

Takeji Sakae

List of Publications by Year in descending order

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papers

651
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567281

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54
docs citations

54
times ranked

875
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of the physical and RBE-weighted dose estimator based on PHITS coupled with a microdosimetric kinetic model for proton therapy. <i>Journal of Radiation Research</i> , 2018, 59, 91-99.	1.6	65
2	Template-Free Fabrication of Mesoporous Alumina Nanospheres Using Post-Synthesis Water-Ethanol Treatment of Monodispersed Aluminium Glycerate Nanospheres for Molybdenum Adsorption. <i>Small</i> , 2018, 14, e1800474.	10.0	50
3	Mesoporous Alumina as an Effective Adsorbent for Molybdenum (Mo) toward Instant Production of Radioisotope for Medical Use. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1174-1179.	3.2	49
4	Molybdenum Adsorption Properties of Alumina-Embedded Mesoporous Silica for Medical Radioisotope Production. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 195-200.	3.2	42
5	Dose distribution resulting from changes in aeration of nasal cavity or paranasal sinus cancer in the proton therapy. <i>Radiotherapy and Oncology</i> , 2014, 113, 72-76.	0.6	30
6	Weight-loss-independent benefits of exercise on liver steatosis and stiffness in Japanese men with NAFLD. <i>JHEP Reports</i> , 2021, 3, 100253.	4.9	28
7	Neutron spectral fluence measurements using a Bonner sphere spectrometer in the development of the iBNCT accelerator-based neutron source. <i>Applied Radiation and Isotopes</i> , 2017, 127, 47-51.	1.5	26
8	Novel real-time tumor-contouring method using deep learning to prevent mistracking in X-ray fluoroscopy. <i>Radiological Physics and Technology</i> , 2018, 11, 43-53.	1.9	26
9	Histone Deacetylase Inhibitor Induced Radiation Sensitization Effects on Human Cancer Cells after Photon and Hadron Radiation Exposure. <i>International Journal of Molecular Sciences</i> , 2018, 19, 496.	4.1	26
10	Development of beryllium-based neutron target system with three-layer structure for accelerator-based neutron source for boron neutron capture therapy. <i>Applied Radiation and Isotopes</i> , 2015, 106, 78-83.	1.5	25
11	Estimation of relative biological effectiveness for boron neutron capture therapy using the PHITS code coupled with a microdosimetric kinetic model. <i>Journal of Radiation Research</i> , 2015, 56, 382-390.	1.6	24
12	Development of LINAC-Based Neutron Source for Boron Neutron Capture Therapy in University of Tsukuba. <i>Plasma and Fusion Research</i> , 2018, 13, 2406006-2406006.	0.7	24
13	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, 1028-1032.	1.6	21
14	Multi-layer energy filter for realizing conformal irradiation in charged particle therapy. <i>Medical Physics</i> , 2000, 27, 368-373.	3.0	19
15	Biomolecule-Assisted Synthesis of Hierarchical Multilayered Boehmite and Alumina Nanosheets for Enhanced Molybdenum Adsorption. <i>Chemistry - A European Journal</i> , 2019, 25, 4843-4855.	3.3	16
16	Technical Considerations for Noncoplanar Proton-Beam Therapy of Patients with Tumors Proximal to the Optic Nerve. <i>Strahlentherapie Und Onkologie</i> , 2010, 186, 36-39.	2.0	14
17	Verification for dose estimation performance of a Monte-Carlo based treatment planning system in University of Tsukuba. <i>Applied Radiation and Isotopes</i> , 2020, 166, 109222.	1.5	14
18	DEVELOPMENT OF A MULTIMODAL MONTE CARLO BASED TREATMENT PLANNING SYSTEM. <i>Radiation Protection Dosimetry</i> , 2018, 180, 286-290.	0.8	13

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19	Relative biological effectiveness of therapeutic proton beams for HSG cells at Japanese proton therapy facilities. <i>Journal of Radiation Research</i> , 2014, 55, 812-815.	1.6	11
20	Evaluation of the characteristics of the neutron beam of a linac-based neutron source for boron neutron capture therapy. <i>Applied Radiation and Isotopes</i> , 2020, 165, 109246.	1.5	11
21	The A Body Shape Index Might Be a Stronger Predictor of Chronic Kidney Disease Than BMI in a Senior Population. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12874.	2.6	11
22	Cardiorespiratory fitness is strongly linked to metabolic syndrome among physical fitness components: a retrospective cross-sectional study. <i>Journal of Physiological Anthropology</i> , 2020, 39, 30.	2.6	10
23	Relationships of Fat and Muscle Mass with Chronic Kidney Disease in Older Adults: A Cross-Sectional Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9124.	2.6	10
24	Verification of nuclear data for the Tsukuba plan, a newly developed treatment planning system for boron neutron capture therapy. <i>Applied Radiation and Isotopes</i> , 2015, 106, 111-115.	1.5	9
25	Development of Monte Carlo based real-time treatment planning system with fast calculation algorithm for boron neutron capture therapy. <i>Physica Medica</i> , 2016, 32, 1846-1851.	0.7	9
26	Whole-body dose evaluation with an adaptive treatment planning system for boron neutron capture therapy. <i>Radiation Protection Dosimetry</i> , 2015, 167, 584-590.	0.8	8
27	Note: Utilization of polymer gel as a bolus compensator and a dosimeter in the near-surface buildup region for breast-conserving therapy. <i>Review of Scientific Instruments</i> , 2015, 86, 096103.	1.3	7
28	Beam performance of the iBNCT as a compact linac-based BNCT neutron source developed by University of tsukuba. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	7
29	Dual ring multilayer ionization chamber and theory-based correction technique for scanning proton therapy. <i>Medical Physics</i> , 2016, 43, 4150-4162.	3.0	5
30	3D-printable lung phantom for distal falloff verification of proton Bragg peak. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 86-94.	1.9	5
31	Olfactory Sensations During Proton and Photon Radiotherapy: A Multicenter Prospective Observational Study. <i>Cureus</i> , 2022, 14, e22964.	0.5	5
32	DIFFERENCE IN DEGREE OF SUB-LETHAL DAMAGE RECOVERY BETWEEN CLINICAL PROTON BEAMS AND X-RAYS. <i>Radiation Protection Dosimetry</i> , 2019, 183, 93-97.	0.8	4
33	Monitoring patient movement with boron neutron capture therapy and motion capture technology. <i>Applied Radiation and Isotopes</i> , 2020, 163, 109208.	1.5	4
34	Continuum Spectra in One-nucleon Transfer Reactions $^{10}\text{B}(p, d)$ Reactions at Medium Energy Region". <i>Journal of Nuclear Science and Technology</i> , 2002, 39, 377-380.	1.3	3
35	A Correction Factor for Effects of Scattered X-rays at Calibration of Ionization Chambers in Low Energy X-ray Standard Fields. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 109-113.	1.3	3
36	Development of a tracking error prediction system for the CyberKnife Synchrony Respiratory Tracking System with use of support vector regression. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 2409-2418.	2.8	3

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37	General ion recombination effect in a liquid ionization chamber in high-dose-rate pulsed photon and electron beams. <i>Journal of Radiation Research</i> , 2018, 59, 282-285.	1.6	2
38	Computational evaluation of dose distribution for BNCT treatment combined with X-ray therapy or proton beam therapy. <i>Applied Radiation and Isotopes</i> , 2020, 165, 109295.	1.5	2
39	A Correction Factor for Effects of Scattered X-rays at Calibration of Ionization Chambers in Low Energy X-ray Standard Fields. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 109-113.	1.3	2
40	Detection of anatomical changes using two-dimensional x-ray images for head and neck adaptive radiotherapy. <i>Medical Physics</i> , 2022, , .	3.0	2
41	An infrared interactive patient position guidance and acquisition control system for use during radiotherapy treatment. <i>Journal of Radiotherapy in Practice</i> , 2017, 16, 303-310.	0.5	1
42	Response to "Comments on "Novel real-time tumor-contouring method using deep learning to prevent mistracking in X-ray fluoroscopy"™. <i>Radiological Physics and Technology</i> , 2018, 11, 362-363.	1.9	1
43	Changes in skeletal muscle diffusion parameters owing to intramyocellular lipid. <i>Magnetic Resonance Imaging</i> , 2020, 73, 70-75.	1.8	1
44	Evaluation of dose distribution and normal tissue complication probability of a combined dose of cone-beam computed tomography imaging with treatment in prostate intensity-modulated radiation therapy. <i>Journal of Medical Physics</i> , 2020, 45, 78.	0.3	1
45	Analysis of diaphragm movements to specify geometric uncertainties of respiratory gating near end-exhalation for irradiation fields involving the liver dome. <i>Radiotherapy and Oncology</i> , 2022, 171, 146-154.	0.6	1
46	Aggressive proton beam therapy followed by liver transplantation for a patient with large HCC with portal vein tumor thrombus. <i>International Cancer Conference Journal</i> , 2013, 2, 41-44.	0.5	0
47	Demonstration of BSS Unfolding Method for BNCT Neutron Field and Development of New BSS using Li-glass Scintillators coupled with Current-mode-operated PMTs for Intense Neutron Field. , 2018, , .		0
48	Capacity of proton beams in preserving normal liver tissue during proton beam therapy for hepatocellular carcinoma. <i>Journal of Radiation Research</i> , 2021, 62, 133-141.	1.6	0
49	Modeling of daily operation in proton radiotherapy by Monte Carlo method. <i>Igaku Butsuri: Nihon Igaku Butsuri Gakkai Kikanshi = Japanese Journal of Medical Physics: an Official Journal of Japan Society of Medical Physics</i> , 2003, 23, 147-56.	0.0	0