

Bleddyn Jones

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

758
citations

567281
15
h-index

526287
27
g-index

41
all docs

41
docs citations

41
times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk assessment for proton therapy in the central nervous system by assuming small increments in RBE. Radiation Physics and Chemistry, 2022, 200, 110213.	2.8	0
2	The influence of hypoxia on LET and RBE relationships with implications for ultra-high dose rates and FLASH modelling. Physics in Medicine and Biology, 2022, 67, 125011.	3.0	5
3	Fast neutron energy based modelling of biological effectiveness with implications for proton and ion beams. Physics in Medicine and Biology, 2021, 66, 045028.	3.0	3
4	Further development of spinal cord retreatment dose estimation: including radiotherapy with protons and light ions. International Journal of Radiation Biology, 2021, 97, 1657-1666.	1.8	2
5	Low Dose Ionising Radiation-Induced Hormesis: Therapeutic Implications to Human Health. Applied Sciences (Switzerland), 2021, 11, 8909.	2.5	11
6	Machine learning algorithms utilizing blood parameters enable early detection of immunethrombotic dysregulation in COVID-19. Clinical and Translational Medicine, 2021, 11, e523.	4.0	10
7	Establishment of a Therapeutic Ratio for Gamma Knife Radiosurgery of Trigeminal Neuralgia: The Critical Importance of Biologically Effective Dose Versus Physical Dose. World Neurosurgery, 2020, 134, e204-e213.	1.3	44
8	Clinical Radiobiology of Fast Neutron Therapy: What Was Learnt?. Frontiers in Oncology, 2020, 10, 1537.	2.8	16
9	The influence of the α/β ratio on treatment time iso-effect relationships in the central nervous system. International Journal of Radiation Biology, 2020, 96, 903-909.	1.8	9
10	The physical separation between the LET associated with the ultimate relative biological effect (RBE) and the maximum LET in a proton or ion beam. Biomedical Physics and Engineering Express, 2020, 6, 055001.	1.2	4
11	Modelling the influence of treatment time on the biological effectiveness of single radiosurgery treatments: derivation of 'protective' dose modification factors. British Journal of Radiology, 2019, 92, 20180111.	2.2	23
12	Physical characteristics at the turnover-points of relative biological effect (RBE) with linear energy transfer (LET). Physics in Medicine and Biology, 2019, 64, 225010.	3.0	9
13	Potential lethal damage repair in glioblastoma cells irradiated with ion beams of various types and levels of linear energy transfer. Journal of Radiation Research, 2019, 60, 59-68.	1.6	5
14	Use of radiobiology in medical jurisprudence, with particular reference to delays in diagnosis and therapeutic onset. British Journal of Radiology, 2019, 92, 20190672.	2.2	1
15	Determining RBE for development of lung fibrosis induced by fractionated irradiation with carbon ions utilizing fibrosis index and high-LET BED model. Clinical and Translational Radiation Oncology, 2019, 14, 25-32.	1.7	7
16	The radiobiological effects of He, C and Ne ions as a function of LET on various glioblastoma cell lines. Journal of Radiation Research, 2019, 60, 178-188.	1.6	5
17	Modeling and multiscale characterization of the quantitative imaging based fibrosis index reveals pathophysiological, transcriptome and proteomic correlates of lung fibrosis induced by fractionated irradiation. International Journal of Cancer, 2019, 144, 3160-3173.	5.1	13
18	Effects of variations in overall treatment time on the clonogenic survival of V79-4 cells: Implications for radiosurgery. Journal of Radiosurgery and SBRT, 2019, 6, 1-9.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Changes in the retreatment radiation tolerance of the spinal cord with time after the initial treatment. International Journal of Radiation Biology, 2018, 94, 515-531.	1.8	14
20	Overview of research and therapy facilities for radiobiological experimental work in particle therapy. Report from the European Particle Therapy Network radiobiology group. Radiotherapy and Oncology, 2018, 128, 14-18.	0.6	21
21	Towards a Clinical Decision Support System for External Beam Radiation Oncology Prostate Cancer Patients: Proton vs. Photon Radiotherapy? A Radiobiological Study of Robustness and Stability. Cancers, 2018, 10, 55.	3.7	5
22	Union of light ion therapy centers in Europe (ULICE EC FP7) – Objectives and achievements of joint research activities. Radiotherapy and Oncology, 2018, 128, 83-100.	0.6	6
23	Quantitative assessment of radiation dose and fractionation effects on normal tissue by utilizing a novel lung fibrosis index model. Radiation Oncology, 2017, 12, 172.	2.7	16
24	Proton radiobiology and its clinical implications. Ecancermedicalsecience, 2017, 11, 777.	1.1	8
25	A validated tumor control probability model based on a meta-analysis of low, intermediate, and high-risk prostate cancer patients treated by photon, proton, or carbon-ion radiotherapy. Medical Physics, 2016, 43, 734-747.	3.0	17
26	Why RBE must be a variable and not a constant in proton therapy. British Journal of Radiology, 2016, 89, 20160116.	2.2	55
27	Proton beam therapy for medulloblastoma. Lancet Oncology, The, 2016, 17, e173.	10.7	2
28	A Simpler Energy Transfer Efficiency Model to Predict Relative Biological Effect for Protons and Heavier Ions. Frontiers in Oncology, 2015, 5, 184.	2.8	41
29	Towards Achieving the Full Clinical Potential of Proton Therapy by Inclusion of LET and RBE Models. Cancers, 2015, 7, 460-480.	3.7	51
30	Alternative models for estimating the radiotherapy retreatment dose for the spinal cord. International Journal of Radiation Biology, 2014, 90, 731-741.	1.8	20
31	Response to “Position statement on ethics, equipoise and research on charged particle therapy”. Journal of Medical Ethics, 2014, 40, 576-577.	1.8	3
32	Patterns of Failure After Proton Therapy in Medulloblastoma. International Journal of Radiation Oncology Biology Physics, 2014, 90, 25-26.	0.8	13
33	Charged particles in radiotherapy: A 5-year update of a systematic review. Radiotherapy and Oncology, 2012, 103, 5-7.	0.6	97
34	Modelling carcinogenesis after radiotherapy using Poisson statistics: implications for IMRT, protons and ions. Journal of Radiological Protection, 2009, 29, A143-A157.	1.1	21
35	Charged particle therapy for cancer: The inheritance of the Cavendish scientists?. Applied Radiation and Isotopes, 2009, 67, 371-377.	1.5	9
36	The incorporation of the concept of minimum RBE (RBE _{min}) into the linear-quadratic model and the potential for improved radiobiological analysis of high-LET treatments. International Journal of Radiation Biology, 2007, 83, 27-39.	1.8	134

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37	Linear quadratic modeling of increased late normal-tissue effects in special clinical situations. International Journal of Radiation Oncology Biology Physics, 2006, 64, 948-953.	0.8	26
38	Radiobiological modeling and clinical trials. International Journal of Radiation Oncology Biology Physics, 2000, 48, 259-265.	0.8	28