

Alejandro Bertolet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7128751/publications.pdf>

Version: 2024-02-01

21
papers

203
citations

1039406

9
h-index

1125271

13
g-index

21
all docs

21
docs citations

21
times ranked

169
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton monoenergetic arc therapy (PMAT) to enhance LETd within the target. <i>Physics in Medicine and Biology</i> , 2020, 65, 165006.	1.6	22
2	Segmentâ€averaged LET concept and analytical calculation from microdosimetric quantities in proton radiation therapy. <i>Medical Physics</i> , 2019, 46, 4204-4214.	1.6	20
3	Doseâ€averaged LET calculation for proton track segments using microdosimetric Monte Carlo simulations. <i>Medical Physics</i> , 2019, 46, 4184-4192.	1.6	18
4	Is there a role for arcing techniques in proton therapy?. <i>British Journal of Radiology</i> , 2020, 93, 20190469.	1.0	17
5	On the concepts of dose-mean lineal energy, unrestricted and restricted dose-averaged LET in proton therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 075011.	1.6	13
6	Radiobiological effectiveness difference of proton arc beams versus conventional proton and photon beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 165002.	1.6	12
7	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. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 237-246.	0.4	12
8	A kernelâ€based algorithm for the spectral fluence of clinical proton beams to calculate doseâ€averaged LET and other dosimetric quantities of interest. <i>Medical Physics</i> , 2020, 47, 2495-2505.	1.6	11
9	The relation between microdosimetry and induction of direct damage to DNA by alpha particles. <i>Physics in Medicine and Biology</i> , 2021, 66, 155016.	1.6	11
10	Monte Carlo verification of radiotherapy treatments with CloudMC. <i>Radiation Oncology</i> , 2018, 13, 99.	1.2	9
11	An Analytical Microdosimetric Model for Radioimmunotherapeutic Alpha Emitters. <i>Radiation Research</i> , 2020, 194, 403-410.	0.7	9
12	Calculation of clinical dose distributions in proton therapy from microdosimetry. <i>Medical Physics</i> , 2019, 46, 5816-5823.	1.6	8
13	Implementation of the microdosimetric kinetic model using analytical microdosimetry in a treatment planning system for proton therapy. <i>Physica Medica</i> , 2021, 81, 69-76.	0.4	8
14	Microdosimetry and Dose-Averaged LET Calculations of Protons in Liquid Water: A Novel Geant4-DNA Application. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	6
15	Modelling Dose Effects from Space Irradiations: Combination of High-LET and Low-LET Radiations with a Modified Microdosimetric Kinetic Model. <i>Life</i> , 2020, 10, 161.	1.1	5
16	Organic generation of real-world real-time data for clinical evidence in radiation oncology. <i>International Journal of Medical Informatics</i> , 2020, 144, 104301.	1.6	5
17	Experimental validation of an analytical microdosimetric model based on Geant4-DNA simulations by using a silicon-based microdosimeter. <i>Radiation Physics and Chemistry</i> , 2020, 176, 109060.	1.4	5
18	A Monte Carlo dose calculation system for ophthalmic brachytherapy based on a realistic eye model. <i>Medical Physics</i> , 2021, 48, 4542-4559.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Pre- and post-treatment image-based dosimetry in ⁹⁰ Y-microsphere radioembolization using the TOPAS Monte Carlo toolkit. <i>Physics in Medicine and Biology</i> , 2021, 66, 244002.	1.6	4
20	Clinical implications of variable relative biological effectiveness in proton therapy for prostate cancer. <i>Acta Oncol</i> , 2020, 59, 1171-1177.	0.8	3
21	Modified Geometry of ¹⁰⁶ Ru Asymmetric Eye Plaques to Improve Dosimetric Calculations in Ophthalmic Brachytherapy. <i>Journal of Personalized Medicine</i> , 2022, 12, 723.	1.1	0