

Immaculada MartÃ-nez-Rovira

List of Publications by Year in descending order

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48
papers

641
citations

687363

13
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48
all docs

48
docs citations

48
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and commissioning of a Monte Carlo photon beam model for the forthcoming clinical trials in microbeam radiation therapy. <i>Medical Physics</i> , 2011, 39, 119-131.	3.0	57
2	Proton minibeam radiation therapy: Experimental dosimetry evaluation. <i>Medical Physics</i> , 2015, 42, 7108-7113.	3.0	57
3	Evaluation of the local dose enhancement in the combination of proton therapy and nanoparticles. <i>Medical Physics</i> , 2015, 42, 6703-6710.	3.0	47
4	Monte Carlo dosimetry for forthcoming clinical trials in x-ray microbeam radiation therapy. <i>Physics in Medicine and Biology</i> , 2010, 55, 4375-4388.	3.0	46
5	Dosimetry protocol for the preclinical trials in whiteâ€œbeam minibeam radiation therapy. <i>Medical Physics</i> , 2011, 38, 5012-5020.	3.0	45
6	Dosimetry protocol for the forthcoming clinical trials in synchrotron stereotactic radiation therapy (SSRT). <i>Medical Physics</i> , 2011, 38, 1709-1717.	3.0	42
7	Dosimetric evaluation of new approaches in GRID therapy using nonconventional radiation sources. <i>Medical Physics</i> , 2015, 42, 685-693.	3.0	36
8	Monte Carloâ€œbased treatment planning system calculation engine for microbeam radiation therapy. <i>Medical Physics</i> , 2012, 39, 2829-2838.	3.0	34
9	Monte Carlo dose enhancement studies in microbeam radiation therapy. <i>Medical Physics</i> , 2011, 38, 4430-4439.	3.0	27
10	Potential High Resolution Dosimeters For MRT. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	25
11	Study of the biochemical effects induced by X-ray irradiations in combination with gadolinium nanoparticles in F98 glioma cells: first FTIR studies at the Emira laboratory of the SESAME synchrotron. <i>Analyst</i> , The, 2016, 141, 2238-2249.	3.5	17
12	COMPARISON OF RESPONSE OF PASSIVE DOSIMETRY SYSTEMS IN SCANNING PROTON RADIOTHERAPYâ€œA STUDY USING PAEDIATRIC ANTHROPOMORPHIC PHANTOMS. <i>Radiation Protection Dosimetry</i> , 2018, 180, 256-260.	0.8	16
13	Carbon and oxygen minibeam radiation therapy: An experimental dosimetric evaluation. <i>Medical Physics</i> , 2017, 44, 4223-4229.	3.0	15
14	Spatial fractionation of the dose using neon and heavier ions: A Monte Carlo study. <i>Medical Physics</i> , 2015, 42, 5928-5936.	3.0	14
15	Out-of-field doses for scanning proton radiotherapy of shallowly located paediatric tumoursâ€œa comparison of range shifter and 3D printed compensator. <i>Physics in Medicine and Biology</i> , 2021, 66, 035012.	3.0	13
16	Enhancement of the supercapacitive properties of laser deposited graphene-based electrodes through carbon nanotube loading and nitrogen doping. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25175-25186.	2.8	12
17	Scatter factors assessment in microbeam radiation therapy. <i>Medical Physics</i> , 2012, 39, 1234-1238.	3.0	11
18	Shikimic acid protects skin cells from UV-induced senescence through activation of the NAD ⁺ -dependent deacetylase SIRT1. <i>Aging</i> , 2021, 13, 12308-12333.	3.1	11

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19	Live-Cell Synchrotron-Based FTIR Evaluation of Metabolic Compounds in Brain Glioblastoma Cell Lines after Riluzole Treatment. <i>Analytical Chemistry</i> , 2022, 94, 1932-1940.	6.5	10
20	Study of the intracellular nanoparticle-based radiosensitization mechanisms in F98 glioma cells treated with charged particle therapy through synchrotron-based infrared microspectroscopy. <i>Analyst, The</i> , 2020, 145, 2345-2356.	3.5	9
21	A Potential Renewed Use of Very Heavy Ions for Therapy: Neon Minibeam Radiation Therapy. <i>Cancers</i> , 2021, 13, 1356.	3.7	9
22	Synchrotron-Based Fourier-Transform Infrared Micro-Spectroscopy (SR-FTIRM) Fingerprint of the Small Anionic Molecule Cobaltabis(dicarbollide) Uptake in Glioma Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9937.	4.1	9
23	Minibeam radiation therapy for the management of osteosarcomas: A Monte Carlo study. <i>Medical Physics</i> , 2014, 41, 061706.	3.0	7
24	Monte Carlo-based dose calculation engine for minibeam radiation therapy. <i>Physica Medica</i> , 2014, 30, 57-62.	0.7	7
25	Synchrotron-based infrared microspectroscopy study on the radiosensitization effects of Gd nanoparticles at megavoltage radiation energies. <i>Analyst, The</i> , 2019, 144, 5511-5520.	3.5	7
26	Medicated Scaffolds Prepared with Hydroxyapatite/Streptomycin Nanoparticles Encapsulated into Polylactide Microfibers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1282.	4.1	7
27	Technical Note: Implementation of biological washout processes within ^{40}K Monte Carlo study in the case of carbon therapy treatments. <i>Medical Physics</i> , 2015, 42, 1773-1778.	3.0	6
28	Dose evaluation of Grid Therapy using a 6 MV flattening filter-free (FFF) photon beam: A Monte Carlo study. <i>Medical Physics</i> , 2017, 44, 5378-5383.	3.0	6
29	A synchrotron-based infrared microspectroscopy study on the cellular response induced by gold nanoparticles combined with X-ray irradiations on F98 and U87-MG glioma cell lines. <i>Analyst, The</i> , 2019, 144, 6352-6364.	3.5	6
30	Laser fabrication of hybrid electrodes composed of nanocarbons mixed with cerium and manganese oxides for supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1192-1206.	10.3	6
31	Synchrotron Radiation Therapy from a Medical Physics point of view. , 2010, , .		5
32	Neutron Radiation Dose Measurements in a Scanning Proton Therapy Room: Can Parents Remain Near Their Children During Treatment?. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	5
33	Infrared microspectroscopy studies on the protective effect of curcumin coated gold nanoparticles against H_2O_2 -induced oxidative stress in human neuroblastoma SK-N-SH cells. <i>Analyst, The</i> , 2021, 146, 6902-6916.	3.5	4
34	Radiation Therapy Using Synchrotron Radiation: Preclinical Studies Toward Clinical Trials. <i>Synchrotron Radiation News</i> , 2011, 24, 8-12.	0.8	2
35	Hadron minibeam radiation therapy: feasibility study at the Heidelberg Ion-Beam Therapy Center (HIT). <i>Radiotherapy and Oncology</i> , 2016, 118, S70-S71.	0.6	2
36	Characterization of equipment for shaping and imaging hadron minibeam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 872, 119-125.	1.6	2

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37	Calibration of a Poly Allyl Diglycol Carbonate (PADC) based track-etched dosimeter in thermal neutron fields. <i>Radiation Measurements</i> , 2018, 119, 204-208.	1.4	2
38	Breaking photoswitch activation depth limit using ionising radiation stimuli adapted to clinical application. <i>Nature Communications</i> , 2022, 13, .	12.8	2
39	Medical Applications of Synchrotron Radiation. <i>Biological and Medical Physics Series</i> , 2012, , 433-444.	0.4	1
40	Experimental Approach to Evaluate the ¹¹ C Perfusion and Diffusion in Small Animal Tissues for HadronPET Applications. <i>PLoS ONE</i> , 2016, 11, e0151212.	2.5	1
41	SU-G-TeP3-09: Proton Minibeam Radiation Therapy Increases Normal Tissue Resistance. <i>Medical Physics</i> , 2016, 43, 3675-3676.	3.0	1
42	MONTE CARLO DOSIMETRY FOR THE CLINICAL TRIALS IN MICROBEAM RADIATION THERAPY. <i>Radiotherapy and Oncology</i> , 2009, 92, S71-S72.	0.6	0
43	MONTE CARLO DOSIMETRY TO PREPARE THE PRE-CLINICAL TRIALS IN MINIBEAM RADIATION THERAPY. <i>Radiotherapy and Oncology</i> , 2009, 92, S221.	0.6	0
44	1576 poster A TREATMENT PLANNING SYSTEM FOR CONTRAST-ENHANCED STEREOTACTIC SYNCHROTRON RADIATION THERAPY. <i>Radiotherapy and Oncology</i> , 2011, 99, S586.	0.6	0
45	1547 poster BENCHMARKING OF A TREATMENT PLANNING SYSTEM MONTE CARLO ENGINE FOR MICROBEAM RADIATION THERAPY. <i>Radiotherapy and Oncology</i> , 2011, 99, S576.	0.6	0
46	222 PREPARING THE FORTHCOMING MRT CLINICAL TRIALS: DEVELOPMENT OF A MC CALCULATION ENGINE FOR DOSE COMPUTATION. <i>Radiotherapy and Oncology</i> , 2012, 102, S112-S113.	0.6	0
47	FTIR Study of the Biochemical Effects Induced by X-Ray Irradiations Combined with GD Nanoparticles in F98 Glioma Cells. <i>Biophysical Journal</i> , 2016, 110, 475a.	0.5	0
48	TU-E-BRB-03: A Treatment Planning System for Contrast-Enhanced Stereotactic Synchrotron Radiation Therapy Clinical Trials. <i>Medical Physics</i> , 2011, 38, 3767-3767.	3.0	0