2015**, 166, 152-6	0.9	12
64	Misrepair of DNA double-strand breaks after exposure to heavy-ion beams causes a peak in the LET-RBE relationship with respect to cell killing in DT40 cells. *Journal of Radiation Research*, **2013**, 54, 1029-35	2.4	12
63	Quantitative proteomic analysis for radiation-induced cell cycle suspension in 92-1 melanoma cell line. *Journal of Radiation Research*, **2013**, 54, 649-62	2.4	12
62	Comparison of DNA breaks at entrance channel and Bragg peak induced by fast C6+ ions--influence of the addition of platinum atoms on DNA. *Journal of Radiation Research*, **2010**, 51, 21-6	2.4	12
61	Comment on 'Therapeutic application of metallic nanoparticles combined with particle-induced x-ray emission effect'. *Nanotechnology*, **2012**, 23, 078001; author reply 078002	3.4	12
60	Radioprotection by DMSO in nitrogen-saturated mammalian cells exposed to helium ion beams. *Radiation Physics and Chemistry*, **2009**, 78, 1175-1178	2.5	12
59	Repair of skin damage during fractionated irradiation with gamma rays and low-LET carbon ions. *Journal of Radiation Research*, **2006**, 47, 167-74	2.4	12

58	The radiosensitivity of total and quiescent cell populations in solid tumors to 290 MeV/u carbon ion beam irradiation in vivo. *Acta Oncologica*, **2008**, 47, 1087-93	3.2	11
57	Comparative analysis of G2 arrest after irradiation with 75 keV carbon-ion beams and 137Cs gamma-rays in a human lymphoblastoid cell line. *Cancer Detection and Prevention*, **2003**, 27, 222-8		11
56	Metformin enhances the radiosensitivity of human liver cancer cells to γ-rays and carbon ion beams. *Oncotarget*, **2016**, 7, 80568-80578	3.3	11
55	Radiosensitization by inhibiting survivin in human hepatoma HepG2 cells to high-LET radiation. *Journal of Radiation Research*, **2011**, 52, 335-41	2.4	10
54	Induction of micronuclei in germinating onion seed root tip cells irradiated with high energy heavy ions. *Journal of Radiation Research*, **2010**, 51, 315-23	2.4	10
53	Time course and spacial distribution of UV effects on human skin in organ culture. *Journal of Radiation Research*, **2008**, 49, 269-77	2.4	10
52	Effects of shielding on the induction of 53BP1 foci and micronuclei after Fe ion exposures. *Journal of Radiation Research*, **2014**, 55, 10-6	2.4	9
51	Relative biological effectiveness of therapeutic proton beams for HSG cells at Japanese proton therapy facilities. *Journal of Radiation Research*, **2014**, 55, 812-5	2.4	9
50	Involvement of gap junctional intercellular communication in the bystander effect induced by broad-beam or microbeam heavy ions. *Nuclear Instruments & Methods in Physics Research B*, **2006**, 251, 177-181	1.2	9
49	Sper/NO-induced reversible proliferation inhibition and cycle arrests associated with a micronucleus induction in HSG cells. *Nitric Oxide - Biology and Chemistry*, **2003**, 8, 83-8	5	9
48	ATR signaling cooperates with ATM in the mechanism of low dose hypersensitivity induced by carbon ion beam. *DNA Repair*, **2015**, 34, 1-8	4.3	8
47	Rejoining kinetics of G1-PCC breaks induced by different heavy-ion beams with a similar LET value. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2010**, 701, 47-51	3	8
46	Absence of Ku70 gene obliterates X-ray-induced lacZ mutagenesis of small deletions in mouse tissues. *Radiation Research*, **2008**, 170, 216-23	3.1	8
45	Two major factors involved in the reverse dose-rate effect for somatic mutation induction are the cell cycle position and LET value. *Journal of Radiation Research*, **2009**, 50, 441-8	2.4	8
44	Effect of gap junctional intercellular communication on radiation responses in neoplastic human cells. *Radiation Research*, **2007**, 167, 283-8	3.1	8
43	Induction of chromatin damage and distribution of isochromatid breaks in human fibroblast cells exposed to heavy ions. *Journal of Radiation Research*, **2002**, 43 Suppl, S169-73	2.4	8
42	Both irradiated and bystander effects link with DNA repair capacity and the linear energy transfer. *Life Sciences*, **2019**, 222, 228-234	6.8	7
41	High LET radiation enhances nocodazole Induced cell death in HeLa cells through mitotic catastrophe and apoptosis. *Journal of Radiation Research*, **2011**, 52, 481-9	2.4	7

40	Action spectra of apoptosis induction and reproductive cell death in L5178Y cells in the UV-B region. *Photochemical and Photobiological Sciences*, **2004**, 3, 268-72	4.2	7
39	Cell cycle and LET dependence for radiation-induced mutation: a possible mechanism for reversed dose-rate effect. *Journal of Radiation Research*, **1999**, 40 Suppl, 45-52	2.4	7
38	Antimetastatic Effects of Carbon-Ion Beams on Malignant Melanomas. *Radiation Research*, **2018**, 190, 412-423	3.1	7
37	Biological effects of carbon ion beams with various LETs on budding yeast Saccharomyces cerevisiae. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2018**, 810, 45-51	3.3	6
36	G(2)-M phase-correlative bystander effects are co-mediated by DNA-PKcs and ATM after carbon ion irradiation. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2016**, 795, 1-6	3	6
35	Simulated studies on the biological effects of space radiation on quiescent human fibroblasts. *Advances in Space Research*, **2013**, 52, 1314-1319	2.4	6
34	Comparison of the repair of potentially lethal damage after low- and high-LET radiation exposure, assessed from the kinetics and fidelity of chromosome rejoining in normal human fibroblasts. *Journal of Radiation Research*, **2013**, 54, 989-97	2.4	6
33	LET dependence of the formation of oxidative damage 8-hydroxy-2?-deoxyguanosine (8-OHdG) in 2?-deoxyguanosine aqueous solution irradiated with heavy ions. *Radiation Physics and Chemistry*, **2009**, 78, 1207-1210	2.5	6
32	Comment on Enhanced relative biological effectiveness of proton radiotherapy in tumor cells with internalized gold nanoparticles[Appl. Phys. Lett. 98, 193702 (2011)]. *Applied Physics Letters*, **2012**, 100, 026101	3.4	6
31	Dosimetry for a microbeam array generated by synchrotron radiation at SPring-8. *European Journal of Radiology*, **2008**, 68, S114-7	4.7	6
30	Models for mixed irradiation with a 'reciprocal-time' pattern of the repair function. *Journal of Radiation Research*, **2002**, 43, 257-67	2.4	6
29	Changes in arrhythmogenic properties and five-year prognosis after carbon-ion radiotherapy in patients with mediastinum cancer. *Annals of Noninvasive Electrocardiology*, **2018**, 23,	1.5	6
28	Biological effects of ion beam irradiation on perennial gentian and apple. *Plant Biotechnology*, **2018** , 35, 249-257	1.3	6
27	Gene expression associated with DNA-dependent protein kinase activity under normoxia, hypoxia, and reoxygenation. *Journal of Radiation Research*, **2011**, 52, 464-71	2.4	5
26	Responses of total and quiescent cell populations in solid tumors to carbon ion beam irradiation (290 MeV/u) in vivo. *Radiation Medicine*, **2008**, 26, 270-7		5
25	Relationship between LET and RBE values for Escherichia coli determined using carbon ion beams from the TIARA cyclotron and HIMAC synchrotron. *Journal of General and Applied Microbiology*, **1997**, 43, 175-7	1.5	5
24	Equivalency of the quality of sublethal lesions after photons and high-linear energy transfer ion beams. *Journal of Radiation Research*, **2017**, 58, 803-808	2.4	4
23	Relative clinical effectiveness of carbon ion radiotherapy: theoretical modelling for H&N tumours. *Journal of Radiation Research*, **2015**, 56, 639-45	2.4	4

22	The Potential Application of Heavy Ion Beams in the Treatment of Arrhythmia: The Role of Radiation-Induced Modulation of Connexin43 and the Sympathetic Nervous System. *International Journal of Particle Therapy*, **2018**, 5, 140-150	1.5	4
21	Hadrontherapy enhanced by combination with heavy atoms: Role of Auger effect in nanoparticles **2016**, 471-503		4
20	Chromosome aberrations in normal human fibroblasts analyzed in G0/G1 and G2/M phases after exposure in G0 to radiation with different linear energy transfer (LET). *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2013**, 756, 101-7	3	3
19	Analysis of complex DNA lesions generated by heavy ion beams. *Nucleic Acids Symposium Series*, **2007**, 221-2		3
18	Cell killing and mutation induction by heavy ion beams. *International Journal of Molecular Medicine*, **2001**, 7, 509-13	4.4	3
17	Scaling parameter of the lethal effect of mammalian cells based on radiation-induced OH radicals: effectiveness of direct action in radiation therapy. *Journal of Radiation Research*, **2021**, 62, 86-93	2.4	3
16	Mutagenic Effect of Three Ion Beams on Rice and Identification of Heritable Mutations by Whole Genome Sequencing. *Plants*, **2020**, 9,	4.5	2
15	Overexpression of Ras-Related C3 Botulinum Toxin Substrate 2 Radiosensitizes Melanoma Cells and. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 5254798	6.7	2
14	ESTIMATION OF RBE VALUES FOR CARBON-ION BEAMS IN THE WIDE DOSE RANGE USING MULTICELLULAR SPHEROIDS. *Radiation Protection Dosimetry*, **2019**, 183, 45-49	0.9	2
13	Comparison of the kinetics of radiation-induced apoptosis in DT40 cells irradiated with low and high doses of X rays. *Radiation Research*, **2010**, 173, 645-50	3.1	2
12	The PCC assay can be used to predict radiosensitivity in biopsy cultures irradiated with different types of radiation. *Oncology Reports*, **2006**, 16, 1293	3.5	2
11	Analysis of DNA damage generated by high-energy particles. *Nucleic Acids Symposium Series*, **2004**, 145-6		2
10	Combination of agents modifying effects in hadrontherapy: modelization of the role of HO□free radicals. *International Journal of Radiation Biology*, **2020**, 96, 622-627	2.9	2
9	Intracellular reactions affecting 2-amino-4-([(11)C]methylthio)butyric acid ([(11)C]methionine) response to carbon ion radiotherapy in C10 glioma cells. *Nuclear Medicine and Biology*, **2009**, 36, 985-91	2.1	1
8	Dose-response effect of charged carbon beam on normal rat retina assessed by electroretinography. *International Journal of Radiation Oncology Biology Physics*, **2010**, 78, 1532-40	4	1
7	??????????????????(Cx43)???????????. *Japanese Journal of Electrocardiology*, **2011**, 31, 140-149	0	1
6	Identification and characterization of inheritable structural variations induced by ion beam radiations in rice. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2021**, 823, 111757	3.3	0
5	Radioprotective activities of beer administration for radiation-induced acute toxicity in mice. *Radiotherapy and Oncology*, **2004**, 73 Suppl 2, S127-9	5.3	

4	8.2.9 Expansion of Heavy-Ion Beam Application Ion Beam Breeding and Non-invasive Arrhythmia Treatment *Radioisotopes*, **2019**, 68, 749-758	0.1
3	Application of Quantum Beam for Cancer Therapy. *IEEJ Transactions on Electronics, Information and Systems*, **2017**, 137, 390-393	0.1
2	Amino acid transport system - A substrate predicts the therapeutic effects of particle radiotherapy. *PLoS ONE*, **2017**, 12, e0173096	3.7
1	Lethal DNA Lesions Caused by Direct and Indirect Actions of X rays are Repaired via Different DSB Repair Pathways under Aerobic and Anoxic Conditions. *Radiation Research*, **2021**, 195, 441-451	3.1