

Taku Inaniwa

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,016
citations

623574

14
h-index

434063

31
g-index

32
all docs

32
docs citations

32
times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	Stopping-power ratio of mouthpiece materials for charged-particle therapy in head and neck cancer. <i>Radiological Physics and Technology</i> , 2022, 15, 83-88.	1.0	3
2	Application of lung substitute material as ripple filter for multi-ion therapy with helium-, carbon-, oxygen-, and neon-ion beams. <i>Physics in Medicine and Biology</i> , 2021, 66, 055002.	1.6	5
3	Estimating the biological effects of helium, carbon, oxygen, and neon ion beams using 3D silicon microdosimeters. <i>Physics in Medicine and Biology</i> , 2021, 66, 045017.	1.6	10
4	Adaptation of stochastic microdosimetric kinetic model to hypoxia for hypo-fractionated multi-ion therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2021, 66, 205007.	1.6	7
5	Effect of External Magnetic Fields on Biological Effectiveness of Proton Beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 597-603.	0.4	8
6	Nuclear-interaction correction for patient dose calculations in treatment planning of helium-, carbon-, oxygen-, and neon-ion beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 025004.	1.6	13
7	Dose-averaged linear energy transfer per se does not correlate with late rectal complications in carbon-ion radiotherapy. <i>Radiotherapy and Oncology</i> , 2020, 153, 272-278.	0.3	13
8	Fully integrated Monte Carlo simulation for evaluating radiation induced DNA damage and subsequent repair using Geant4-DNA. <i>Scientific Reports</i> , 2020, 10, 20788.	1.6	43
9	Experimental validation of stochastic microdosimetric kinetic model for multi-ion therapy treatment planning with helium-, carbon-, oxygen-, and neon-ion beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 045005.	1.6	34
10	Unresectable Chondrosarcomas Treated With Carbon Ion Radiotherapy: Relationship Between Dose-averaged Linear Energy Transfer and Local Recurrence. <i>Anticancer Research</i> , 2020, 40, 6429-6435.	0.5	17
11	Effect of Irradiation Time on Biological Effectiveness and Tumor Control Probability in Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 222-229.	0.4	8
12	Effects of Magnetic Field Applied Just Before, During or Immediately after Carbon-Ion Beam Irradiation on its Biological Effectiveness. <i>Radiation Research</i> , 2019, 192, 662.	0.7	2
13	Enhancement of biological effectiveness of carbon-ion beams by applying a longitudinal magnetic field. <i>International Journal of Radiation Biology</i> , 2019, 95, 720-724.	1.0	15
14	Influence of a perpendicular magnetic field on biological effectiveness of carbon-ion beams. <i>International Journal of Radiation Biology</i> , 2019, 95, 1346-1350.	1.0	6
15	Measurement of nuclear reaction cross sections by using Cherenkov radiation toward high-precision proton therapy. <i>Scientific Reports</i> , 2018, 8, 2570.	1.6	23
16	Estimation of linear energy transfer distribution for broad-beam carbon-ion radiotherapy at the National Institute of Radiological Sciences, Japan. <i>Radiological Physics and Technology</i> , 2018, 11, 242-247.	1.0	7
17	Computational models and tools. <i>Medical Physics</i> , 2018, 45, e1073-e1085.	1.6	5
18	Precision imaging of 4.4 MeV gamma rays using a 3-D position sensitive Compton camera. <i>Scientific Reports</i> , 2018, 8, 8116.	1.6	36

#	ARTICLE	IF	CITATIONS
19	Scanned carbon-ion beam therapy throughput over the first 7 years at National Institute of Radiological Sciences. <i>Physica Medica</i> , 2018, 52, 18-26.	0.4	11
20	Treatment planning of intensity modulated composite particle therapy with dose and linear energy transfer optimization. <i>Physics in Medicine and Biology</i> , 2017, 62, 5180-5197.	1.6	101
21	Reformulation of a clinical-dose system for carbon-ion radiotherapy treatment planning at the National Institute of Radiological Sciences, Japan. <i>Physics in Medicine and Biology</i> , 2015, 60, 3271-3286.	1.6	196
22	A novel method for experimental characterization of large-angle scattered particles in scanned carbon-ion therapy. <i>Medical Physics</i> , 2014, 41, 021706.	1.6	18
23	Effects of Dose-Delivery Time Structure on Biological Effectiveness for Therapeutic Carbon-Ion Beams Evaluated with Microdosimetric Kinetic Model. <i>Radiation Research</i> , 2013, 180, 44-59.	0.7	57
24	A robust algorithm of intensity modulated proton therapy for critical tissue sparing and target coverage. <i>Physics in Medicine and Biology</i> , 2011, 56, 4749-4770.	1.6	35
25	Treatment planning for a scanned carbon beam with a modified microdosimetric kinetic model. <i>Physics in Medicine and Biology</i> , 2010, 55, 6721-6737.	1.6	233
26	Field-size effect of physical doses in carbon-ion scanning using range shifter plates. <i>Medical Physics</i> , 2009, 36, 2889-2897.	1.6	52
27	Clinical ion beams: semi-analytical calculation of their quality. <i>Physics in Medicine and Biology</i> , 2007, 52, 7261-7279.	1.6	12
28	Optimization for fast-scanning irradiation in particle therapy. <i>Medical Physics</i> , 2007, 34, 3302-3311.	1.6	41