

Yoshiya Furusawa

List of Publications by Year in Descending Order

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

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	Scaling parameter of the lethal effect of mammalian cells based on radiation-induced OH radicals: effectiveness of direct action in radiation therapy. <i>Journal of Radiation Research</i> , 2021 , 62, 86-93	2.4	3
164	Lethal DNA Lesions Caused by Direct and Indirect Actions of X rays are Repaired via Different DSB Repair Pathways under Aerobic and Anoxic Conditions. <i>Radiation Research</i> , 2021 , 195, 441-451	3.1	
163	Identification and characterization of inheritable structural variations induced by ion beam radiations in rice. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2021 , 823, 111757	3.3	0
162	Mutagenic Effect of Three Ion Beams on Rice and Identification of Heritable Mutations by Whole Genome Sequencing. <i>Plants</i> , 2020 , 9,	4.5	2
161	Combination of agents modifying effects in hadrontherapy: modelization of the role of HO [•] free radicals. <i>International Journal of Radiation Biology</i> , 2020 , 96, 622-627	2.9	2
160	Both irradiated and bystander effects link with DNA repair capacity and the linear energy transfer. <i>Life Sciences</i> , 2019 , 222, 228-234	6.8	7
159	Overexpression of Ras-Related C3 Botulinum Toxin Substrate 2 Radiosensitizes Melanoma Cells and. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 5254798	6.7	2
158	ESTIMATION OF RBE VALUES FOR CARBON-ION BEAMS IN THE WIDE DOSE RANGE USING MULTICELLULAR SPHEROIDS. <i>Radiation Protection Dosimetry</i> , 2019 , 183, 45-49	0.9	2
157	8.2.9 Expansion of Heavy-Ion Beam Application [bn Beam Breeding and Non-invasive Arrhythmia Treatment] <i>Radioisotopes</i> , 2019 , 68, 749-758	0.1	
156	Biological effects of carbon ion beams with various LETs on budding yeast <i>Saccharomyces cerevisiae</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2018 , 810, 45-51	3.3	6
155	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. <i>International Journal of Particle Therapy</i> , 2018 , 5, 140-150	1.5	4
154	Changes in arrhythmogenic properties and five-year prognosis after carbon-ion radiotherapy in patients with mediastinum cancer. <i>Annals of Noninvasive Electrocardiology</i> , 2018 , 23,	1.5	6
153	Biological effects of ion beam irradiation on perennial gentian and apple. <i>Plant Biotechnology</i> , 2018 , 35, 249-257	1.3	6
152	Antimetastatic Effects of Carbon-Ion Beams on Malignant Melanomas. <i>Radiation Research</i> , 2018 , 190, 412-423	3.1	7
151	Inducibility of Ventricular Arrhythmia 1 Year Following Treatment with Heavy Ion Irradiation in Dogs with Myocardial Infarction. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2017 , 40, 379-390	1.6	19
150	RAC2-P38 MAPK-dependent NADPH oxidase activity is associated with the resistance of quiescent cells to ionizing radiation. <i>Cell Cycle</i> , 2017 , 16, 113-122	4.7	23
149	Enhanced DNA double-strand break repair of microbeam targeted A549 lung carcinoma cells by adjacent WI38 normal lung fibroblast cells via bi-directional signaling. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017 , 803-805, 1-8	3.3	21

148	Equivalency of the quality of sublethal lesions after photons and high-linear energy transfer ion beams. <i>Journal of Radiation Research</i> , 2017 , 58, 803-808	2.4	4
147	Application of Quantum Beam for Cancer Therapy. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2017 , 137, 390-393	0.1	
146	Amino acid transport system - A substrate predicts the therapeutic effects of particle radiotherapy. <i>PLoS ONE</i> , 2017 , 12, e0173096	3.7	
145	PU-H71, a novel Hsp90 inhibitor, as a potential cancer-specific sensitizer to carbon-ion beam therapy. <i>Journal of Radiation Research</i> , 2016 , 57, 572-575	2.4	14
144	G(2)-M phase-correlative bystander effects are co-mediated by DNA-PKcs and ATM after carbon ion irradiation. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016 , 795, 1-6	3	6
143	Metformin enhances the radiosensitivity of human liver cancer cells to γ rays and carbon ion beams. <i>Oncotarget</i> , 2016 , 7, 80568-80578	3.3	11
142	Hadrontherapy enhanced by combination with heavy atoms: Role of Auger effect in nanoparticles 2016 , 471-503		4
141	Role of isolated and clustered DNA damage and the post-irradiating repair process in the effects of heavy ion beam irradiation. <i>Journal of Radiation Research</i> , 2015 , 56, 446-55	2.4	22
140	Tissue-dependent somaclonal mutation frequencies and spectra enhanced by ion beam irradiation in chrysanthemum. <i>Euphytica</i> , 2015 , 202, 333-343	2.1	13
139	ATR signaling cooperates with ATM in the mechanism of low dose hypersensitivity induced by carbon ion beam. <i>DNA Repair</i> , 2015 , 34, 1-8	4.3	8
138	Dependence of the bystander effect for micronucleus formation on dose of heavy-ion radiation in normal human fibroblasts. <i>Radiation Protection Dosimetry</i> , 2015 , 166, 152-6	0.9	12
137	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. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015 , 793, 41-7	3	18
136	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. <i>DNA Repair</i> , 2015 , 25, 72-83	4.3	19
135	Kill-painting of hypoxic tumours in charged particle therapy. <i>Scientific Reports</i> , 2015 , 5, 17016	4.9	87
134	Co-visualization of DNA damage and ion traversals in live mammalian cells using a fluorescent nuclear track detector. <i>Journal of Radiation Research</i> , 2015 , 56, 360-5	2.4	14
133	DNA Damage Response Proteins and Oxygen Modulate Prostaglandin E2 Growth Factor Release in Response to Low and High LET Ionizing Radiation. <i>Frontiers in Oncology</i> , 2015 , 5, 260	5.3	13
132	Relative clinical effectiveness of carbon ion radiotherapy: theoretical modelling for H&N tumours. <i>Journal of Radiation Research</i> , 2015 , 56, 639-45	2.4	4
131	Induction of DNA-protein cross-links by ionizing radiation and their elimination from the genome. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015 , 771, 45-50	3.3	17

130	Nonhomologous end-joining repair plays a more important role than homologous recombination repair in defining radiosensitivity after exposure to high-LET radiation. <i>Radiation Research</i> , 2014 , 182, 338-44	3.1	46
129	Differential effects of p53 on bystander phenotypes induced by gamma ray and high LET heavy ion radiation. <i>Life Sciences in Space Research</i> , 2014 , 1, 53-9	2.4	17
128	Gadolinium-based nanoparticles to improve the hadrontherapy performances. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1601-8	6	68
127	Effects of shielding on the induction of 53BP1 foci and micronuclei after Fe ion exposures. <i>Journal of Radiation Research</i> , 2014 , 55, 10-6	2.4	9
126	Role of autophagy in high linear energy transfer radiation-induced cytotoxicity to tumor cells. <i>Cancer Science</i> , 2014 , 105, 770-8	6.9	24
125	Enhanced radiobiological effects at the distal end of a clinical proton beam: in vitro study. <i>Journal of Radiation Research</i> , 2014 , 55, 816-22	2.4	50
124	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. <i>Journal of Radiation Research</i> , 2014 , 55, 1028-32	2.4	15
123	Clinical oxygen enhancement ratio of tumors in carbon ion radiotherapy: the influence of local oxygenation changes. <i>Journal of Radiation Research</i> , 2014 , 55, 902-11	2.4	34
122	Relative biological effectiveness of therapeutic proton beams for HSG cells at Japanese proton therapy facilities. <i>Journal of Radiation Research</i> , 2014 , 55, 812-5	2.4	9
121	Simulated studies on the biological effects of space radiation on quiescent human fibroblasts. <i>Advances in Space Research</i> , 2013 , 52, 1314-1319	2.4	6
120	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). <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013 , 756, 101-7	3	3
119	Radiobiological description of the LET dependence of the cell survival of oxic and anoxic cells irradiated by carbon ions. <i>Journal of Radiation Research</i> , 2013 , 54, 18-26	2.4	45
118	Evaluation of SCCVII tumor cell survival in clamped and non-clamped solid tumors exposed to carbon-ion beams in comparison to X-rays. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013 , 756, 146-51	3	23
117	Action spectrum analysis of UVR genotoxicity for skin: the border wavelengths between UVA and UVB can bring serious mutation loads to skin. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 1850-6	4.3	28
116	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. <i>Journal of Radiation Research</i> , 2013 , 54, 1029-35	2.4	12
115	Quantitative proteomic analysis for radiation-induced cell cycle suspension in 92-1 melanoma cell line. <i>Journal of Radiation Research</i> , 2013 , 54, 649-62	2.4	12
114	Microdosimetric calculation of relative biological effectiveness for design of therapeutic proton beams. <i>Journal of Radiation Research</i> , 2013 , 54, 485-93	2.4	49
113	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. <i>Journal of Radiation Research</i> , 2013 , 54, 989-97	2.4	6

112	OH radicals from the indirect actions of X-rays induce cell lethality and mediate the majority of the oxygen enhancement effect. <i>Radiation Research</i> , 2013 , 180, 514-23	3.1	24
111	Cell survival fraction estimation based on the probability densities of domain and cell nucleus specific energies using improved microdosimetric kinetic models. <i>Radiation Research</i> , 2012 , 178, 341-56	3.1	48
110	Depression of p53-independent Akt survival signals in human oral cancer cells bearing mutated p53 gene after exposure to high-LET radiation. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 654-60	3.4	20
109	Detection of DNA-protein crosslinks (DPCs) by novel direct fluorescence labeling methods: distinct stabilities of aldehyde and radiation-induced DPCs. <i>Nucleic Acids Research</i> , 2012 , 40, e143	20.1	30
108	Comment on 'Therapeutic application of metallic nanoparticles combined with particle-induced x-ray emission effect'. <i>Nanotechnology</i> , 2012 , 23, 078001; author reply 078002	3.4	12
107	Comment on Enhanced relative biological effectiveness of proton radiotherapy in tumor cells with internalized gold nanoparticles [Appl. Phys. Lett. 98, 193702 (2011)]. <i>Applied Physics Letters</i> , 2012 , 100, 026101	3.4	6
106	Relation between lineal energy distribution and relative biological effectiveness for photon beams according to the microdosimetric kinetic model. <i>Journal of Radiation Research</i> , 2011 , 52, 75-81	2.4	49
105	Gene expression associated with DNA-dependent protein kinase activity under normoxia, hypoxia, and reoxygenation. <i>Journal of Radiation Research</i> , 2011 , 52, 464-71	2.4	5
104	Radiosensitization by inhibiting survivin in human hepatoma HepG2 cells to high-LET radiation. <i>Journal of Radiation Research</i> , 2011 , 52, 335-41	2.4	10
103	High LET radiation enhances nocodazole induced cell death in HeLa cells through mitotic catastrophe and apoptosis. <i>Journal of Radiation Research</i> , 2011 , 52, 481-9	2.4	7
102	Carbon ion irradiation suppresses metastatic potential of human non-small cell lung cancer A549 cells through the phosphatidylinositol-3-kinase/Akt signaling pathway. <i>Journal of Radiation Research</i> , 2011 , 52, 374-9	2.4	47
101	Visualization of heavy ion tracks by labeling 3'-OH termini of induced DNA strand breaks. <i>Journal of Radiation Research</i> , 2011 , 52, 433-40	2.4	15
100	In vivo radiobiological characterization of proton beam at the National Cancer Center in Korea: effect of the Chk2 mutation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 559-62	4	16
99	Monte Carlo simulation of radial distribution of DNA strand breaks along the C and Ne ion paths. <i>Radiation Protection Dosimetry</i> , 2011 , 143, 186-90	0.9	22
98	Microdosimetric study on influence of low energy photons on relative biological effectiveness under therapeutic conditions using 6 MV linac. <i>Medical Physics</i> , 2011 , 38, 4714-22	4.4	16
97	Effects of carbon ion beam on putative colon cancer stem cells and its comparison with X-rays. <i>Cancer Research</i> , 2011 , 71, 3676-87	10.1	102
96	Cell cycle suspension: a novel process lurking in G ₁ arrest. <i>Cell Cycle</i> , 2011 , 10, 1468-76	4.7	27
95	Analysis of cell-survival fractions for heavy-ion irradiations based on microdosimetric kinetic model implemented in the particle and heavy ion transport code system. <i>Radiation Protection Dosimetry</i> , 2011 , 143, 491-6	0.9	24

94	????????????????(Cx43)?????????. <i>Japanese Journal of Electrocardiology</i> , 2011 , 31, 140-149	0	1
93	Year-long upregulation of connexin43 in rabbit hearts by heavy ion irradiation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1014-21	5.2	34
92	Induction of micronuclei in germinating onion seed root tip cells irradiated with high energy heavy ions. <i>Journal of Radiation Research</i> , 2010 , 51, 315-23	2.4	10
91	Comparison of DNA breaks at entrance channel and Bragg peak induced by fast C6+ ions--influence of the addition of platinum atoms on DNA. <i>Journal of Radiation Research</i> , 2010 , 51, 21-6	2.4	12
90	Comparison of the kinetics of radiation-induced apoptosis in DT40 cells irradiated with low and high doses of X rays. <i>Radiation Research</i> , 2010 , 173, 645-50	3.1	2
89	Treatment planning for a scanned carbon beam with a modified microdosimetric kinetic model. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6721-37	3.8	160
88	Platinum nanoparticles: a promising material for future cancer therapy?. <i>Nanotechnology</i> , 2010 , 21, 851034	3.4	283
87	Rejoining kinetics of G1-PCC breaks induced by different heavy-ion beams with a similar LET value. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 701, 47-51	3	8
86	Apparent absence of a proton beam dose rate effect and possible differences in RBE between Bragg peak and plateau. <i>Medical Physics</i> , 2010 , 37, 5376-81	4.4	31
85	Dose-response effect of charged carbon beam on normal rat retina assessed by electroretinography. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1532-40	4	1
84	Regulation of ATM in DNA double strand break repair accounts for the radiosensitivity in human cells exposed to high linear energy transfer ionizing radiation. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009 , 670, 15-23	3.3	33
83	Carbon-ion beam irradiation effectively suppresses migration and invasion of human non-small-cell lung cancer cells. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 475-81	4	72
82	ATM-dependent hyper-radiosensitivity in mammalian cells irradiated by heavy ions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 235-43	4	31
81	LET dependence of the formation of oxidative damage 8-hydroxy-2'-deoxyguanosine (8-OHdG) in 2'-deoxyguanosine aqueous solution irradiated with heavy ions. <i>Radiation Physics and Chemistry</i> , 2009 , 78, 1207-1210	2.5	6
80	Comparison of biological effectiveness of carbon-ion beams in Japan and Germany. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 1545-51	4	50
79	Contributions of direct and indirect actions in cell killing by high-LET radiations. <i>Radiation Research</i> , 2009 , 171, 212-8	3.1	113
78	Intracellular reactions affecting 2-amino-4-[[¹¹ C]methylthio]butyric acid ([[¹¹ C]methionine) response to carbon ion radiotherapy in C10 glioma cells. <i>Nuclear Medicine and Biology</i> , 2009 , 36, 985-91	2.1	1
77	Radioprotection by DMSO in nitrogen-saturated mammalian cells exposed to helium ion beams. <i>Radiation Physics and Chemistry</i> , 2009 , 78, 1175-1178	2.5	12

76	Two major factors involved in the reverse dose-rate effect for somatic mutation induction are the cell cycle position and LET value. <i>Journal of Radiation Research</i> , 2009 , 50, 441-8	2.4	8
75	High LET radiation enhances apoptosis in mutated p53 cancer cells through Caspase-9 activation. <i>Cancer Science</i> , 2008 , 99, 1455-60	6.9	37
74	High LET heavy ion radiation induces lower numbers of initial chromosome breaks with minimal repair than low LET radiation in normal human cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008 , 652, 95-101	3	26
73	Dosimetry for a microbeam array generated by synchrotron radiation at SPring-8. <i>European Journal of Radiology</i> , 2008 , 68, S114-7	4.7	6
72	Quantitative analysis of isolated and clustered DNA damage induced by gamma-rays, carbon ion beams, and iron ion beams. <i>Journal of Radiation Research</i> , 2008 , 49, 133-46	2.4	59
71	Absence of Ku70 gene obliterates X-ray-induced lacZ mutagenesis of small deletions in mouse tissues. <i>Radiation Research</i> , 2008 , 170, 216-23	3.1	8
70	Effectiveness of monoenergetic and spread-out bragg peak carbon-ions for inactivation of various normal and tumour human cell lines. <i>Journal of Radiation Research</i> , 2008 , 49, 597-607	2.4	48
69	The difference in LET and ion species dependence for induction of initially measured and non-rejoined chromatin breaks in normal human fibroblasts. <i>Radiation Research</i> , 2008 , 170, 163-71	3.1	30
68	DNA damage recognition proteins localize along heavy ion induced tracks in the cell nucleus. <i>Journal of Radiation Research</i> , 2008 , 49, 645-52	2.4	32
67	The radiosensitivity of total and quiescent cell populations in solid tumors to 290 MeV/u carbon ion beam irradiation in vivo. <i>Acta Oncologica</i> , 2008 , 47, 1087-93	3.2	11
66	Gene expression analysis in human malignant melanoma cell lines exposed to carbon beams. <i>International Journal of Radiation Biology</i> , 2008 , 84, 299-314	2.9	32
65	Biophysical calculation of cell survival probabilities using amorphous track structure models for heavy-ion irradiation. <i>Physics in Medicine and Biology</i> , 2008 , 53, 37-59	3.8	105
64	Radiobiological characterization of proton beam at the National Cancer Center in Korea. <i>Journal of Radiation Research</i> , 2008 , 49, 509-15	2.4	19
63	Heavy-ion microbeam system at JAEA-Takasaka for microbeam biology. <i>Journal of Radiation Research</i> , 2008 , 49, 71-82	2.4	54
62	Time course and spacial distribution of UV effects on human skin in organ culture. <i>Journal of Radiation Research</i> , 2008 , 49, 269-77	2.4	10
61	Responses of total and quiescent cell populations in solid tumors to carbon ion beam irradiation (290 MeV/u) in vivo. <i>Radiation Medicine</i> , 2008 , 26, 270-7		5
60	Radiobiologic significance of response of intratumor quiescent cells in vivo to accelerated carbon ion beams compared with gamma-rays and reactor neutron beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 221-8	4	21
59	Effect of gap junctional intercellular communication on radiation responses in neoplastic human cells. <i>Radiation Research</i> , 2007 , 167, 283-8	3.1	8

58	A new method for the simultaneous detection of mammalian cells and ion tracks on a surface of CR-39. <i>Journal of Radiation Research</i> , 2007 , 48, 255-61	2.4	15
57	Biological intercomparison using gut crypt survivals for proton and carbon-ion beams. <i>Journal of Radiation Research</i> , 2007 , 48 Suppl A, A75-80	2.4	19
56	Analysis of complex DNA lesions generated by heavy ion beams. <i>Nucleic Acids Symposium Series</i> , 2007 , 221-2		3
55	Repair of skin damage during fractionated irradiation with gamma rays and low-LET carbon ions. <i>Journal of Radiation Research</i> , 2006 , 47, 167-74	2.4	12
54	Heavy ion radiation up-regulates Cx43 and ameliorates arrhythmogenic substrates in hearts after myocardial infarction. <i>Cardiovascular Research</i> , 2006 , 72, 412-21	9.9	52
53	Microdosimetric measurements and estimation of human cell survival for heavy-ion beams. <i>Radiation Research</i> , 2006 , 166, 629-38	3.1	188
52	Contribution of indirect action to radiation-induced mammalian cell inactivation: dependence on photon energy and heavy-ion LET. <i>Radiation Research</i> , 2006 , 165, 703-12	3.1	63
51	DNA fragmentation induced in human fibroblasts by accelerated (56)Fe ions of differing energies. <i>Radiation Research</i> , 2006 , 165, 713-20	3.1	20
50	Arpc1b gene is a candidate prediction marker for choroidal malignant melanomas sensitive to radiotherapy. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 2300-4		13
49	Analysis of cytogenetic damage in rice seeds induced by energetic heavy ions on-ground and after spaceflight. <i>Journal of Radiation Research</i> , 2006 , 47, 273-8	2.4	24
48	The PCC assay can be used to predict radiosensitivity in biopsy cultures irradiated with different types of radiation. <i>Oncology Reports</i> , 2006 , 16, 1293	3.5	2
47	Protective effects of melatonin against low- and high-LET irradiation. <i>Journal of Radiation Research</i> , 2006 , 47, 175-81	2.4	27
46	Involvement of gap junctional intercellular communication in the bystander effect induced by broad-beam or microbeam heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 251, 177-181	1.2	9
45	Repair kinetics of DNA-DSB induced by X-rays or carbon ions under oxic and hypoxic conditions. <i>Journal of Radiation Research</i> , 2005 , 46, 325-32	2.4	77
44	Biological gain of carbon-ion radiotherapy for the early response of tumor growth delay and against early response of skin reaction in mice. <i>Journal of Radiation Research</i> , 2005 , 46, 51-7	2.4	76
43	Number of Fe ion traversals through a cell nucleus for mammalian cell inactivation near the bragg peak. <i>Journal of Radiation Research</i> , 2005 , 46, 415-24	2.4	13
42	Exploration of "over kill effect" of high-LET Ar- and Fe-ions by evaluating the fraction of non-hit cell and interphase death. <i>Journal of Radiation Research</i> , 2005 , 46, 343-50	2.4	27
41	Irradiation system of ions (H ¹⁶ e) for biological studies near the Bragg peak. <i>Review of Scientific Instruments</i> , 2005 , 76, 114302	1.7	15

40	Particle irradiation suppresses metastatic potential of cancer cells. <i>Cancer Research</i> , 2005 , 65, 113-20	10.1	131
39	Analysis of DNA damage generated by high-energy particles. <i>Nucleic Acids Symposium Series</i> , 2004 , 145-6		2
38	Bystander effect in lymphoma cells vicinal to irradiated neoplastic epithelial cells: nitric oxide is involved. <i>Journal of Radiation Research</i> , 2004 , 45, 97-103	2.4	38
37	High-LET radiation enhanced apoptosis but not necrosis regardless of p53 status. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 60, 591-7	4	80
36	Action spectra of apoptosis induction and reproductive cell death in L5178Y cells in the UV-B region. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 268-72	4.2	7
35	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. <i>Radiation Research</i> , 2004 , 162, 433-41	3.1	18
34	Radioprotective activities of beer administration for radiation-induced acute toxicity in mice. <i>Radiotherapy and Oncology</i> , 2004 , 73 Suppl 2, S127-9	5.3	
33	Cell biological basis for combination radiotherapy using heavy-ion beams and high-energy X-rays. <i>Radiotherapy and Oncology</i> , 2004 , 71, 207-11	5.3	22
32	Microbeams of heavy charged particles. <i>Uchu Seibutsu Kagaku</i> , 2004 , 18, 235-40	1	31
31	Truly incomplete and complex exchanges in prematurely condensed chromosomes of human fibroblasts exposed in vitro to energetic heavy ions. <i>Radiation Research</i> , 2003 , 160, 418-24	3.1	32
30	Bystander effect on cell growth stimulation in neoplastic HSGc cells induced by heavy-ion irradiation. <i>Radiation and Environmental Biophysics</i> , 2003 , 42, 183-7	2	43
29	Comparative analysis of G2 arrest after irradiation with 75 keV carbon-ion beams and ¹³⁷ Cs gamma-rays in a human lymphoblastoid cell line. <i>Cancer Detection and Prevention</i> , 2003 , 27, 222-8		11
28	Bystander effect induced by counted high-LET particles in confluent human fibroblasts: a mechanistic study. <i>FASEB Journal</i> , 2003 , 17, 1422-7	0.9	124
27	Sper/NO-induced reversible proliferation inhibition and cycle arrests associated with a micronucleus induction in HSG cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2003 , 8, 83-8	5	9
26	Role of gap junctional intercellular communication in radiation-induced bystander effects in human fibroblasts. <i>Radiation Research</i> , 2003 , 160, 318-23	3.1	96
25	Heavy ion irradiation inhibits in vitro angiogenesis even at sublethal dose. <i>Cancer Research</i> , 2003 , 63, 4253-7	10.1	48
24	Relative biological effectiveness of 290 MeV/u carbon ions for the growth delay of a radioresistant murine fibrosarcoma. <i>Journal of Radiation Research</i> , 2002 , 43, 247-55	2.4	37
23	Influence of the shielding on the induction of chromosomal aberrations in human lymphocytes exposed to high-energy iron ions. <i>Journal of Radiation Research</i> , 2002 , 43 Suppl, S107-11	2.4	20

22	Induction of chromatin damage and distribution of isochromatid breaks in human fibroblast cells exposed to heavy ions. <i>Journal of Radiation Research</i> , 2002 , 43 Suppl, S169-73	2.4	8
21	Relationship between aberration yield and mitotic delay in human lymphocytes exposed to 200 MeV/u Fe-ions or X-rays. <i>Journal of Radiation Research</i> , 2002 , 43 Suppl, S175-9	2.4	40
20	Models for mixed irradiation with a 'reciprocal-time' pattern of the repair function. <i>Journal of Radiation Research</i> , 2002 , 43, 257-67	2.4	6
19	Analysis of unrejoined chromosomal breakage in human fibroblast cells exposed to low- and high-LET radiation. <i>Journal of Radiation Research</i> , 2002 , 43 Suppl, S181-5	2.4	13
18	Effect of a hypoxic cell sensitizer doranidazole on the radiation-induced apoptosis of mouse L5178Y lymphoma cells. <i>Journal of Radiation Research</i> , 2002 , 43, 161-6	2.4	13
17	Preclinical biological assessment of proton and carbon ion beams at Hyogo Ion Beam Medical Center. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 928-38	4	107
16	Radiation-induced growth inhibition in transplanted human tongue carcinomas with different p53 gene status. <i>Anticancer Research</i> , 2002 , 22, 2037-43	2.3	18
15	Cell killing and mutation induction by heavy ion beams. <i>International Journal of Molecular Medicine</i> , 2001 , 7, 509-13	4.4	3
14	Medium-mediated bystander effects on HSG cells co-cultivated with cells irradiated by X-rays or a 290 MeV/u carbon beam. <i>Journal of Radiation Research</i> , 2001 , 42, 305-16	2.4	56
13	Relative biological effectiveness of the 235 MeV proton beams at the National Cancer Center Hospital East. <i>Journal of Radiation Research</i> , 2001 , 42, 79-89	2.4	60
12	Time course of reoxygenation in experimental murine tumors after carbon-beam and X-ray irradiation. <i>Journal of Radiation Research</i> , 2001 , 42, 131-41	2.4	15
11	X-rays vs. carbon-ion tumor therapy: cytogenetic damage in lymphocytes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 47, 793-8	4	54
10	The dependence of p53 on the radiation enhancement of thermosensitivity at different let. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 47, 489-94	4	25
9	LET dependency of heavy-ion induced apoptosis in V79 cells. <i>Journal of Radiation Research</i> , 2000 , 41, 163-75	2.4	53
8	Cell cycle and LET dependence for radiation-induced mutation: a possible mechanism for reversed dose-rate effect. <i>Journal of Radiation Research</i> , 1999 , 40 Suppl, 45-52	2.4	7
7	Biophysical characteristics of HIMAC clinical irradiation system for heavy-ion radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999 , 44, 201-10	4	641
6	Association between G ₂ -Phase Block and Repair of Radiation-Induced Chromosome Fragments in Human Lymphocytes. <i>Radiation Research</i> , 1999 , 151, 670	3.1	62
5	Relative biological effectiveness of accelerated heavy ions for induction of morphological transformation in Syrian hamster embryo cells. <i>Journal of Radiation Research</i> , 1998 , 39, 193-201	2.4	29

4	Dependence of Induction of Interphase Death of Chinese Hamster Ovary Cells Exposed to Accelerated Heavy Ions on Linear Energy Transfer. <i>Radiation Research</i> , 1997 , 148, 449	3.1	16
3	Response of Mouse Intestine after Single and Fractionated Irradiation with Accelerated Carbon Ions with a Spread-Out Bragg Peak. <i>Radiation Research</i> , 1997 , 148, 168	3.1	26
2	Irradiation of Mixed Beam and Design of Spread-Out Bragg Peak for Heavy-Ion Radiotherapy. <i>Radiation Research</i> , 1997 , 147, 78	3.1	282
1	Relationship between LET and RBE values for <i>Escherichia coli</i> determined using carbon ion beams from the TIARA cyclotron and HIMAC synchrotron. <i>Journal of General and Applied Microbiology</i> , 1997 , 43, 175-7	1.5	5