## Alejandro Bertolet

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Correlation of LET With MRI Changes in Brain and Potential Implications for Normal Tissue Complication Probability for Patients With Meningioma Treated With Pencil Beam Scanning Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2022, 112, 237-246.	0.8	12
2	Modified Geometry of 106Ru Asymmetric Eye Plaques to Improve Dosimetric Calculations in Ophthalmic Brachytherapy. Journal of Personalized Medicine, 2022, 12, 723.	2.5	0
3	Implementation of the microdosimetric kinetic model using analytical microdosimetry in a treatment planning system for proton therapy. Physica Medica, 2021, 81, 69-76.	0.7	8
4	The relation between microdosimetry and induction of direct damage to DNA by alpha particles. Physics in Medicine and Biology, 2021, 66, 155016.	3.0	11
5	A Monte Carlo dose calculation system for ophthalmic brachytherapy based on a realistic eye model. Medical Physics, 2021, 48, 4542-4559.	3.0	5
6	Microdosimetry and Dose-Averaged LET Calculations of Protons in Liquid Water: A Novel Geant4-DNA Application. Frontiers in Physics, 2021, 9, .	2.1	6
7	Pre- and post-treatment image-based dosimetry in <sup>90</sup> Y-microsphere radioembolization using the TOPAS Monte Carlo toolkit. Physics in Medicine and Biology, 2021, 66, 244002.	3.0	4
8	Is there a role for arcing techniques in proton therapy?. British Journal of Radiology, 2020, 93, 20190469.	2.2	17
9	Modelling Dose Effects from Space Irradiations: Combination of High-LET and Low-LET Radiations with a Modified Microdosimetric Kinetic Model. Life, 2020, 10, 161.	2.4	5
10	Organic generation of real-world real-time data for clinical evidence in radiation oncology. International Journal of Medical Informatics, 2020, 144, 104301.	3.3	5
11	Clinical implications of variable relative biological effectiveness in proton therapy for prostate cancer. Acta Oncológica, 2020, 59, 1171-1177.	1.8	3
12	Proton monoenergetic arc therapy (PMAT) to enhance LETd within the target. Physics in Medicine and Biology, 2020, 65, 165006.	3.0	22
13	Radiobiological effectiveness difference of proton arc beams versus conventional proton and photon beams. Physics in Medicine and Biology, 2020, 65, 165002.	3.0	12
14	Experimental validation of an analytical microdosimetric model based on Geant4-DNA simulations by using a silicon-based microdosimeter. Radiation Physics and Chemistry, 2020, 176, 109060.	2.8	5
15	A kernelâ€based algorithm for the spectral fluence of clinical proton beams to calculate doseâ€averaged LET and other dosimetric quantities of interest. Medical Physics, 2020, 47, 2495-2505.	3.0	11
16	On the concepts of dose-mean lineal energy, unrestricted and restricted dose-averaged LET in proton therapy. Physics in Medicine and Biology, 2020, 65, 075011.	3.0	13
17	An Analytical Microdosimetric Model for Radioimmunotherapeutic Alpha Emitters. Radiation Research, 2020, 194, 403-410.	1.5	9
18	Calculation of clinical dose distributions in proton therapy from microdosimetry. Medical Physics, 2019, 46, 5816-5823	3.0	8

#	Article	IF	CITATIONS
19	Segmentâ€everaged LET concept and analytical calculation from microdosimetric quantities in proton radiation therapy. Medical Physics, 2019, 46, 4204-4214.	3.0	20
20	Doseâ€averaged LET calculation for proton track segments using microdosimetric Monte Carlo simulations. Medical Physics, 2019, 46, 4184-4192.	3.0	18
21	Monte Carlo verification of radiotherapy treatments with CloudMC. Radiation Oncology, 2018, 13, 99.	2.7	9