

# Guaciara M Santos

## List of Publications by Year in descending order

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90  
papers

3,988  
citations

109264

35  
h-index

128225

60  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4886  
citing authors

#	ARTICLE	IF	CITATIONS
1	ATMOSPHERIC RADIOCARBON FOR THE PERIOD 1950â€“2019. Radiocarbon, 2022, 64, 723-745.	0.8	117
2	Application of the ECT9 protocol for radiocarbon-based source apportionment of carbonaceous aerosols. Atmospheric Measurement Techniques, 2021, 14, 3481-3500.	1.2	12
3	Radiocarbon bomb-peak signal in tree-rings from the tropical Andes register low latitude atmospheric dynamics in the Southern Hemisphere. Science of the Total Environment, 2021, 774, 145126.	3.9	17
4	Growth Assessment of Native Tree Species from the Southwestern Brazilian Amazonia by Post-AD 1950 <sup>14</sup> C Analysis: Implications for Tropical Dendroclimatology Studies and Atmospheric <sup>14</sup> C Reconstructions. Forests, 2021, 12, 1177.	0.9	9
5	Enhanced El NiÃ±oâ€“Southern Oscillation Variability in Recent Decades. Geophysical Research Letters, 2020, 47, e2019GL083906.	1.5	85
6	Radiocarbon analysis confirms annual periodicity in Cedrela odorata tree rings from the equatorial Amazon. Quaternary Geochronology, 2020, 58, 101079.	0.6	23
7	Seasonal Cycle of Isotopeâ€“Based Source Apportionment of Elemental Carbon in Airborne Particulate Matter and Snow at Alert, Canada. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033125.	1.2	6
8	Assessment of the regional fossil fuel CO <sub>2</sub> distribution through <sup>13</sup> C patterns in ipÃª leaves: The case of Rio de Janeiro state, Brazil. City and Environment Interactions, 2019, 1, 100001.	1.8	10
9	Inter-comparison of elemental and organic carbon mass measurements from three North American national long-term monitoring networks at a co-located site. Atmospheric Measurement Techniques, 2019, 12, 4543-4560.	1.2	11
10	Source signatures from combined isotopic analyses of PM <sub>2.5</sub> carbonaceous and nitrogen aerosols at the peri-urban Taehwa Research Forest, South Korea in summer and fall. Science of the Total Environment, 2019, 655, 1505-1514.	3.9	17
11	Temporal deconvolution of vascular plant-derived fatty acids exported from terrestrial watersheds. Geochimica Et Cosmochimica Acta, 2019, 244, 502-521.	1.6	28
12	Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12419-12424.	3.3	52
13	Radiocarbon Dating and Intercomparison of Some Early Historical Radiocarbon Samples. Radiocarbon, 2018, 60, 535-548.	0.8	13
14	Misunderstandings Concerning the Significance of AMS Background <sup>14</sup> C Measurements. Radiocarbon, 2018, 60, 727-749.	0.8	2
15	When the carbon being dated is not what you think it is: Insights from phytolith carbon research. Quaternary Science Reviews, 2018, 197, 162-174.	1.4	11
16	Determining VOCs Reactivity for Ozone Forming Potential in the Megacity of SÃ£o Paulo. Aerosol and Air Quality Research, 2018, 18, 2460-2474.	0.9	32
17	The phytolith carbon sequestration concept: Fact or fiction? A comment on â€œOccurrence, turnover and carbon sequestration potential of phytoliths in terrestrial ecosystems by Song et al. doi: 10.1016/j.earscirev.2016.04.007â€“, Earth-Science Reviews, 2017, 164, 251-255.	4.0	23
18	Dynamic Nuclear Polarization NMR as a new tool to investigate the nature of organic compounds occluded in plant silica particles. Scientific Reports, 2017, 7, 3430.	1.6	4

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19	Reassessment of the $^{13}\text{C}/^{12}\text{C}$ and $^{14}\text{C}/^{12}\text{C}$ isotopic fractionation ratio and its impact on high-precision radiocarbon dating. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 330-345.	1.6	9
20	Bag of Tricks: A Set of Techniques and other Resources to Help $^{14}\text{C}$ Laboratory Setup, Sample Processing, and Beyond. <i>Radiocarbon</i> , 2017, 59, 785-801.	0.8	19
21	Using radiocarbon to constrain black and organic carbon aerosol sources in Salt Lake City. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9843-9857.	1.2	16
22	Nonannual tree rings in a climate-sensitive <i>Prioria copaifera</i> chronology in the Atrato River, Colombia. <i>Ecology and Evolution</i> , 2017, 7, 6334-6345.	0.8	14
23	Does Cedrela always form annual rings? Testing ring periodicity across South America using radiocarbon dating. <i>Trees - Structure and Function</i> , 2017, 31, 1999-2009.	0.9	45
24	The local marine reservoir effect at Kalba (UAE) between the Neolithic and Bronze Age: An indicator of sea level and climate changes. <i>Quaternary Geochronology</i> , 2017, 42, 105-116.	0.6	26
25	Main ozone-forming VOCs in the city of Sao Paulo: observations, modelling and impacts. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 421-435.	1.5	28
26	Unambiguous evidence of old soil carbon in grass biosilica particles. <i>Biogeosciences</i> , 2016, 13, 1269-1286.	1.3	33
27	Direct uptake of organically derived carbon by grass roots and allocation in leaves and phytoliths: $^{13}\text{C}$ labeling evidence. <i>Biogeosciences</i> , 2016, 13, 1693-1703.	1.3	28
28	Preparation for Radiocarbon Analysis. , 2016, , 279-315.		5
29	A comparison of $^{234}\text{U}/^{238}\text{U}$ and rapid-screen $^{14}\text{C}$ dates from $^{13}\text{C}$ -depleted fossil corals. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 833-845.	1.0	16
30	From radiocarbon analysis to interpretation: A comment on "Phytolith Radiocarbon Dating in Archaeological and Paleoecological Research: A Case Study of Phytoliths from Modern Neotropical Plants and a Review of the Previous Dating Evidence", <i>Journal of Archaeological Science</i> (2015), doi: 10.1016/j.jas.2015.06.002. by Dolores R. Piperno. <i>Journal of Archaeological Science</i> , 2016, 71, 51-58.	1.2	7
31	Black carbon aerosol dynamics and isotopic composition in Alaska linked with boreal fire emissions and depth of burn in organic soils. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1977-2000.	1.9	23
32	Improved radiocarbon analyses of modern human hair to determine the year of death by cross-flow nanofiltered amino acids: common contaminants, implications for isotopic analysis, and recommendations. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1765-1773.	0.7	15
33	New highlights of phytolith structure and occluded carbon location: 3-D X-ray microscopy and NanoSIMS results. <i>Biogeosciences</i> , 2015, 12, 863-873.	1.3	71
34	Accuracy and precision of $^{14}\text{C}$ -based source apportionment of organic and elemental carbon in aerosols using the Swiss_4S protocol. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3729-3743.	1.2	9
35	Plant growth conditions alter phytolith carbon. <i>Frontiers in Plant Science</i> , 2015, 6, 753.	1.7	30
36	Matching Dendrochronological Dates with the Southern Hemisphere $^{14}\text{C}$ Bomb Curve to Confirm Annual Tree Rings in <i>Pseudolmedia rigida</i> from Bolivia. <i>Radiocarbon</i> , 2015, 57, 1-13.	0.8	54

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37	Advances in the graphitization protocol at the Radiocarbon Laboratory of the Universidade Federal Fluminense (LAC-UFF) in Brazil. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 402-405.	0.6	27
38	Annual nature of the growth rings of Araucaria araucana confirmed by radiocarbon analysis. Quaternary Geochronology, 2015, 30, 42-47.	0.6	10
39	Radiocarbon measurements at LAC-UFF: Recent performance. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 341-345.	0.6	12
40	Annual growth rings in a sample of Paran pine (Araucaria angustifolia): Toward improving the <sup>14</sup> C calibration curve for the Southern Hemisphere. Quaternary Geochronology, 2015, 25, 96-103.	0.6	40
41	Rapid sample preparation of dissolved inorganic carbon in natural waters using a headspace extraction approach for radiocarbon analysis by accelerator mass spectrometry. Limnology and Oceanography: Methods, 2014, 12, 174-190.	1.0	30
42	Blank Corrections for Ramped Pyrolysis Radiocarbon Dating of Sedimentary and Soil Organic Carbon. Analytical Chemistry, 2014, 86, 12085-12092.	3.2	27
43	<sup>14</sup> C Measurements Elucidate Isotopic Differences between Nails and Hair in Modern Humans. Radiocarbon, 2014, 56, 53-65.	0.8	3
44	Understanding Holocene variations in the vegetation of Sao Joao River basin, southeastern coast of Brazil, using phytolith and carbon isotopic analyses. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 415, 59-68.	1.0	23
45	Investigating <sup>13</sup> C and <sup>14</sup> C within <i>Mytilus californianus</i> shells as proxies of upwelling intensity. Geochemistry, Geophysics, Geosystems, 2013, 14, 1856-1865.	1.0	10
46	Towards producing pure phytolith concentrates from plants that are suitable for carbon isotopic analysis. Review of Palaeobotany and Palynology, 2013, 197, 179-185.	0.8	53
47	Age of riverine carbon suggests rapid export of terrestrial primary production in tropics. Geophysical Research Letters, 2013, 40, 5687-5691.	1.5	38
48	Behavioral Variability in ABA Chemical Pretreatment Close to the <sup>14</sup> C Age Limit. Radiocarbon, 2013, 55, 534-544.	0.8	45
49	Simple, Rapid, and Cost Effective: A Screening Method for <sup>14</sup> C Analysis of Small Carbonate Samples. Radiocarbon, 2013, 55, 631-640.	0.8	43
50	Intercomparison of <sup>14</sup> C Analysis of Carbonaceous Aerosols: Exercise 2009. Radiocarbon, 2013, 55, 1496-1509.	0.8	23
51	Behavioral Variability in ABA Chemical Pretreatment Close to the <sup>14</sup> C Age Limit. Radiocarbon, 2013, 55, .	0.8	7
52	Simple, Rapid, and Cost Effective: A Screening Method for <sup>14</sup> C Analysis of Small Carbonate Samples. Radiocarbon, 2013, 55, .	0.8	3
53	Re-anchoring the late Pleistocene tephrochronology of New Zealand based on concordant radiocarbon ages and combined <sup>238</sup> U/ <sup>230</sup> Th disequilibrium and (U-Th)/He zircon ages. Earth and Planetary Science Letters, 2012, 349-350, 240-250.	1.8	108
54	Method development for <sup>234</sup> U and <sup>230</sup> Th determination and application to fossil deep-water coral and authigenic carbonate dating from the Campos Basin - Brazil. Journal of the Brazilian Chemical Society, 2012, 23, 538-545.	0.6	2

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55	Possible source of ancient carbon in phytolith concentrates from harvested grasses. <i>Biogeosciences</i> , 2012, 9, 1873-1884.	1.3	55
56	Blank Assessment for Ultra-Small Radiocarbon Samples: Chemical Extraction and Separation Versus AMS. <i>Radiocarbon</i> , 2010, 52, 1322-1335.	0.8	92
57	The Phytolith <sup>14</sup> C Puzzle: A Tale of Background Determinations and Accuracy Tests. <i>Radiocarbon</i> , 2010, 52, 113-128.	0.8	73
58	Recent (<math>\approx 4</math> year old) leaf litter is not a major source of microbial carbon in a temperate forest mineral soil. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1028-1037.	4.2	116
59	The Keck Carbon Cycle AMS Laboratory, University of California, Irvine: Status Report. <i>Radiocarbon</i> , 2010, 52, 301-309.	0.8	74
60	HPLC Purification of Higher Plant-Derived Lignin Phenols for Compound Specific Radiocarbon Analysis. <i>Analytical Chemistry</i> , 2010, 82, 8931-8938.	3.2	31
61	Deep sea corals off Brazil verify a poorly ventilated Southern Pacific Ocean during H2, H1 and the Younger Dryas. <i>Earth and Planetary Science Letters</i> , 2010, 293, 269-276.	1.8	63
62	Palaeodietary inferences based on isotopic data for pre-Hispanic populations of the Central Mountains of Argentina. <i>International Journal of Osteoarchaeology</i> , 2009, 19, 237-249.	0.6	21
63	A new look at old carbon in active margin sediments. <i>Geology</i> , 2009, 37, 239-242.	2.0	78
64	AMS <sup>14</sup> C Sample Preparation at the KCCAMS/UCI Facility: Status Report and Performance of Small Samples. <i>Radiocarbon</i> , 2007, 49, 255-269.	0.8	106
65	Life with MC-SNICS. Part II: Further ion source development at the Keck carbon cycle AMS facility. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 259, 88-93.	0.6	72
66	Evaluation of iron and cobalt powders as catalysts for <sup>14</sup> C-AMS target preparation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 259, 308-315.	0.6	41
67	Ultra small-mass AMS <sup>14</sup> C sample preparation and analyses at KCCAMS/UCI Facility. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 259, 293-302.	0.6	225
68	<sup>234</sup> U and <sup>230</sup> Th determination by FIA-ICP-MS and application to uranium-series disequilibrium in marine samples. <i>Journal of Environmental Radioactivity</i> , 2006, 88, 109-117.	0.9	20
69	Quantifying archaeal community autotrophy in the mesopelagic ocean using natural radiocarbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6442-6447.	3.3	413
70	Ion Source Development at Kccams, University of California, Irvine. <i>Radiocarbon</i> , 2004, 46, 33-39.	0.8	60
71	The Keck Carbon Cycle AMS Laboratory, University of California, Irvine: Initial Operation and a Background Surprise. <i>Radiocarbon</i> , 2004, 46, 41-49.	0.8	122
72	Magnesium Perchlorate as an Alternative Water Trap in AMS Graphite Sample Preparation: A Report On Sample Preparation at Kccams at the University of California, Irvine. <i>Radiocarbon</i> , 2004, 46, 165-173.	0.8	145

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73	Applications of AMS $^{14}\text{C}$ Measurements in Environmental and Economical Problems. Nuclear Physics A, 2004, 734, E116-E119.	0.6	2
74	Use of $^{14}\text{C}$ -AMS in the study of biological production in coastal upwelling areas. Brazilian Journal of Physics, 2004, 34, 732-736.	0.7	5
75	Radiocarbon dating from 40 to 60kaBP at Border Cave, South Africa. Quaternary Science Reviews, 2003, 22, 943-947.	1.4	81
76	A revised chronology of the lowest occupation layer of Pedra Furada Rock Shelter, Piauí, Brazil: the Pleistocene peopling of the Americas. Quaternary Science Reviews, 2003, 22, 2303-2310.	1.4	61
77	Buang Merabak: Early Evidence For Human Occupation In The Bismarck Archipelago, Papua New Guinea. Australian Archaeology, 2002, 54, 55-57.	0.3	56
78	Radiocarbon Dating of the Human Occupation of Australia Prior to 40 ka BP—Successes and Pitfalls. Radiocarbon, 2001, 43, 1139-1145.	0.8	46
79	Radiocarbon Dating of Wood Using Different Pretreatment Procedures: Application to the Chronology of Rotoehu Ash, New Zealand. Radiocarbon, 2001, 43, 239-248.	0.8	52
80	Development of a Robust $^{14}\text{C}$ Chronology for Lynch's Crater (North Queensland). Overlock, 1999, 10, 50-60.	0.8	29
81	Chronology of the Atmospheric Mercury in Lagoa da Pata Basin, Upper Rio Negro Region of Brazilian Amazon. Radiocarbon, 2001, 43, 801-808.	0.8	32
82	Redating the onset of burning at Lynch's Crater (North Queensland): implications for human settlement in Australia. Journal of Quaternary Science, 2001, 16, 767-771.	1.1	109
83	Analysis of plutonium isotopes in marine samples by radiometric, ICP-MS and AMS techniques. Journal of Radioanalytical and Nuclear Chemistry, 2001, 248, 757-764.	0.7	93
84	Current status of the Brazilian AMS program. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 82-86.	0.6	5
85	$^{14}\text{C}$ AMS dating of fires in the central Amazon rain forest. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 761-766.	0.6	31
86	The Brazilian Bragg curve detector built for AMS studies. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 310-315.	0.6	5
87	Influence of the breakup process on the near barrier elastic scattering by heavy nuclei. Physical Review C, 1999, 59, 2103-2107.	1.1	115
88	Elastic, inelastic scattering and fusion of the $^{14}\text{N} + ^{59}\text{Co}$ system at energies close to the coulomb barrier. European Physical Journal A, 1998, 1, 143-149.	1.0	9
89	Elastic scattering of $^{27}\text{Al} + ^{27}\text{Al}$ at near barrier energies. Physical Review C, 1998, 58, 3445-3450.	1.1	5
90	Brazilian accelerator mass spectrometry program. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 34-38.	0.6	7