

# Antonio Paz González

## List of Publications by Year in descending order

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111  
papers

1,944  
citations

279798

23  
h-index

302126

39  
g-index

113  
all docs

113  
docs citations

113  
times ranked

2079  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of cultivation on the spatial variability of selected properties of an umbric horizon. <i>Geoderma</i> , 2000, 97, 273-292.	5.1	140
2	Organic Matter and Aggregate Size Interactions in Saturated Hydraulic Conductivity. <i>Soil Science Society of America Journal</i> , 2004, 68, 234-242.	2.2	132
3	Characterizing anisotropy and heterogeneity of soil surface microtopography using fractal models. <i>Ecological Modelling</i> , 2005, 182, 337-353.	2.5	100
4	Soil structure changes: aggregate size and soil texture effects on hydraulic conductivity under different saline and sodic conditions. <i>Soil Research</i> , 2009, 47, 688.	1.1	77
5	Multifractal characterization of saprolite particle-size distributions after topsoil removal. <i>Geoderma</i> , 2006, 134, 373-385.	5.1	71
6	Multifractal Analysis of Pore Size Distributions as Affected by Simulated Rainfall. <i>Vadose Zone Journal</i> , 2008, 7, 500-511.	2.2	71
7	Analysis of the spatial variability of crop yield and soil properties in small agricultural plots. <i>Bragantia</i> , 2003, 62, 127-138.	1.3	67
8	Ephemeral gully erosion in northwestern Spain. <i>Catena</i> , 2003, 50, 199-216.	5.0	65
9	Evaluation of soil degradation produced by rice crop systems in a Vertisol, using a soil quality index. <i>Catena</i> , 2017, 150, 79-86.	5.0	54
10	Soil erosion under simulated rainfall in relation to phenological stages of soybeans and tillage methods in Lages, SC, Brazil. <i>Soil and Tillage Research</i> , 2009, 103, 216-221.	5.6	47
11	Routine soil testing to monitor heavy metals and boron. <i>Scientia Agricola</i> , 2005, 62, 564-571.	1.2	45
12	Phosphorus losses in water and sediments in runoff of the water erosion in oat and vetch crops seed in contour and downhill. <i>Soil and Tillage Research</i> , 2009, 106, 22-28.	5.6	43
13	Geostatistical analysis of heavy metals in a one-hectare plot under natural vegetation in a serpentine area. <i>Canadian Journal of Soil Science</i> , 2001, 81, 469-479.	1.2	41
14	Jack knifing for semivariogram validation. <i>Bragantia</i> , 2010, 69, 97-105.	1.3	41
15	RecuperaçãŁo de um solo degradado com a aplicaçãŁo de adubos verdes e lodo de esgoto. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008, 32, 405-416.	1.3	36
16	DTPA AND MEHLICH-3 MICRONUTRIENT EXTRACTABILITY IN NATURAL SOILS. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 2879-2893.	1.4	35
17	Trace Elements Extracted by DTPA and Mehlich-3 from Agricultural Soils with and without Compost Additions. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 717-727.	1.4	34
18	Pb-phytoextraction by maize in a Pb-EDTA treated Oxisol. <i>Scientia Agricola</i> , 2007, 64, 52-60.	1.2	28

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19	Detrending non stationary data for geostatistical applications. <i>Bragantia</i> , 2010, 69, 01-08.	1.3	28
20	Effect of tillage on fractal indices describing soil surface microrelief of a Brazilian Alfisol. <i>Geoderma</i> , 2006, 134, 428-439.	5.1	27
21	Relações da rugosidade superficial do solo com o volume de chuva e com a estabilidade de agregados em água. <i>Revista Brasileira De Ciencia Do Solo</i> , 2006, 30, 543-553.	1.3	27
22	Describing soil surface microrelief by crossover length and fractal dimension. <i>Nonlinear Processes in Geophysics</i> , 2007, 14, 223-235.	1.3	27
23	Erosivity of rainfall in Lages, Santa Catarina, Brazil. <i>Revista Brasileira De Ciencia Do Solo</i> , 2014, 38, 1890-1905.	1.3	27
24	EFFICIENCY OF MULTINUTRIENT EXTRACTANTS FOR THE DETERMINING OF AVAILABLE ZINC IN SOILS. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 3313-3324.	1.4	25
25	Shadow analysis of soil surface roughness compared to the chain set method and direct measurement of micro-relief. <i>Biogeosciences</i> , 2010, 7, 2477-2487.	3.3	23
26	Depth distribution of soil organic carbon in an Oxisol under different land uses: Stratification indices and multifractal analysis. <i>Geoderma</i> , 2017, 287, 126-134.	5.1	21
27	Multifractal Analysis of Soil Properties along Two Perpendicular Transects. <i>Vadose Zone Journal</i> , 2013, 12, 1-13.	2.2	20
28	Multifractal and joint multifractal analysis of general soil properties and altitude along a transect. <i>Biosystems Engineering</i> , 2018, 168, 105-120.	4.3	20
29	Soil tillage, water erosion, and calcium, magnesium and organic carbon losses. <i>Scientia Agricola</i> , 2005, 62, 578-584.	1.2	20
30	Levels of Heavy metals (Co, Cu, Cr, Ni, Pb, and Zn) in agricultural soils of Northwest Spain. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 1773-1783.	1.4	17
31	Assessing the Spatial Uncertainty of Mapping Trace Elements in Cultivated Fields. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 253-274.	1.4	17
32	Crop Residue Effects on Organic Carbon, Nitrogen, and Phosphorus Concentrations and Loads in Runoff Water. <i>Communications in Soil Science and Plant Analysis</i> , 2009, 40, 200-213.	1.4	17
33	Consistency analysis of pluviometric information in Galicia (NW Spain). <i>Atmospheric Research</i> , 2009, 94, 629-640.	4.1	17
34	Comparison of Methods to Quantify Organic Carbon in Soil Samples from São Paulo State, Brazil. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 429-439.	1.4	17
35	Efeito de escarificação e da erosividade de chuvas sobre algumas variáveis de valores de erosão hídrica em sistemas de manejo de um nitossolo háplico. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008, 32, 747-757.	1.3	17
36	Total and Extractable Nickel and Cadmium Contents in Natural Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 241-252.	1.4	15

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37	Effects on the composition and structural properties of the humified organic matter of soil in sugarcane strawburning: A chronosequence study in the Brazilian Cerrado of Goiás State. <i>Agriculture, Ecosystems and Environment</i> , 2016, 216, 34-43.	5.3	14
38	Estimating soil organic matter using interpolation methods with a electromagnetic induction sensor and topographic parameters: a case study in a humid region. <i>Precision Agriculture</i> , 2017, 18, 882-897.	6.0	14
39	Erodibilidade de um nitossolo hplico alumnico determinada em condies de campo. <i>Revista Brasileira De Ciencia Do Solo</i> , 2007, 31, 541-549.	1.3	13
40	Soil water regime under pasture in the humid zone of spain: Validation of an empirical model and prediction of irrigation requirements. <i>Agricultural Water Management</i> , 1996, 29, 147-161.	5.6	12
41	Spatial variability of soil penetration resistance influenced by season of sampling. <i>Bragantia</i> , 2010, 69, 163-173.	1.3	12
42	Multifractal Analysis of Vertical Profiles of Soil Penetration Resistance at Varying Water Contents. <i>Vadose Zone Journal</i> , 2016, 15, 1-10.	2.2	12
43	What is the impact of pasture reform on organic carbon compartments and CO2 emissions in the Brazilian Cerrado?. <i>Catena</i> , 2020, 194, 104702.	5.0	11
44	Erodibilidade de um Cambissolo Hmico sob chuva natural. <i>Revista Brasileira De Ciencia Do Solo</i> , 2014, 38, 1906-1917.	1.3	11
45	Fractal dimension and geostatistical parameters for soil microrelief as a function of cumulative precipitation. <i>Scientia Agricola</i> , 2010, 67, 78-83.	1.2	11
46	Temporal and spatial persistence in rainfall records from Northeast Brazil and Galicia (Spain). <i>Theoretical and Applied Climatology</i> , 2004, 77, 113-121.	2.8	10
47	Rugosidade superficial do solo sob diferentes doses de resduo de milho submetido  chuva simulada. <i>Pesquisa Agropecuria Brasileira</i> , 2007, 42, 103-110.	0.9	10
48	Impacts of Land Use Changes on Soil Properties and Processes. <i>Scientific World Journal</i> , The, 2014, 2014, 1-2.	2.1	10
49	Estoque de C e Abundncia Natural de 13C em Razo da Converso de reas de Floresta e Pastagem em Bioma Mata Atlntica. <i>Revista Brasileira De Ciencia Do Solo</i> , 2015, 39, 1643-1660.	1.3	10
50	Geostatistical analysis of microrelief of an oxisol as a function of tillage and cumulative rainfall. <i>Scientia Agricola</i> , 2009, 66, 225-232.	1.2	9
51	Phosphorus Contents and Loads at the Outlet of an Agroforestry Catchment in Northwestern Spain. <i>Communications in Soil Science and Plant Analysis</i> , 2009, 40, 660-671.	1.4	9
52	Concentrated flow erosion as a main source of sediments in Galicia, Spain. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 2087-2095.	2.5	9
53	Variabilidade espacial e temporal do teor de gua do solo sob duas formas de uso. <i>Bragantia</i> , 2010, 69, 181-190.	1.3	9
54	Effects of machinery trafficking in an agricultural soil assessed by Electrical Resistivity Tomography (ERT). <i>Open Agriculture</i> , 2018, 3, 378-385.	1.7	9

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55	Sedimentos transportados pela enxurrada em eventos de erosão hídrica em um Nitossolo Háplico. Revista Brasileira De Ciencia Do Solo, 2010, 34, 245-252.	1.3	8
56	Crecimiento en clavel estándar cv. Nelson, en suelo y en sustratos. Bragantia, 2010, 69, 1-8.	1.3	8
57	Crop Residue Effects on Calcium, Magnesium, Potassium, and Sodium Runoff Losses from a Soil Prone to Crusting. Communications in Soil Science and Plant Analysis, 2012, 43, 315-323.	1.4	8
58	Fractal Description of the Spatial and Temporal Variability of Soil Water Content Across an Agricultural Field. Soil Science, 2012, 177, 131-138.	0.9	8
59	Data quality assessment and monthly stability of ground solar radiation in Galicia (NW Spain). Solar Energy, 2012, 86, 3499-3511.	6.1	8
60	Variabilidade espacial da rugosidade superficial do solo medida com rugômetros de agulhas e laser. Bragantia, 2000, 59, 227-234.	1.3	7
61	Parâmetros relacionados com a erosão hídrica sob taxa constante da enxurrada, em diferentes métodos de preparo do solo. Revista Brasileira De Ciencia Do Solo, 2006, 30, 715-722.	1.3	7
62	Directional Wavelets and a Wavelet Variogram for Two-Dimensional Data. Mathematical Geosciences, 2009, 41, 611-641.	2.4	7
63	Mapping Soil Texture Using Geostatistical Interpolation Combined With Electromagnetic Induction Measurements. Soil Science, 2017, 182, 278-284.	0.9	7
64	Aggregation and dynamics of soil organic matter under different management systems in the Brazilian Cerrado. Soil Research, 2021, 59, 715-726.	1.1	7
65	Comparing multifractal characteristics of soil particle size distributions calculated by Mie and Fraunhofer models from laser diffraction measurements. Applied Mathematical Modelling, 2021, 94, 36-48.	4.2	7
66	Correlação entre produção de feijão e atributos físicos de um Latossolo em Mato Grosso do Sul. Revista Ceres, 2013, 60, 772-784.	0.4	7
67	Water erosion in no-tillage monoculture and intercropped systems along contour lines. Revista Brasileira De Ciencia Do Solo, 2013, 37, 521-528.	1.3	7
68	Comparing effects of tillage treatments performed with animal traction on soil physical properties and soil electrical resistivity: preliminary experimental results. Open Agriculture, 2017, 2, 317-328.	1.7	7
69	EFICACIA DE CUATRO EXTRACTANTES EN LA EVALUACIÓN DE LA DISPONIBILIDAD DE COBRE PARA MAÍZ Y SOJA. Bragantia, 2001, 60, 205-212.	1.3	6
70	Influence of Biosolids Rate on Chemical Properties of an Oxisol in São Paulo, Brazil. Communications in Soil Science and Plant Analysis, 2006, 37, 2481-2493.	1.4	6
71	Heavy Metal Losses from an Agroforestry Catchment. Communications in Soil Science and Plant Analysis, 2006, 37, 2745-2750.	1.4	6
72	The effects of applied crop residues on losses of Fe, Mn, Cu and Zn in runoff from a soil prone to crusting. Soil Use and Management, 2009, 25, 193-200.	4.9	6

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73	Graph theory defining non-local dependency of rainfall in Northeast Brazil. <i>Ecological Complexity</i> , 2009, 6, 272-277.	2.9	6
74	Multifractal Analysis of Nitrogen Adsorption Isotherms Obtained from Organoclays Exposed to Different Temperatures. <i>Vadose Zone Journal</i> , 2013, 12, 1-13.	2.2	6
75	Statistical Methods for Evaluating Results from Soil Micronutrient Analyses in Interlaboratory Programs. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 57-71.	1.4	6
76	Ecosystem Services and Economic Assessment of Land Uses in Urban and Periurban Areas. <i>Environmental Management</i> , 2020, 65, 355-368.	2.7	6
77	Sediment transport in runoff on rugous soil surface submitted to simulated rainfall. <i>Scientia Agricola</i> , 2010, 67, 591-597.	1.2	6
78	Data presentation, interpretation, and communication. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 2135-2146.	1.4	5
79	Teor de nitrogênio solúvel na água de erosão hídrica em cultura de aveia e ervilhaca em três formas de semeadura. <i>Revista Brasileira De Ciencia Do Solo</i> , 2009, 33, 439-446.	1.3	5
80	Assessment of Solar Irradiation Models in A Coruña by Multifractal Analysis. <i>Vadose Zone Journal</i> , 2013, 12, 1-10.	2.2	5
81	Combining global and local scaling methods to detect soil pore space. <i>Journal of Geochemical Exploration</i> , 2018, 189, 72-84.	3.2	5
82	Indicadores de sostenibilidad sociales y económicos: Caso productores de cacao en El Oro, Ecuador. // Indicators of sustainability social and economic: Case cocoa farmers of El Oro, Ecuador.. <i>Ciencia UNEMI</i> , 2018, 11, 20-29.	0.1	5
83	NUTRIENT STATUS ON AN ACID SOIL AS AFFECTED BY LIME AMENDMENTS AFTER FLOODING. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 3007-3014.	1.4	4
84	Spatial soil sampling design using apparent soil electrical conductivity measurements. <i>Bragantia</i> , 2016, 75, 459-473.	1.3	4
85	Organic phosphorus fractions in soil chronosequence of cane sugar in burnt savannah goiano. <i>Bioscience Journal</i> , 0, , 436-445.	0.4	4
86	PRODUÇÃO E DEPOSIÇÃO DE SEDIMENTOS EM UMA SUB-BACIA HIDROGRÁFICA COM SOLOS SUSCETÁVEIS À EROSIÃO. <i>Irriga</i> , 2016, 21, 284.	0.1	4
87	PEDOTRANSFER FUNCTION TO ESTIMATE THE SOIL STRUCTURAL INDEX AND SPATIAL VARIABILITY IN AN OXISOL WITHIN A LIVESTOCK FARMING SYSTEM. <i>Engenharia Agricola</i> , 2020, 40, 34-44.	0.7	4
88	Reavaliação dos critérios constantes na legislação brasileira para análises de substratos. <i>Bragantia</i> , 2012, 71, 106-111.	1.3	4
89	Quest of Water Extract Analysis of Micronutrients in Soilless Organic Substrates. <i>Communications in Soil Science and Plant Analysis</i> , 2006, 37, 2327-2338.	1.4	3
90	Using geostatistics for assessing biodiversity of forest reserve areas. <i>Bragantia</i> , 2010, 69, 131-140.	1.3	3

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91	Crop Residue Effects on Total and Dissolved Losses of Fe, Mn, Cu, and Zn by Runoff. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 272-282.	1.4	3
92	Multifractal and joint multifractal analysis of soil micronutrients extracted by two methods along a transect in a coarse textured soil. <i>European Journal of Soil Science</i> , 2021, 72, 608-622.	3.9	3
93	Alterations and spatial variability of soil fertility in successive years under no tillage system. <i>Bragantia</i> , 2010, 69, 29-38.	1.3	2
94	Improving collected rainwater quality in rural communities. <i>Water Science and Technology</i> , 2011, 63, 2395-2402.	2.5	2
95	Fósforo em cronosequência de cana-de-açúcar queimada no cerrado goiano: análise de ácidos húmicos por RMN de <sup>31</sup> P. <i>Química Nova</i> , 2013, 36, 1126-1130.	0.3	2
96	Horizontes diagnósticos superficiais de Cambissolos e uso de <sup>13</sup> C como atributo complementar na classificação de solos. <i>Pesquisa Agropecuária Brasileira</i> , 2016, 51, 1339-1348.	0.9	2
97	Edaphic forms of phosphorus in no-tillage cropping sequences in the Argentine southern central Pampas. <i>Geoderma</i> , 2018, 323, 107-115.	5.1	2
98	Multifractal and joint multifractal description of available nutrients concentrations extracted by two methods along short transects. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 236-249.	2.6	2
99	Relations between the yield of bean ( <i>Phaseolus vulgaris</i> L.) and chemical attributes of an Acrustox under no-tillage. <i>Journal of Soil Science and Plant Nutrition</i> , 2013, , 0-0.	3.4	2
100	Assessment of the spatial variability of soil chemical properties along a transect using multifractal analysis. <i>Cadernos Do Laboratorio Xeoloxico De Laxe</i> , 0, 38, 11-24.	0.0	2
101	Soil fauna: Bioindicator of soil recovery in Brazilian savannah. <i>Revista Brasileira de Ciências Agrárias</i> , 2017, 12, 236-243.	0.2	2
102	Lattice model for approximate self-affine soil profiles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 295, 64-70.	2.6	1
103	Long-Term Concentrations and Loads of Four Dissolved Macronutrients from Two Agroforestry Catchments in NW Spain. <i>Hydrology</i> , 2021, 8, 96.	3.0	1
104	Morfologia da camada de açúcar en la preparación profunda del suelo en canteros. <i>Idesia</i> , 2015, 33, 23-29.	0.3	1
105	Determinación de campos areales de precipitación y evapotranspiración en la margen izquierda de la cuenca del Paraná en territorio de Argentina. I: polígonos de Thiessen y kriging. <i>Cadernos Do Laboratorio Xeoloxico De Laxe</i> , 0, 41, 75-97.	0.0	1
106	Reforested soil under drip irrigation with treated wastewater from poultry slaughterhouse. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , 2019, 23, 439-445.	1.1	0
107	Air quality, particulate matter, and geographic characterization in a potential asthma prone region of eastern central Puerto Rico. <i>WIT Transactions on Ecology and the Environment</i> , 2006, , .	0.0	0
108	Avaliação das características físicas do solo da área da mata da galeria na sub-bacia hidrográfica da Mariana para a conservação ambiental. <i>Cadernos Do Laboratorio Xeoloxico De Laxe</i> , 0, 37, 125-137.	0.0	0

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109	Variabilidad de $\delta^{13}C$ y $\delta^{15}N$ en suelo y hojarasca de cacao en El Oro, Ecuador. Terra Latinoamericana, 2019, 37, 131.	0.3	0
110	Niveles de Cd, Cr, Ni y Pb extraídos mediante Mehlich-3 y DTPA en un suelo agrícola sobre sedimentos cuaternarios. Cadernos Do Laboratorio Xeoloxico De Laxe, 0, 41, 47-58.	0.0	0
111	Sistemas de manejo e qualidade do solo na produção de soja no cerrado de baixa altitude. Research, Society and Development, 2020, 9, .	0.1	0