

Alejandro Carabe-Fernandez

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

732
citations

840585

11
h-index

713332

21
g-index

24
all docs

24
docs citations

24
times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	Range uncertainty in proton therapy due to variable biological effectiveness. <i>Physics in Medicine and Biology</i> , 2012, 57, 1159-1172.	1.6	197
2	Report of the AAPM TG-256 on the relative biological effectiveness of proton beams in radiation therapy. <i>Medical Physics</i> , 2019, 46, e53-e78.	1.6	189
3	Clinical consequences of relative biological effectiveness variations in proton radiotherapy of the prostate, brain and liver. <i>Physics in Medicine and Biology</i> , 2013, 58, 2103-2117.	1.6	84
4	Linear Energy Transfer Painting With Proton Therapy: A Means of Reducing Radiation Doses With Equivalent Clinical Effectiveness. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 1057-1064.	0.4	58
5	Fractionation effects in particle radiotherapy: implications for hypo-fractionation regimes. <i>Physics in Medicine and Biology</i> , 2010, 55, 5685-5700.	1.6	43
6	Segment-averaged LET concept and analytical calculation from microdosimetric quantities in proton radiation therapy. <i>Medical Physics</i> , 2019, 46, 4204-4214.	1.6	20
7	Range optimization for mono- and bi-energetic proton modulated arc therapy with pencil beam scanning. <i>Physics in Medicine and Biology</i> , 2016, 61, N565-N574.	1.6	18
8	Is there a role for arcing techniques in proton therapy?. <i>British Journal of Radiology</i> , 2020, 93, 20190469.	1.0	17
9	Relative biological effectiveness (RBE) and out-of-field cell survival responses to passive scattering and pencil beam scanning proton beam deliveries. <i>Physics in Medicine and Biology</i> , 2012, 57, 6671-6680.	1.6	15
10	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
11	Broad-Spectrum Antibiotic or G-CSF as Potential Countermeasures for Impaired Control of Bacterial Infection Associated with an SPE Exposure during Spaceflight. <i>PLoS ONE</i> , 2015, 10, e0120126.	1.1	12
12	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
13	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
14	Calculation of clinical dose distributions in proton therapy from microdosimetry. <i>Medical Physics</i> , 2019, 46, 5816-5823.	1.6	8
15	Renormalization of radiobiological response functions by energy loss fluctuations and complexities in chromosome aberration induction: deactivation theory for proton therapy from cells to tumor control. <i>European Physical Journal D</i> , 2019, 73, 1.	0.6	8
16	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
17	SU-E _T : Proton Modulated Arc Therapy Using Scanned Pencil Beams. <i>Medical Physics</i> , 2015, 42, 3483-3483.	1.6	6
18	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

#	ARTICLE	IF	CITATIONS
19	Proposed linear energy transfer areal detector for protons using radiochromic film. Review of Scientific Instruments, 2015, 86, 044301.	0.6	3
20	Clinical implications of variable relative biological effectiveness in proton therapy for prostate cancer. Acta Oncol ³ gica, 2020, 59, 1171-1177.	0.8	3
21	SU-E-T-555: A Protontherapy Inverse Treatment Planning System Prototype with Linear Energy Transfer (LET) Optimization. Medical Physics, 2014, 41, 355-355.	1.6	1
22	SU-DD-A2-02: Repair Kinetic Considerations in High-LET Particle Beam Radiotherapy. Medical Physics, 2010, 37, 3089-3089.	1.6	0
23	SU-E-T-214: Intensity Modulated Proton Therapy (IMPT) Based On Passively Scattered Protons and Multi-Leaf Collimation: Prototype TPS and Dosimetry Study. Medical Physics, 2014, 41, 272-272.	1.6	0
24	SU-E-T-571: Microdosimetric Characterization of Proton Biological Effectiveness. Medical Physics, 2014, 41, 359-359.	1.6	0