

# Yolanda Prezado

## List of Publications by Year in descending order

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104  
papers

2,157  
citations

218677

26  
h-index

254184

43  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revised rates for the stellar triple- $\alpha$ process from measurement of $^{12}\text{C}$ nuclear resonances. <i>Nature</i> , 2005, 433, 136-139.	27.8	205
2	Effects of pulsed, spatially fractionated, microscopic synchrotron X-ray beams on normal and tumoral brain tissue. <i>Mutation Research - Reviews in Mutation Research</i> , 2010, 704, 160-166.	5.5	177
3	Characterization and quantification of cerebral edema induced by synchrotron x-ray microbeam radiation therapy. <i>Physics in Medicine and Biology</i> , 2008, 53, 1153-1166.	3.0	87
4	Proton- $\mu$ minibeam radiation therapy: A proof of concept. <i>Medical Physics</i> , 2013, 40, 031712.	3.0	85
5	Shell Structure of the Near-Dripline Nucleus $^{23}\text{O}$ . <i>Physical Review Letters</i> , 2004, 93, 062501.	7.8	78
6	Proton minibeam radiation therapy spares normal rat brain: Long-Term Clinical, Radiological and Histopathological Analysis. <i>Scientific Reports</i> , 2017, 7, 14403.	3.3	75
7	Proton minibeam radiation therapy widens the therapeutic index for high-grade gliomas. <i>Scientific Reports</i> , 2018, 8, 16479.	3.3	61
8	Increase of lifespan for glioma-bearing rats by using minibeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 60-65.	2.4	59
9	Better Efficacy of Synchrotron Spatially Microfractionated Radiation Therapy Than Uniform Radiation Therapy on Glioma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 1485-1494.	0.8	59
10	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
11	Tolerance to Dose Escalation in Minibeam Radiation Therapy Applied to Normal Rat Brain: Long-Term Clinical, Radiological and Histopathological Analysis. <i>Radiation Research</i> , 2015, 184, 314-321.	1.5	57
12	Tumor Control in RG2 Glioma-Bearing Rats: A Comparison Between Proton Minibeam Therapy and Standard Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 104, 266-271.	0.8	56
13	FLASH and minibeam radiation therapy: the effect of microstructures on time and space and their potential application to proton therapy. <i>British Journal of Radiology</i> , 2020, 93, 20190807.	2.2	50
14	Gadolinium dose enhancement studies in microbeam radiation therapy. <i>Medical Physics</i> , 2009, 36, 3568-3574.	3.0	48
15	A new method of creating minibeam patterns for synchrotron radiation therapy: a feasibility study. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 582-586.	2.4	42
16	Properties of the $^{12}\text{C}$ 10 MeV state determined through $\beta^2$ -decay. <i>Nuclear Physics A</i> , 2005, 760, 3-18.	1.5	40
17	X-ray energy optimization in minibeam radiation therapy. <i>Medical Physics</i> , 2009, 36, 4897-4902.	3.0	40
18	Monte Carlo-based treatment planning system calculation engine for microbeam radiation therapy. <i>Medical Physics</i> , 2012, 39, 2829-2838.	3.0	34

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19	Preclinical radiotherapy at the Australian Synchrotron's Imaging and Medical Beamline: instrumentation, dosimetry and a small-animal feasibility study. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 854-865.	2.4	33
20	Short and long-term evaluation of the impact of proton minibeam radiation therapy on motor, emotional and cognitive functions. <i>Scientific Reports</i> , 2020, 10, 13511.	3.3	33
21	Large asymmetry in the strongest $\hat{I}^2$ -transition for A=9. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 576, 55-61.	4.1	32
22	First proton minibeam radiation therapy treatment plan evaluation. <i>Scientific Reports</i> , 2020, 10, 7025.	3.3	32
23	Implementation of planar proton minibeam radiation therapy using a pencil beam scanning system: A proof of concept study. <i>Medical Physics</i> , 2018, 45, 5305-5316.	3.0	29
24	Spatially fractionated proton minibeam. <i>British Journal of Radiology</i> , 2019, 92, 20180466.	2.2	28
25	Advancing proton minibeam radiation therapy: magnetically focussed proton minibeam at a clinical centre. <i>Scientific Reports</i> , 2020, 10, 1384.	3.3	28
26	Monte Carlo dose enhancement studies in microbeam radiation therapy. <i>Medical Physics</i> , 2011, 38, 4430-4439.	3.0	27
27	Optimization of the mechanical collimation for minibeam generation in proton minibeam radiation therapy. <i>Medical Physics</i> , 2017, 44, 1470-1478.	3.0	27
28	Synchrotron-Generated Microbeam Sensorimotor Cortex Transections Induce Seizure Control without Disruption of Neurological Functions. <i>PLoS ONE</i> , 2013, 8, e53549.	2.5	27
29	Low-lying resonance states in the $^9\text{Be}$ continuum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 618, 43-50.	4.1	25
30	Potential High Resolution Dosimeters For MRT. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	25
31	Synchrotron X-ray interlaced microbeams suppress paroxysmal oscillations in neuronal networks initiating generalized epilepsy. <i>Neurobiology of Disease</i> , 2013, 51, 152-160.	4.4	24
32	Biological equivalent dose studies for dose escalation in the stereotactic synchrotron radiation therapy clinical trials. <i>Medical Physics</i> , 2009, 36, 725-733.	3.0	23
33	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> , 2016, 141, 2238-2249.	3.5	17
34	Measurement of carbon ion microdosimetric distributions with ultrathin 3D silicon diodes. <i>Physics in Medicine and Biology</i> , 2016, 61, 4036-4047.	3.0	17
35	First Evaluation of Temporal and Spatial Fractionation in Proton Minibeam Radiation Therapy of Glioma-Bearing Rats. <i>Cancers</i> , 2021, 13, 4865.	3.7	17
36	Divide and conquer: spatially fractionated radiation therapy. <i>Expert Reviews in Molecular Medicine</i> , 2022, 24, .	3.9	17

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37	Survival Analysis of F98 Glioma Rat Cells Following Minibeam or Broad-Beam Synchrotron Radiation Therapy. <i>Radiation Oncology</i> , 2011, 6, 37.	2.7	15
38	Carbon and oxygen minibeam radiation therapy: An experimental dosimetric evaluation. <i>Medical Physics</i> , 2017, 44, 4223-4229.	3.0	15
39	Correlated emission of three $\hat{1}\pm$ -particles in the $\hat{1}^2$ -decay of $^{12}\text{N}$ . <i>European Physical Journal A</i> , 2002, 15, 135-138.	2.5	14
40	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
41	Spatial fractionation of the dose in heavy ions therapy: An optimization study. <i>Medical Physics</i> , 2018, 45, 2620-2627.	3.0	14
42	Improving the dose distributions in minibeam radiation therapy: Helium ions vs protons. <i>Medical Physics</i> , 2019, 46, 3640-3648.	3.0	14
43	X-rays minibeam radiation therapy at a conventional irradiator: Pilot evaluation in F98-glioma bearing rats and dose calculations in a human phantom. <i>Clinical and Translational Radiation Oncology</i> , 2021, 27, 44-49.	1.7	14
44	Spatially Modulated Proton Minibeams Results in the Same Increase of Lifespan as a Uniform Target Dose Coverage in F98-Glioma-Bearing Rats. <i>Radiation Research</i> , 2020, 194, 715-723.	1.5	14
45	Spatial fractionation of the dose in proton therapy: Proton minibeam radiation therapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2019, 23, 677-681.	1.4	13
46	News on $^{12}\text{C}$ from $\hat{1}^2$ -decay studies. <i>Nuclear Physics A</i> , 2004, 738, 59-65.	1.5	11
47	Photon activation therapy of RG2 glioma carrying Fischer rats using stable thallium and monochromatic synchrotron radiation. <i>Physics in Medicine and Biology</i> , 2012, 57, 8377-8391.	3.0	11
48	Scatter factors assessment in microbeam radiation therapy. <i>Medical Physics</i> , 2012, 39, 1234-1238.	3.0	11
49	Analysis of Platinum and Trace Metals in Treated Glioma Rat Cells by X-Ray Fluorescence Emission. <i>Biological Trace Element Research</i> , 2015, 163, 177-183.	3.5	10
50	Heterogeneous intratumoral distribution of gadolinium nanoparticles within U87 human glioblastoma xenografts unveiled by micro-PIXE imaging. <i>Analytical Biochemistry</i> , 2017, 523, 50-57.	2.4	10
51	Effect of X-ray minibeam radiation therapy on clonogenic survival of glioma cells. <i>Clinical and Translational Radiation Oncology</i> , 2018, 13, 7-13.	1.7	10
52	Impact of cardiosynchronous brain pulsations on Monte Carlo calculated doses for synchrotron micro- and minibeam radiation therapy. <i>Medical Physics</i> , 2018, 45, 3379-3390.	3.0	10
53	Minibeam radiation therapy: A micro- and nano- dosimetry Monte Carlo study. <i>Medical Physics</i> , 2020, 47, 1379-1390.	3.0	10
54	Theoretical dosimetric evaluation of carbon and oxygen minibeam radiation therapy. <i>Medical Physics</i> , 2017, 44, 1921-1929.	3.0	9

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55	A Potential Renewed Use of Very Heavy Ions for Therapy: Neon Minibeam Radiation Therapy. <i>Cancers</i> , 2021, 13, 1356.	3.7	9
56	New information on $^{12}\text{C}$ states from the decays of $^{12}\text{N}$ and $^{12}\text{B}$ . <i>Nuclear Physics A</i> , 2003, 718, 541-543.	1.5	8
57	Biomedical Research Programs at Present and Future High-Energy Particle Accelerators. <i>Frontiers in Physics</i> , 2020, 8, 00380.	2.1	8
58	Verification of a Monte Carlo dose calculation engine in proton minibeam radiotherapy in a passive scattering beamline for preclinical trials. <i>British Journal of Radiology</i> , 2020, 93, 20190578.	2.2	8
59	Monte Carlo Comparison of Proton and Helium-ion Minibeam Generation Techniques. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	8
60	Secondary neutron dose contribution from pencil beam scanning, scattered and spatially fractionated proton therapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 225010.	3.0	8
61	One-neutron knockout of $^{23}\text{O}$ . <i>European Physical Journal A</i> , 2005, 25, 343-346.	2.5	7
62	Monte Carlo-based dose calculation engine for minibeam radiation therapy. <i>Physica Medica</i> , 2014, 30, 57-62.	0.7	7
63	Conceptual Design of a Novel Nozzle Combined with a Clinical Proton Linac for Magnetically Focussed Minibeams. <i>Cancers</i> , 2021, 13, 4657.	3.7	7
64	A scanning dynamic collimator for spot-scanning proton minibeam production. <i>Scientific Reports</i> , 2021, 11, 18321.	3.3	7
65	Synchrotron radiation in cancer treatments and diagnostics: an overview. <i>Clinical and Translational Oncology</i> , 2011, 13, 715-720.	2.4	6
66	Metal micro-detector TimePix imaging synchrotron radiation beams at the ESRF Bio-Medical Beamline ID17. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 682, 8-11.	1.6	6
67	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
68	First theoretical determination of relative biological effectiveness of very high energy electrons. <i>Scientific Reports</i> , 2021, 11, 11242.	3.3	6
69	Preclinical dosimetry in proton minibeam radiation therapy: Robustness analysis and guidelines. <i>Medical Physics</i> , 2022, 49, 5551-5561.	3.0	6
70	The Clinical Trials Program at the ESRF Biomedical Beamline ID17: Status and Remaining Steps. <i>AIP Conference Proceedings</i> , 2010, .	0.4	5
71	Synchrotron Radiation Therapy from a Medical Physics point of view. , 2010, .		5
72	Minibeam radiation therapy at a conventional irradiator: Dose-calculation engine and first tumor-bearing animals irradiation. <i>Physica Medica</i> , 2020, 69, 256-261.	0.7	5

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73	Nuclear structure of light exotic nuclei from break-up reactions. Nuclear Physics A, 2004, 746, 479-482.	1.5	4
74	Clarification of the low-lying states of $^9\text{Be}$ . Physica Scripta, 2006, T125, 103-107.	2.5	4
75	The effect of beam polarization in Microbeam Radiation Therapy (MRT): Monte Carlo simulations using Geant4. , 2009, , .		4
76	EFOMP survey results on national radiotherapy dosimetry audits. Physica Medica, 2021, 84, 10-14.	0.7	4
77	The $\beta^-$ -decay of $^9\text{Li}$ to the high lying states in $^9\text{Be}$ . Nuclear Physics A, 2004, 746, 518-521.	1.5	3
78	Optics Design and Beam Dynamics simulation for a VHEE Radiobiology beam line at PRAE accelerator. Journal of Physics: Conference Series, 2019, 1350, 012200.	0.4	3
79	Proton minibeam radiation therapy: a promising therapeutic approach for radioresistant tumors. Comptes Rendus - Biologies, 2021, 344, 409-420.	0.2	3
80	Proton Minibeam Radiation Therapy and Arc Therapy: Proof of Concept of a Winning Alliance. Cancers, 2022, 14, 116.	3.7	3
81	Structure of neutron-rich oxygen isotopes. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1629-S1632.	3.6	2
82	Radiation Therapy Using Synchrotron Radiation: Preclinical Studies Toward Clinical Trials. Synchrotron Radiation News, 2011, 24, 8-12.	0.8	2
83	Characterization of equipment for shaping and imaging hadron minibeam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 872, 119-125.	1.6	2
84	The Biophysics Collaboration for research at FAIR and other new accelerator facilities. Europhysics News, 2019, 50, 27-30.	0.3	2
85	Converging Proton Minibeams with Magnetic Fields for Optimized Radiation Therapy: A Proof of Concept. Cancers, 2022, 14, 26.	3.7	2
86	Beta-Delayed Multiparticle Emission Studies at ISOL-type Facilities. Nuclear Physics A, 2004, 746, 243-247.	1.5	1
87	Medical Applications of Synchrotron Radiation. Biological and Medical Physics Series, 2012, , 433-444.	0.4	1
88	[1147] New approaches in radiotherapy: Spatial fractionation of the dose. Physica Medica, 2018, 52, 56.	0.7	1
89	PV-0569: Proton minibeam radiation therapy widens the therapeutic window for gliomas. Radiotherapy and Oncology, 2018, 127, S299-S300.	0.6	1
90	High-Energy Charged Particles for Spatially Fractionated Radiation Therapy. Frontiers in Physics, 2020, 8, .	2.1	1

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91	Editorial: Applied Nuclear Physics at Accelerators. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	1
92	Translational research in radiobiology in the framework of France HADRON national collaboration. <i>Translational Cancer Research</i> , 2017, 6, S795-S806.	1.0	1
93	Multiple particle break-up study of low excited states in $^9\text{Be}$ : The ghost peak in the $^8\text{Be}$ excitation energy spectrum revisited. <i>European Physical Journal: Special Topics</i> , 2007, 150, 137-138.	2.6	0
94	Particle Induced X-ray Emission Imaging of Gadolinium Distribution into Xenograft U87 Human Glioblastoma after AGuIX Nanoparticles Injection. <i>Microscopy and Microanalysis</i> , 2016, 22, 1094-1095.	0.4	0
95	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
96	Microdosimetry with micro-pattern silicon devices. , 2016, , .		0
97	Abstract ID: 80 Charged particles grid and minibeam radiation therapy: Monte Carlo dosimetry evaluations. <i>Physica Medica</i> , 2017, 42, 16.	0.7	0
98	[OA187] Transfer of minibeam radiation therapy into a cost-effective equipment: A proof of concept. <i>Physica Medica</i> , 2018, 52, 71-72.	0.7	0
99	[P128] Spatial fractionation of the dose in charged particle therapy: Dosimetry evaluations. <i>Physica Medica</i> , 2018, 52, 136.	0.7	0
100	[OA052] Proton minibeam radiation therapy: A promising alternative for high-grade gliomas. <i>Physica Medica</i> , 2018, 52, 22.	0.7	0
101	OC-0570 Dosimetric study to guide preclinical trials in proton minibeam radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 133, S299-S300.	0.6	0
102	Emerging neurosurgical applications of synchrotron-generated microbeams. <i>Cureus</i> , 2011, , .	0.5	0
103	SU-E-T-333: A New Approach in Radiation Therapy: Proton Grid Therapy. <i>Medical Physics</i> , 2013, 40, 281-281.	3.0	0
104	SU-E-T-531: Spatial Fractionation of the Dose in Heavy Ion Therapy. <i>Medical Physics</i> , 2013, 40, 327-327.	3.0	0