

# 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	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
2	Charged particles in radiotherapy: A 5-year update of a systematic review. <i>Radiotherapy and Oncology</i> , 2012, 103, 5-7.	0.3	97
3	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
4	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
5	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
6	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
7	Radiobiological modeling and clinical trials. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 48, 259-265.	0.4	28
8	Linear quadratic modeling of increased late normal-tissue effects in special clinical situations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 948-953.	0.4	26
9	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
10	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
11	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
12	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
13	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
14	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
15	Clinical Radiobiology of Fast Neutron Therapy: What Was Learnt?. <i>Frontiers in Oncology</i> , 2020, 10, 1537.	1.3	16
16	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
17	Patterns of Failure After Proton Therapy in Medulloblastoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 25-26.	0.4	13
18	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

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19	Low Dose Ionising Radiation-Induced Hormesis: Therapeutic Implications to Human Health. Applied Sciences (Switzerland), 2021, 11, 8909.	1.3	11
20	Machine learning algorithms utilizing blood parameters enable early detection of immunethrombotic dysregulation in COVID-19. Clinical and Translational Medicine, 2021, 11, e523.	1.7	10
21	Charged particle therapy for cancer: The inheritance of the Cavendish scientists?. Applied Radiation and Isotopes, 2009, 67, 371-377.	0.7	9
22	Physical characteristics at the turnover-points of relative biological effect (RBE) with linear energy transfer (LET). Physics in Medicine and Biology, 2019, 64, 225010.	1.6	9
23	The influence of the $\hat{\mu}/\hat{\mu}^2$ ratio on treatment time iso-effect relationships in the central nervous system. International Journal of Radiation Biology, 2020, 96, 903-909.	1.0	9
24	Proton radiobiology and its clinical implications. Ecancermedicalsecience, 2017, 11, 777.	0.6	8
25	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.	0.9	7
26	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.	0.3	6
27	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.	1.7	5
28	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.	0.8	5
29	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.	0.8	5
30	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.	1.6	5
31	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.	0.6	4
32	Response to –Position statement on ethics, equipoise and research on charged particle therapy–. Journal of Medical Ethics, 2014, 40, 576-577.	1.0	3
33	Fast neutron energy based modelling of biological effectiveness with implications for proton and ion beams. Physics in Medicine and Biology, 2021, 66, 045028.	1.6	3
34	Proton beam therapy for medulloblastoma. Lancet Oncology, The, 2016, 17, e173.	5.1	2
35	Further development of spinal cord retreatment dose estimation: including radiotherapy with protons and light ions. International Journal of Radiation Biology, 2021, 97, 1657-1666.	1.0	2
36	Use of radiobiology in medical jurisprudence, with particular reference to delays in diagnosis and therapeutic onset. British Journal of Radiology, 2019, 92, 20190672.	1.0	1

#	ARTICLE	IF	CITATIONS
37	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
38	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