

# Bleddyn Jones

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

758  
citations

566801

15  
h-index

525886

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. <i>Radiation Physics and Chemistry</i> , 2022, 200, 110213.	1.4	0
2	The influence of hypoxia on LET and RBE relationships with implications for ultra-high dose rates and FLASH modelling. <i>Physics in Medicine and Biology</i> , 2022, 67, 125011.	1.6	5
3	Fast neutron energy based modelling of biological effectiveness with implications for proton and ion beams. <i>Physics in Medicine and Biology</i> , 2021, 66, 045028.	1.6	3
4	Further development of spinal cord retreatment dose estimation: including radiotherapy with protons and light ions. <i>International Journal of Radiation Biology</i> , 2021, 97, 1657-1666.	1.0	2
5	Low Dose Ionising Radiation-Induced Hormesis: Therapeutic Implications to Human Health. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8909.	1.3	11
6	Machine learning algorithms utilizing blood parameters enable early detection of immunethrombotic dysregulation in COVID-19. <i>Clinical and Translational Medicine</i> , 2021, 11, e523.	1.7	10
7	Establishment of a Therapeutic Ratio for Gamma Knife Radiosurgery of Trigeminal Neuralgia: The Critical Importance of Biologically Effective Dose Versus Physical Dose. <i>World Neurosurgery</i> , 2020, 134, e204-e213.	0.7	44
8	Clinical Radiobiology of Fast Neutron Therapy: What Was Learnt?. <i>Frontiers in Oncology</i> , 2020, 10, 1537.	1.3	16
9	The influence of the $\hat{L}\pm/\hat{L}^2$ ratio on treatment time iso-effect relationships in the central nervous system. <i>International Journal of Radiation Biology</i> , 2020, 96, 903-909.	1.0	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. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 055001.	0.6	4
11	Modelling the influence of treatment time on the biological effectiveness of single radiosurgery treatments: derivation of 'protective' dose modification factors. <i>British Journal of Radiology</i> , 2019, 92, 20180111.	1.0	23
12	Physical characteristics at the turnover-points of relative biological effect (RBE) with linear energy transfer (LET). <i>Physics in Medicine and Biology</i> , 2019, 64, 225010.	1.6	9
13	Potential lethal damage repair in glioblastoma cells irradiated with ion beams of various types and levels of linear energy transfer. <i>Journal of Radiation Research</i> , 2019, 60, 59-68.	0.8	5
14	Use of radiobiology in medical jurisprudence, with particular reference to delays in diagnosis and therapeutic onset. <i>British Journal of Radiology</i> , 2019, 92, 20190672.	1.0	1
15	Determining RBE for development of lung fibrosis induced by fractionated irradiation with carbon ions utilizing fibrosis index and high-LET BED model. <i>Clinical and Translational Radiation Oncology</i> , 2019, 14, 25-32.	0.9	7
16	The radiobiological effects of He, C and Ne ions as a function of LET on various glioblastoma cell lines. <i>Journal of Radiation Research</i> , 2019, 60, 178-188.	0.8	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. <i>International Journal of Cancer</i> , 2019, 144, 3160-3173.	2.3	13
18	Effects of variations in overall treatment time on the clonogenic survival of V79-4 cells: Implications for radiosurgery. <i>Journal of Radiosurgery and SBRT</i> , 2019, 6, 1-9.	0.2	1

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19	Changes in the retreatment radiation tolerance of the spinal cord with time after the initial treatment. <i>International Journal of Radiation Biology</i> , 2018, 94, 515-531.	1.0	14
20	Overview of research and therapy facilities for radiobiological experimental work in particle therapy. Report from the European Particle Therapy Network radiobiology group. <i>Radiotherapy and Oncology</i> , 2018, 128, 14-18.	0.3	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. <i>Cancers</i> , 2018, 10, 55.	1.7	5
22	Union of light ion therapy centers in Europe (ULICE EC FP7) – Objectives and achievements of joint research activities. <i>Radiotherapy and Oncology</i> , 2018, 128, 83-100.	0.3	6
23	Quantitative assessment of radiation dose and fractionation effects on normal tissue by utilizing a novel lung fibrosis index model. <i>Radiation Oncology</i> , 2017, 12, 172.	1.2	16
24	Proton radiobiology and its clinical implications. <i>Ecancermedicalsecience</i> , 2017, 11, 777.	0.6	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. <i>Medical Physics</i> , 2016, 43, 734-747.	1.6	17
26	Why RBE must be a variable and not a constant in proton therapy. <i>British Journal of Radiology</i> , 2016, 89, 20160116.	1.0	55
27	Proton beam therapy for medulloblastoma. <i>Lancet Oncology</i> , The, 2016, 17, e173.	5.1	2
28	A Simpler Energy Transfer Efficiency Model to Predict Relative Biological Effect for Protons and Heavier Ions. <i>Frontiers in Oncology</i> , 2015, 5, 184.	1.3	41
29	Towards Achieving the Full Clinical Potential of Proton Therapy by Inclusion of LET and RBE Models. <i>Cancers</i> , 2015, 7, 460-480.	1.7	51
30	Alternative models for estimating the radiotherapy retreatment dose for the spinal cord. <i>International Journal of Radiation Biology</i> , 2014, 90, 731-741.	1.0	20
31	Response to –™Position statement on ethics, equipoise and research on charged particle therapy–. <i>Journal of Medical Ethics</i> , 2014, 40, 576-577.	1.0	3
32	Patterns of Failure After Proton Therapy in Medulloblastoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 25-26.	0.4	13
33	Charged particles in radiotherapy: A 5-year update of a systematic review. <i>Radiotherapy and Oncology</i> , 2012, 103, 5-7.	0.3	97
34	Modelling carcinogenesis after radiotherapy using Poisson statistics: implications for IMRT, protons and ions. <i>Journal of Radiological Protection</i> , 2009, 29, A143-A157.	0.6	21
35	Charged particle therapy for cancer: The inheritance of the Cavendish scientists?. <i>Applied Radiation and Isotopes</i> , 2009, 67, 371-377.	0.7	9
36	The incorporation of the concept of minimum RBE (RBE <sub>min</sub> ) into the linear-quadratic model and the potential for improved radiobiological analysis of high-LET treatments. <i>International Journal of Radiation Biology</i> , 2007, 83, 27-39.	1.0	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.	0.4	26
38	Radiobiological modeling and clinical trials. International Journal of Radiation Oncology Biology Physics, 2000, 48, 259-265.	0.4	28