Alejandro Carabe-Fernandez

List of Publications by Year
in descending order

24 papers	732 citations	840119 11 h-index	713013 21 g-index
24 all docs	24 docs citations	24 times ranked	676 citing authors

#	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.	0.4	12
2	Implementation of the microdosimetric kinetic model using analytical microdosimetry in a treatment planning system for proton therapy. Physica Medica, 2021, 81, 69-76.	0.4	8
3	Is there a role for arcing techniques in proton therapy?. British Journal of Radiology, 2020, 93, 20190469.	1.0	17
4	Modelling Dose Effects from Space Irradiations: Combination of High-LET and Low-LET Radiations with a Modified Microdosimetric Kinetic Model. Life, 2020, 10, 161.	1.1	5
5	Clinical implications of variable relative biological effectiveness in proton therapy for prostate cancer. Acta OncolÃ³gica, 2020, 59, 1171-1177.	0.8	3
6	Radiobiological effectiveness difference of proton arc beams versus conventional proton and photon beams. Physics in Medicine and Biology, 2020, 65, 165002.	1.6	12
7	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.	1.6	13
8	Calculation of clinical dose distributions in proton therapy from microdosimetry. Medical Physics, 2019, 46, 5816-5823.	1.6	8
9	Report of the <scp>AAPM TG</scp>â€256 on the relative biological effectiveness of proton beams in radiation therapy. Medical Physics, 2019, 46, e53-e78.	1.6	189
10	Segmentâ€averaged LET concept and analytical calculation from microdosimetric quantities in proton radiation therapy. Medical Physics, 2019, 46, 4204-4214.	1.6	20
11	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. European Physical Journal D, 2019, 73, 1.	0.6	8
12	Range optimization for mono- and bi-energetic proton modulated arc therapy with pencil beam scanning. Physics in Medicine and Biology, 2016, 61, N565-N574.	1.6	18
13	Broad-Spectrum Antibiotic or G-CSF as Potential Countermeasures for Impaired Control of Bacterial Infection Associated with an SPE Exposure during Spaceflight. PLoS ONE, 2015, 10, e0120126.	1.1	12
14	Proposed linear energy transfer areal detector for protons using radiochromic film. Review of Scientific Instruments, 2015, 86, 044301.	0.6	3
15	Linear Energy Transfer Painting With Proton Therapy: A Means of Reducing Radiation Doses With Equivalent Clinical Effectiveness. International Journal of Radiation Oncology Biology Physics, 2015, 91, 1057-1064.	0.4	58
16	SUâ€Eâ€Tâ€640: Proton Modulated Arc Therapy Using Scanned Pencil Beams. Medical Physics, 2015, 42, 3483-3483.	1.6	6
17	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
18	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

#	Article	IF	Citations
19	SU-E-T-571: Microdosimetric Characterization of Proton Biological Effectiveness. Medical Physics, 2014, 41, 359-359.	1.6	0
20	Clinical consequences of relative biological effectiveness variations in proton radiotherapy of the prostate, brain and liver. Physics in Medicine and Biology, 2013, 58, 2103-2117.	1.6	84
21	Relative biological effectiveness (RBE) and out-of-field cell survival responses to passive scattering and pencil beam scanning proton beam deliveries. Physics in Medicine and Biology, 2012, 57, 6671-6680.	1.6	15
22	Range uncertainty in proton therapy due to variable biological effectiveness. Physics in Medicine and Biology, 2012, 57, 1159-1172.	1.6	197
23	Fractionation effects in particle radiotherapy: implications for hypo-fractionation regimes. Physics in Medicine and Biology, 2010, 55, 5685-5700.	1.6	43
24	SU-DD-A2-02: Repair Kinetic Considerations in High-LET Particle Beam Radiotherapy. Medical Physics, 2010, 37, 3089-3089.	1.6	0