Taku Inaniwa

List of Publications by Year in descending order

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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	Treatment planning for a scanned carbon beam with a modified microdosimetric kinetic model. Physics in Medicine and Biology, 2010, 55, 6721-6737.	1.6	233
2	Reformulation of a clinical-dose system for carbon-ion radiotherapy treatment planning at the National Institute of Radiological Sciences, Japan. Physics in Medicine and Biology, 2015, 60, 3271-3286.	1.6	196
3	Treatment planning of intensity modulated composite particle therapy with dose and linear energy transfer optimization. Physics in Medicine and Biology, 2017, 62, 5180-5197.	1.6	101
4	Effects of Dose-Delivery Time Structure on Biological Effectiveness for Therapeutic Carbon-Ion Beams Evaluated with Microdosimetric Kinetic Model. Radiation Research, 2013, 180, 44-59.	0.7	57
5	Fieldâ€size effect of physical doses in carbonâ€ion scanning using range shifter plates. Medical Physics, 2009, 36, 2889-2897.	1.6	52
6	Fully integrated Monte Carlo simulation for evaluating radiation induced DNA damage and subsequent repair using Geant4-DNA. Scientific Reports, 2020, 10, 20788.	1.6	43
7	Optimization for fastâ€scanning irradiation in particle therapy. Medical Physics, 2007, 34, 3302-3311.	1.6	41
8	Precision imaging of 4.4 MeV gamma rays using a 3-D position sensitive Compton camera. Scientific Reports, 2018, 8, 8116.	1.6	36
9	A robust algorithm of intensity modulated proton therapy for critical tissue sparing and target coverage. Physics in Medicine and Biology, 2011, 56, 4749-4770.	1.6	35
10	Experimental validation of stochastic microdosimetric kinetic model for multi-ion therapy treatment planning with helium-, carbon-, oxygen-, and neon-ion beams. Physics in Medicine and Biology, 2020, 65, 045005.	1.6	34
11	Measurement of nuclear reaction cross sections by using Cherenkov radiation toward high-precision proton therapy. Scientific Reports, 2018, 8, 2570.	1.6	23
12	A novel method for experimental characterization of largeâ€angle scattered particles in scanned carbonâ€ion therapy. Medical Physics, 2014, 41, 021706.	1.6	18
13	Unresectable Chondrosarcomas Treated With Carbon Ion Radiotherapy: Relationship Between Dose-averaged Linear Energy Transfer and Local Recurrence. Anticancer Research, 2020, 40, 6429-6435.	0.5	17
14	Enhancement of biological effectiveness of carbon-ion beams by applying a longitudinal magnetic field. International Journal of Radiation Biology, 2019, 95, 720-724.	1.0	15
15	Nuclear-interaction correction for patient dose calculations in treatment planning of helium-, carbon-, oxygen-, and neon-ion beams. Physics in Medicine and Biology, 2020, 65, 025004.	1.6	13
16	Dose-averaged linear energy transfer per se does not correlate with late rectal complications in carbon-ion radiotherapy. Radiotherapy and Oncology, 2020, 153, 272-278.	0.3	13
17	Clinical ion beams: semi-analytical calculation of their quality. Physics in Medicine and Biology, 2007, 52, 7261-7279.	1.6	12
18	Scanned carbon-ion beam therapy throughput over the first 7â€¯years at National Institute of Radiological Sciences. Physica Medica, 2018, 52, 18-26.	0.4	11

#	Article	IF	Citations
19	Estimating the biological effects of helium, carbon, oxygen, and neon ion beams using 3D silicon microdosimeters. Physics in Medicine and Biology, 2021, 66, 045017.	1.6	10
20	Effect of Irradiation Time on Biological Effectiveness and Tumor Control Probability in Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2019, 105, 222-229.	0.4	8
21	Effect of External Magnetic Fields on Biological Effectiveness of Proton Beams. International Journal of Radiation Oncology Biology Physics, 2020, 106, 597-603.	0.4	8
22	Estimation of linear energy transfer distribution for broad-beam carbon-ion radiotherapy at the National Institute of Radiological Sciences, Japan. Radiological Physics and Technology, 2018, 11, 242-247.	1.0	7
23	Adaptation of stochastic microdosimetric kinetic model to hypoxia for hypo-fractionated multi-ion therapy treatment planning. Physics in Medicine and Biology, 2021, 66, 205007.	1.6	7
24	Influence of a perpendicular magnetic field on biological effectiveness of carbon-ion beams. International Journal of Radiation Biology, 2019, 95, 1346-1350.	1.0	6
25	Computational models and tools. Medical Physics, 2018, 45, e1073-e1085.	1.6	5
26	Application of lung substitute material as ripple filter for multi-ion therapy with helium-, carbon-, oxygen-, and neon-ion beams. Physics in Medicine and Biology, 2021, 66, 055002.	1.6	5
27	Stopping-power ratio of mouthpiece materials for charged-particle therapy in head and neck cancer. Radiological Physics and Technology, 2022, 15, 83-88.	1.0	3
28	Effects of Magnetic Field Applied Just Before, During or Immediately after Carbon-Ion Beam Irradiation on its Biological Effectiveness. Radiation Research, 2019, 192, 662.	0.7	2