

MarÃ-a Bonita Villamil

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8885126/publications.pdf>

Version: 2024-02-01

71
papers

2,498
citations

201674

27
h-index

206112

48
g-index

75
all docs

75
docs citations

75
times ranked

2679
citing authors

#	ARTICLE	IF	CITATIONS
1	Meta-analysis approach to assess effect of tillage on microbial biomass and enzyme activities. <i>Soil Biology and Biochemistry</i> , 2016, 97, 176-187.	8.8	254
2	No-Till Corn/Soybean Systems Including Winter Cover Crops. <i>Soil Science Society of America Journal</i> , 2006, 70, 1936-1944.	2.2	252
3	Do cover crops benefit soil microbiome? A meta-analysis of current research. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107701.	8.8	224
4	Meta-analysis of the effects of management factors on <i>Miscanthus</i> — <i>giganteus</i> growth and biomass production. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1280-1292.	4.8	152
5	Crop Rotation and Tillage Effects on Soil Physical and Chemical Properties in Illinois. <i>Agronomy Journal</i> , 2015, 107, 971-978.	1.8	117
6	Long-term crop rotation and tillage effects on soil greenhouse gas emissions and crop production in Illinois, USA. <i>Agriculture, Ecosystems and Environment</i> , 2018, 261, 62-70.	5.3	96
7	Multivariate assessment of soil quality indicators for crop rotation and tillage in Illinois. <i>Soil and Tillage Research</i> , 2017, 174, 147-155.	5.6	93
8	A quantitative understanding of the role of co-composted biochar in plant growth using meta-analysis. <i>Science of the Total Environment</i> , 2019, 685, 741-752.	8.0	93
9	Corn residue, tillage, and nitrogen rate effects on soil properties. <i>Soil and Tillage Research</i> , 2015, 151, 61-66.	5.6	77
10	SOIL DEGRADATION RELATED TO OVERGRAZING IN THE SEMI-ARID SOUTHERN CALDENAL AREA OF ARGENTINA. <i>Soil Science</i> , 2001, 166, 441-452.	0.9	67
11	Short-term Effects of Cover Crops and Compaction on Soil Properties and Soybean Production in Illinois. <i>Agronomy Journal</i> , 2014, 106, 860-870.	1.8	60
12	Yields and yield stability of no-till and chisel-plow fields in the Midwestern US Corn Belt. <i>Field Crops Research</i> , 2018, 218, 243-253.	5.1	55
13	Producer perceptions and information needs regarding their adoption of bioenergy crops. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3604-3612.	16.4	53
14	Tillage and Cover Cropping Effects on Soil Properties and Crop Production in Illinois. <i>Agronomy Journal</i> , 2017, 109, 1261-1270.	1.8	50
15	What does it take to detect a change in soil carbon stock? A regional comparison of minimum detectable difference and experiment duration in the north central United States. <i>Journal of Soils and Water Conservation</i> , 2014, 69, 517-531.	1.6	47
16	Potential <i>miscanthus</i> ™ adoption in Illinois: Information needs and preferred information channels. <i>Biomass and Bioenergy</i> , 2008, 32, 1338-1348.	5.7	44
17	Assessing the impacts of cover crops on maize and soybean yield in the U.S. Midwestern agroecosystems. <i>Field Crops Research</i> , 2021, 273, 108264.	5.1	40
18	A Comparison of Soil Properties after Five Years of No-till and Strip-till. <i>Agronomy Journal</i> , 2015, 107, 1339-1346.	1.8	39

#	ARTICLE	IF	CITATIONS
19	Long-term N fertilization imbalances potential N acquisition and transformations by soil microbes. <i>Science of the Total Environment</i> , 2019, 691, 562-571.	8.0	39
20	Cover crop rotations affect greenhouse gas emissions and crop production in Illinois, USA. <i>Field Crops Research</i> , 2019, 241, 107580.	5.1	38
21	Using cover crops in headlands of organic grain farms: Effects on soil properties, weeds and crop yields. <i>Agriculture, Ecosystems and Environment</i> , 2016, 216, 322-332.	5.3	35
22	Estimating Factor Contributions to Soybean Yield from Farm Field Data. <i>Agronomy Journal</i> , 2012, 104, 881-887.	1.8	33
23	Effect of Clay Minerals and Organic Matter on the Cation Exchange Capacity of Silt Fractions. <i>Journal of Plant Nutrition and Soil Science</i> , 2000, 163, 47-52.	1.9	32
24	Carbon and Nitrogen Content of Soil Organic Matter and Microbial Biomass under Long-Term Crop Rotation and Tillage in Illinois, USA. <i>Agriculture (Switzerland)</i> , 2018, 8, 37.	3.1	32
25	Multivariate Analysis and Visualization of Soil Quality Data for No-Till Systems. <i>Journal of Environmental Quality</i> , 2008, 37, 2063-2069.	2.0	31
26	Standardized research protocols enable transdisciplinary research of climate variation impacts in corn production systems. <i>Journal of Soils and Water Conservation</i> , 2014, 69, 532-542.	1.6	31
27	Different response of silicate fertilizer having electron acceptors on methane emission in rice paddy soil under green manuring. <i>Biology and Fertility of Soils</i> , 2012, 48, 435-442.	4.3	30
28	Corn residue, tillage, and nitrogen rate effects on soil carbon and nutrient stocks in Illinois. <i>Geoderma</i> , 2015, 253-254, 61-66.	5.1	30
29	Acidification in corn monocultures favor fungi, ammonia oxidizing bacteria, and nirK-denitrifier groups. <i>Science of the Total Environment</i> , 2020, 720, 137514.	8.0	30
30	Soil quality under conservation practices on farm operations of the southern semiarid pampas region of Argentina. <i>Soil and Tillage Research</i> , 2018, 176, 85-94.	5.6	24
31	Long-Term N Fertilization Decreased Diversity and Altered the Composition of Soil Bacterial and Archaeal Communities. <i>Agronomy</i> , 2019, 9, 574.	3.0	22
32	Enhanced Efficiency Fertilizer Impacts on Yield-Scaled Nitrous Oxide Emissions in Maize. <i>Soil Science Society of America Journal</i> , 2018, 82, 1469-1481.	2.2	19
33	Soil Microbial Indicators within Rotations and Tillage Systems. <i>Microorganisms</i> , 2021, 9, 1244.	3.6	19
34	Exploring the Relationships between Greenhouse Gas Emissions, Yields, and Soil Properties in Cropping Systems. <i>Agriculture (Switzerland)</i> , 2018, 8, 62.	3.1	15
35	Long-Lasting Impact of Maternal Immune Activation and Interaction With a Second Immune Challenge on Pig Behavior. <i>Frontiers in Veterinary Science</i> , 2020, 7, 561151.	2.2	15
36	Soil N ₂ O emissions as affected by long-term residue removal and no-till practices in continuous corn. <i>GCB Bioenergy</i> , 2018, 10, 972-985.	5.6	14

#	ARTICLE	IF	CITATIONS
37	Microbial Signatures in Fertile Soils Under Long-Term N Management. <i>Frontiers in Soil Science</i> , 2021, 1, .	2.2	14
38	Agronomic assessment of cover cropping and tillage practices across environments. <i>Agronomy Journal</i> , 2020, 112, 3913-3928.	1.8	13
39	The Combined Effect of Weaning Stress and Immune Activation during Pig Gestation on Serum Cytokine and Analyte Concentrations. <i>Animals</i> , 2021, 11, 2274.	2.3	13
40	Short Corn Rotations Do Not Improve Soil Quality, Compared with Corn Monocultures. <i>Agronomy Journal</i> , 2018, 110, 1274-1288.	1.8	11
41	Long-term residue removal under tillage decreases amoA-nitrifiers and stimulates nirS-denitrifier groups in the soil. <i>Applied Soil Ecology</i> , 2021, 157, 103730.	4.3	11
42	Bioenergy Yields of Several Cropping Systems in the U.S. Corn Belt. <i>Agronomy Journal</i> , 2016, 108, 559-565.	1.8	10
43	Microbial Shifts Following Five Years of Cover Cropping and Tillage Practices in Fertile Agroecosystems. <i>Microorganisms</i> , 2020, 8, 1773.	3.6	10
44	Characterization of Septoria brown spot disease development and yield effects on soybean in Illinois. <i>Canadian Journal of Plant Pathology</i> , 2021, 43, 62-72.	1.4	10
45	Biochemistry and Immune Biomarkers Indicate Interacting Effects of Pre- and Postnatal Stressors in Pigs across Sexes. <i>Animals</i> , 2021, 11, 987.	2.3	10
46	Organic Transition Effects on Soilborne Diseases of Soybean and Populations of Pseudomonadaceae. <i>Agronomy Journal</i> , 2015, 107, 1087-1097.	1.8	9
47	New Grain P and K Concentration Values for Illinois Field Crops. <i>Crop, Forage and Turfgrass Management</i> , 2019, 5, 180090.	0.6	7
48	Nitrogen provisioned and recycled by cover crops in monoculture and mixture across two organic farms. <i>Nutrient Cycling in Agroecosystems</i> , 2019, 115, 441-453.	2.2	6
49	Primer design to assess bacterial degradation of glyphosate and other phosphonates. <i>Journal of Microbiological Methods</i> , 2020, 169, 105814.	1.6	6
50	High-Resolution Indicators of Soil Microbial Responses to N Fertilization and Cover Cropping in Corn Monocultures. <i>Agronomy</i> , 2022, 12, 954.	3.0	6
51	Organic matter mobilization as affected by soil-solution composition and prevailing clay minerals. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 2291-2299.	1.4	5
52	Organic Amendment and Transitional Cropping System Effects on Crop Diseases. <i>Agronomy Journal</i> , 2014, 106, 519-527.	1.8	5
53	Multivariate Methods for Agricultural Research. <i>Assa, Cssa and Sssa</i> , 2018, , 371-399.	0.6	5
54	Long-term effects of crop rotation and nitrogen fertilization on phosphorus cycling and balances in loess-derived Mollisols. <i>Geoderma</i> , 2022, 420, 115829.	5.1	5

#	ARTICLE	IF	CITATIONS
55	Apparent Nitrogen Recovery from Fallâ€Applied Ammoniated Phosphates and Ammonium Sulfate Fertilizers. <i>Agronomy Journal</i> , 2010, 102, 1674-1681.	1.8	4
56	Chapter 14: Multivariate Methods for Agricultural Research. ACSESS Publications, 2018, , .	0.2	4
57	Characterization of Mollisols after Long-Term N Fertilization at Successive Rates in Continuous and Rotated Corn Systems. <i>Agronomy</i> , 2022, 12, 625.	3.0	4
58	Towards Sustainable Dairy Production in Argentina: Evaluating Nutrient and CO2 Release from Raw and Processed Farm Waste. <i>Agronomy</i> , 2021, 11, 2595.	3.0	4
59	Agronomic and Taxonomic Consequences of Agricultural Use of Marginal Soils in Argentina. <i>Soil Science Society of America Journal</i> , 2012, 76, 558-568.	2.2	3
60	Initial Plant Size Affects Response to Thinning in Soybean. <i>Agronomy Journal</i> , 2015, 107, 158-166.	1.8	3
61	Effects of Pyraclostrobin Foliar Fungicide, Corn Hybrid, and Harvest Timing on Stalk Health of Corn. <i>Crop, Forage and Turfgrass Management</i> , 2018, 4, 1-5.	0.6	3
62	A Longitudinal Study of the Microbial Basis of Nitrous Oxide Emissions Within a Long-Term Agricultural Experiment. <i>Frontiers in Agronomy</i> , 2022, 4, .	3.3	3
63	Meiotic pairing as an indicator of genome composition in polyploid prairie cordgrass (<i>Spartina</i>) Tj ETQq1 1 0.784314rgBT /Oyerlock I	1.1	2
64	A Modeling Framework to Evaluate the Impacts of Future Climate on Soil Organic Carbon Dynamics. <i>Journal of Environmental Quality</i> , 2018, 47, 596-606.	2.0	2
65	Ammonia Oxidizing Prokaryotes Respond Differently to Fertilization and Termination Methods in Common Oatâ€™s Rhizosphere. <i>Frontiers in Microbiology</i> , 2021, 12, 746524.	3.5	2
66	Limited Impacts of Cover Cropping on Soil N-Cycling Microbial Communities of Long-Term Corn Monocultures. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	2
67	Integration of statistical models and visualization tools to characterize microRNA networks influencing cancer. , 2011, , .		0
68	Additive and multiplicative genome-wide association models identify genes associated with growth. , 2011, , .		0
69	A spatially explicit, agent-based model for simulating movements of cattle grazing corn residues. , 2016, , .		0
70	Segregation of patches by patterns of soil attributes in a native grassland in central Argentina. <i>Phyton</i> , 2011, 80, 193-201.	0.7	0
71	Evaluation of N sources, cover crops, and tillage systems for corn grown under organic management. <i>Phyton</i> , 2014, 83, 71-81.	0.7	0