

Teruaki Konishi

List of Publications by Year in descending order

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94
papers

1,254
citations

394286

19
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501076

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docs citations

95
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbeam Irradiation Facilities for Radiobiology in Japan and China. <i>Journal of Radiation Research</i> , 2009, 50, A29-A47.	0.8	49
2	Damaging and protective bystander cross-talk between human lung cancer and normal cells after proton microbeam irradiation. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 763-764, 39-44.	0.4	47
3	SPICE-NIRS Microbeam: a focused vertical system for proton irradiation of a single cell for radiobiological research. <i>Journal of Radiation Research</i> , 2013, 54, 736-747.	0.8	45
4	Chromothripsis-like chromosomal rearrangements induced by ionizing radiation using proton microbeam irradiation system. <i>Oncotarget</i> , 2016, 7, 10182-10192.	0.8	44
5	Genetic changes in progeny of bystander human fibroblasts after microbeam irradiation with X-rays, protons or carbon ions: The relevance to cancer risk. <i>International Journal of Radiation Biology</i> , 2015, 91, 62-70.	1.0	37
6	Radiation chemical yields for loss of ether and carbonate ester bonds in PADC films exposed to proton and heavy ion beams. <i>Radiation Measurements</i> , 2011, 46, 1147-1153.	0.7	36
7	The differential role of human macrophage in triggering secondary bystander effects after either gamma-ray or carbon beam irradiation. <i>Cancer Letters</i> , 2015, 363, 92-100.	3.2	36
8	Cellular localization of uranium in the renal proximal tubules during acute renal uranium toxicity. <i>Journal of Applied Toxicology</i> , 2015, 35, 1594-1600.	1.4	34
9	Adaptive Response in Zebrafish Embryos Induced Using Microbeam Protons as Priming Dose and X-ray Photons as Challenging Dose. <i>Journal of Radiation Research</i> , 2010, 51, 657-664.	0.8	31
10	Bystander Effect between Zebrafish Embryos in Vivo Induced by High-Dose X-rays. <i>Environmental Science & Technology</i> , 2013, 47, 6368-6376.	4.6	28
11	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.	0.4	27
12	Validating α -particle emission from ^{211}At -labeled antibodies in single cells for cancer radioimmunotherapy using CR-39 plastic nuclear track detectors. <i>PLoS ONE</i> , 2017, 12, e0178472.	1.1	27
13	Novel function of HATs and HDACs in homologous recombination through acetylation of human RAD52 at double-strand break sites. <i>PLoS Genetics</i> , 2018, 14, e1007277.	1.5	25
14	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, 360-365.	0.8	24
15	Triphasic low-dose response in zebrafish embryos irradiated by microbeam protons. <i>Journal of Radiation Research</i> , 2012, 53, 475-81.	0.8	24
16	Calibration of CR-39 with atomic force microscope for the measurement of short range tracks from proton-induced target fragmentation reactions. <i>Radiation Measurements</i> , 2013, 50, 232-236.	0.7	23
17	Dose distribution of carbon ions in air assessed using imaging plates and ionization chamber. <i>Radiation Measurements</i> , 2005, 40, 384-388.	0.7	22
18	Progress report of the single particle irradiation system to cell (SPICE). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 81-84.	0.6	22

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19	Elemental imaging of kidneys of adult rats exposed to uranium acetate. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2167-2170.	0.6	22
20	Upregulation of NRF2 through autophagy/ERK 1/2 ameliorates ionizing radiation induced cell death of human osteosarcoma U-2 OS. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 813, 10-17.	0.9	20
21	Differential effects of p53 on bystander phenotypes induced by gamma ray and high LET heavy ion radiation. Life Sciences in Space Research, 2014, 1, 53-59.	1.2	19
22	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, 255-261.	0.8	18
23	Role of Endoplasmic Reticulum and Mitochondrion in Proton Microbeam Radiation-Induced Bystander Effect. Radiation Research, 2019, 193, 63.	0.7	18
24	Enhancement of Radiosensitivity by Eurycomalactone in Human NSCLC Cells Through G ₂ /M Cell Cycle Arrest and Delayed DNA Double-Strand Break Repair. Oncology Research, 2020, 28, 161-175.	0.6	18
25	Significant changes in yields of 7-hydroxy-coumarin-3-carboxylic acid produced under FLASH radiotherapy conditions. RSC Advances, 2020, 10, 38709-38714.	1.7	18
26	Irradiation system of ions (H ⁺ /Xe) for biological studies near the Bragg peak. Review of Scientific Instruments, 2005, 76, 114302.	0.6	17
27	Visualization of Heavy Ion Tracks by Labeling 3'-OH Termini of Induced DNA Strand Breaks. Journal of Radiation Research, 2011, 52, 433-440.	0.8	17
28	Triphasic Low-dose Response in Zebrafish Embryos Irradiated by Microbeam Protons. Journal of Radiation Research, 2012, , .	0.8	17
29	On the mechanism of the sensitization of PADC (poly(allyl diglycol carbonate)) track detectors by carbon dioxide treatment. Radiation Measurements, 2013, 59, 23-29.	0.7	17
30	High-resolution nuclear track mapping in detailed cellular histology using CR-39 with the contact microscopy technique. Radiation Measurements, 2005, 40, 283-288.	0.7	16
31	Biological studies using mammalian cell lines and the current status of the microbeam irradiation system, SPICE. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2171-2175.	0.6	16
32	Proliferation and differentiation of neural stem cells irradiated with X-rays in logarithmic growth phase. Neuroscience Research, 2012, 73, 263-268.	1.0	16
33	Rescue of Targeted Nonstem-Like Cells from Bystander Stem-Like Cells in Human Fibrosarcoma HT1080. Radiation Research, 2015, 184, 334.	0.7	15
34	DNA strand break induction of aqueous plasmid DNA exposed to 30 MeV protons at ultra-high dose rate. Journal of Radiation Research, 2022, 63, 255-260.	0.8	15
35	Number of Fe Ion Traversals Through a Cell Nucleus for Mammalian Cell Inactivation Near the Bragg Peak. Journal of Radiation Research, 2005, 46, 415-424.	0.8	14
36	Radiation-Induced Long-Lived Extracellular Radicals do not Contribute to Measurement of Intracellular Reactive Oxygen Species Using the Dichlorofluorescein Method. Radiation Research, 2008, 169, 469-473.	0.7	14

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37	Specifications of a neutron exposure accelerator system for biological effects experiments (NASBEE) in NIRS. Radiation Physics and Chemistry, 2009, 78, 1216-1219.	1.4	14
38	Thresholds of Etchable Track Formation and Chemical Damage Parameters in Poly(ethylene Terephthalate) Films at Stopping Powers Ranging from 10 to 12,000 keV/Å μ m. Japanese Journal of Applied Physics, 2012, 51, 056301.	0.8	14
39	Vacuum effects on the radiation chemical yields in PADC films exposed to gamma rays and heavy ions. Radiation Measurements, 2013, 50, 97-102.	0.7	14
40	Applicability of Polyimide Films as Etched-Track Detectors for Ultra-Heavy Cosmic Ray Components. Applied Physics Express, 2013, 6, 046401.	1.1	14
41	Evidence of Local Concentration of ^{211}At -Particles from ^{211}At -Labeled Antibodies in Liver Metastasis Tissue. Journal of Nuclear Medicine, 2019, 60, 497-501.	2.8	14
42	The threshold number of protons to induce an adaptive response in zebrafish embryos. Journal of Radiological Protection, 2013, 33, 91-100.	0.6	13
43	Neutron induced bystander effect among zebrafish embryos. Radiation Physics and Chemistry, 2015, 117, 153-159.	1.4	13
44	Nuclear factor (erythroid-derived 2)-like 2 antioxidative response mitigates cytoplasmic radiation-induced DNA double-strand breaks. Cancer Science, 2019, 110, 686-696.	1.7	13
45	RUBIDIUM DISTRIBUTION IN KIDNEYS OF IMMATURE RATS. International Journal of PIXE, 2009, 19, 39-45.	0.4	12
46	Greater Radiation Chemical Yields for Losses of Ether and Carbonate Ester Bonds at Lower Stopping Powers along Heavy Ion Tracks in Poly(allyl diglycol carbonate) Films. Applied Physics Express, 2012, 5, 086401.	1.1	11
47	Mass spectrometry analysis of etch products from CR-39 plastic irradiated by heavy ions. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 229-232.	0.6	11
48	On the use of CR-39 PNTD with AFM analysis in measuring proton-induced target fragmentation particles. Nuclear Instruments & Methods in Physics Research B, 2015, 349, 163-168.	0.6	11
49	Development of a real-time beam current monitoring system for microbeam scanning-PIXE analysis using a ceramic channel electron multiplier. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2032-2035.	0.6	10
50	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.	0.8	10
51	Applicability of the polyimide films as an SSNTD material. Radiation Measurements, 2013, 50, 16-21.	0.7	9
52	Target irradiation induced bystander effects between stem-like and non stem-like cancer cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 773, 43-47.	0.4	9
53	Emerging Role of Secondary Bystander Effects Induced by Fractionated Proton Microbeam Radiation. Radiation Research, 2018, 191, 211.	0.7	9
54	Both irradiated and bystander effects link with DNA repair capacity and the linear energy transfer. Life Sciences, 2019, 222, 228-234.	2.0	9

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55	EVALUATION OF PRESSED POWDERS AND THIN SECTION STANDARDS FOR MULTI-ELEMENTAL ANALYSIS BY CONVENTIONAL AND MICRO-PIXE ANALYSIS. <i>International Journal of PIXE</i> , 2010, 20, 21-28.	0.4	8
56	G2-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.	0.9	8
57	Impact of Co-Culturing with Fractionated Carbon-Ion-Irradiated Cancer Cells on Bystander Normal Cells and Their Progeny. <i>Radiation Research</i> , 2017, 188, 335-341.	0.7	8
58	Detection of alpha and ^7Li particles from $^{10}\text{B}(n, \alpha)^7\text{Li}$ reactions using a combination of CR-39 nuclear track detector and potassium hydroxide-ethanol-water solution in accelerator-based neutron fields. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 467, 9-12.	0.6	8
59	Non-induction of radioadaptive response in zebrafish embryos by neutrons. <i>Journal of Radiation Research</i> , 2016, 57, 210-219.	0.8	7
60	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.	0.8	7
61	IMAGING URANIUM DISTRIBUTION ON RAT KIDNEY SECTIONS THROUGH DETECTION OF ALPHA TRACKS USING CR-39 PLASTIC NUCLEAR TRACK DETECTOR. <i>Radiation Protection Dosimetry</i> , 2019, 183, 242-246.	0.4	7
62	BYSTANDER WI-38 CELLS MODULATE DNA DOUBLE-STRAND BREAK REPAIR IN MICROBEAM-TARGETED A549 CELLS THROUGH GAP JUNCTION INTERCELLULAR COMMUNICATION. <i>Radiation Protection Dosimetry</i> , 2019, 183, 142-146.	0.4	7
63	Cell lines of the same anatomic site and histologic type show large variability in intrinsic radiosensitivity and relative biological effectiveness to protons and carbon ions. <i>Medical Physics</i> , 2021, 48, 3243-3261.	1.6	7
64	Single particle irradiation system to cell (SPICE) at NIRS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 210, 292-295.	0.6	6
65	Effect of Carbon-Ion Radiation on Drug Transporters Organic Anion Transporting Polypeptides in Breast Cancer Cells. <i>Radiation Research</i> , 2017, 187, 689-700.	0.7	6
66	Radiation quality effects alteration in COX-2 pathway to trigger radiation-induced bystander response in A549 lung carcinoma cells. <i>Journal of Radiation Research</i> , 2018, 59, 754-759.	0.8	6
67	Polyethylene moderator optimized for increasing thermal neutron flux in the NASBEE accelerator-based neutron field. <i>Radiation Measurements</i> , 2020, 137, 106358.	0.7	6
68	Cytoplasmic Radiation Induced Radio-Adaptive Response in Human Lung Fibroblast WI-38 Cells. <i>Radiation Research</i> , 2020, 194, 288.	0.7	6
69	EVALUATION OF THIN SECTION STANDARDS FOR LOCAL ANALYSIS OF LIGHT ELEMENTS BY MICRO-PIXE ANALYSIS. <i>International Journal of PIXE</i> , 2011, 21, 25-30.	0.4	5
70	Electrical properties of carbon-nanotube-network transistors in air after gamma irradiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 297-302.	1.3	5
71	Overexpression of Ras-Related C3 Botulinum Toxin Substrate 2 Radiosensitizes Melanoma Cells <i>In Vitro</i> and <i>In Vivo</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.	1.9	5
72	Micro-PIXE analysis system at NIRS-electrostatic accelerator facility for various applications. <i>International Journal of PIXE</i> , 2015, 25, 217-225.	0.4	5

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73	Enhanced DNA double strand break repair triggered by microbeam irradiation induced cytoplasmic damage. <i>Journal of Radiation and Cancer Research</i> , 2018, 9, 183.	0.0	5
74	Discrimination of hydroxyl radical yields due to thermal neutrons, fast neutrons, and gamma rays in accelerator-based neutron fields. <i>Radiation Physics and Chemistry</i> , 2020, 173, 108889.	1.4	4
75	Thresholds of Etchable Track Formation and Chemical Damage Parameters in Poly(ethylene Terephthalate) Films with Powers Ranging from 10 to 12,000 keV/Å ² . <i>Japanese Journal of Applied Physics</i> , 2012, 51, 056301.	0.784314	4
76	Hypoxia and Proton microbeam: Role of Gap Junction Intercellular Communication in Inducing Bystander Responses on Human Lung Cancer Cells and Normal Cells. <i>Radiation Research</i> , 2022, , .	0.7	4
77	CLIC4 regulates radioresistance of nasopharyngeal carcinoma by iNOS after ¹³ C-rays but not carbon ions irradiation. <i>American Journal of Cancer Research</i> , 2020, 10, 1400-1415.	1.4	4
78	Roles of nitric oxide in adaptive response induced in zebrafish embryos in vivo by microbeam protons. <i>Journal of Radiation Research</i> , 2014, 55, 1114-1114.	0.8	3
79	Analysis of SPICE microbeam size using fluorescent nuclear track detector (FNTD). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 453, 9-14.	0.6	3
80	Biologic Impact of Different Ultra-Low-Fluence Irradiations in Human Fibroblasts. <i>Life</i> , 2020, 10, 154.	1.1	3
81	DEVELOPMENT OF SAMPLE PREPARATION METHOD FOR ENGINE LUBRICATING OIL ANALYSIS USING IN-AIR PIXE. <i>International Journal of PIXE</i> , 2008, 18, 47-52.	0.4	2
82	Uptake of CDDP-containing Polymeric Micelles by Cells Using Particle Induced X-Ray Emission. <i>Journal of Radiation Research</i> , 2011, 52, 193-198.	0.8	2
83	Simultaneous visualization of contact microscopic image and energetic charged particle tracks and its application to medicine. , 2004, , .		1
84	Micro-collimators fabricated by chemical etching of thin polyallyldiglycol carbonate polymer films exposed to oxygen ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 631, 6-11.	0.7	1
85	Total Ionizing Dose Effects in Carbon Nanotube Network Transistors. , 2015, , .		1
86	DOSE-RATE AND CELL-KILLING SENSITIVITY OF HIGH-LINEAR ENERGY TRANSFER ION BEAM. <i>Radiation Protection Dosimetry</i> , 2019, 183, 219-222.	0.4	1
87	Electrical responses of a carbon nanotube thin-film transistor to MeV proton irradiation in air. <i>Radiation Effects and Defects in Solids</i> , 2020, 175, 440-449.	0.4	1
88	Single-particle irradiation system to cell at National Institute of Radiological Sciences. <i>International Congress Series</i> , 2003, 1258, 281-285.	0.2	0
89	Effects of X-irradiation on proliferation and differentiation of neural stem cells derived from mouse embryonic stem cells. <i>Neuroscience Research</i> , 2010, 68, e243-e244.	1.0	0
90	A correlation of long term effects and radiation quality in the progeny of bystander cells after microbeam radiations: The experimental study of radiotherapy for cancer risk mitigation. <i>Journal of Physics: Conference Series</i> , 2017, 860, 012026.	0.3	0

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91	PB-06 Advanced microbeam irradiation system for single cell analysis of defensive cellular response against radiation. <i>Microscopy (Oxford, England)</i> , 2019, 68, i48-i48.	0.7	0
92	Enhanced Cell Inactivation and Double-Strand Break Induction in V79 Chinese Hamster Cells by Monochromatic X-Rays at Phosphorus K-Shell Absorption Peak. <i>Quantum Beam Science</i> , 2020, 4, 38.	0.6	0
93	Abstract 3869: Exploration of mechanisms for chromothripsis by irradiation. , 2015, , .		0
94	Abstract 1815: Bystander effect and genomic instability in human cells and their progeny after irradiation with X rays, protons or carbon ions: role of gap junction communication. , 2015, , .		0