Antonio Vallejo Garcia

List of Publications by Year
in descending order

104 papers	5,359 citations	81434 41 h-index	100535 70 g-index
104 all docs	104 docs citations	104 times ranked	4754 citing authors

#	Article	IF	Citations
1	Nitrous oxide emissions and microbial communities during the transition to conservation agriculture using N-enhanced efficiency fertilisers in a semiarid climate. Soil Biology and Biochemistry, 2022, 170, 108687.	4.2	7
2	Zinc-nitrogen co-fertilization influences N2O emissions and microbial communities in an irrigated maize field. Geoderma, 2021, 383, 114735.	2.3	19
3	Mitigation of yield-scaled nitrous oxide emissions and global warming potential in an oilseed rape crop through N source management. Journal of Environmental Management, 2021, 288, 112304.	3.8	22
4	Nitrogen dynamics in cropping systems under Mediterranean climate: a systemic analysis. Environmental Research Letters, 2021, 16, 073002.	2.2	25
5	Increasing N use efficiency while decreasing gaseous N losses in a non-tilled wheat (Triticum aestivum) Tj ETQq1 1 0.784314 rgBT /Over	2.5	18
6	Effect of urease and nitrification inhibitors on ammonia volatilization and abundance of Nâ€cycling genes in an agricultural soil. Journal of Plant Nutrition and Soil Science, 2020, 183, 99-109.	1.1	32
7	The scarcity and distribution of rainfall drove the performance (i.e., mitigation of N oxide emissions,) Tj ETQq1 1 0.784314 rgBT /Over semiarid conditions. Archives of Agronomy and Soil Science, 2020, 66, 1827-1844.	1.3	5
8	Global Research Alliance N₂O chamber methodology guidelines: Recommendations for deployment and accounting for sources of variability. Journal of Environmental Quality, 2020, 49, 1092-1109.	1.0	37
9	Inhibitor-coated enhanced-efficiency N fertilizers for mitigating NOx and N2O emissions in a high-temperature irrigated agroecosystem. Agricultural and Forest Meteorology, 2020, 292-293, 108110.	1.9	8
10	Joint mitigation of NH3 and N2O emissions by using two synthetic inhibitors in an irrigated cropping soil. Geoderma, 2020, 373, 114423.	2.3	33
11	Zincâ€“nitrogen interaction effect on wheat biofortification and nutrient use efficiency. Journal of Plant Nutrition and Soil Science, 2020, 183, 169-179.	1.1	16
12	Linking Ammonia Volatilization with Moisture Content and Abundance of Nitrification and Denitrification Genes in N-Fertilized Soils. Sustainability in Plant and Crop Protection, 2019, , 29-43.	0.2	2
13	Impact of rainfall to the effectiveness of pig slurry shallow injection method for NH3 mitigation in a Mediterranean soil. Atmospheric Environment, 2019, 216, 116913.	1.9	15
14	Effective climate change mitigation through cover cropping and integrated fertilization: A global warming potential assessment from a 10-year field experiment. Journal of Cleaner Production, 2019, 241, 118307.	4.6	43
15	Nitrification inhibitor DMPSA mitigated N2O emission and promoted NO sink in rainfed wheat. Environmental Pollution, 2019, 245, 199-207.	3.7	35
16	Zinc fertilizers influence greenhouse gas emissions and nitrifying and denitrifying communities in a non-irrigated arable cropland. Geoderma, 2018, 325, 208-217.	2.3	16
17	Effect of Stover Management and Nitrogen Fertilization on N2O and CO2 Emissions from Irrigated Maize in a High Nitrate Mediterranean Soil. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	15
18	Determining the influence of environmental and edaphic factors on the fate of the nitrification inhibitors DCD and DMPP in soil. Science of the Total Environment, 2018, 624, 1202-1212.	3.9	69

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19	The effect of nitrification inhibitors on NH3 and N2O emissions in highly N fertilized irrigated Mediterranean cropping systems. Science of the Total Environment, 2018, 636, 427-436.	3.9	79
20	Fate of 15 N-labelled ammonium nitrate with or without the new nitrification inhibitor DMPSA in an irrigated maize crop. Soil Biology and Biochemistry, 2018, 116, 193-202.	4.2	46
21	Postfire nitrogen balance of Mediterranean shrublands: Direct combustion losses versus gaseous and leaching losses from the postfire soil mineral nitrogen flush. Global Change Biology, 2018, 24, 4505-4520.	4.2	29
22	Urea-based fertilization strategies to reduce yield-scaled N oxides and enhance bread-making quality in a rainfed Mediterranean wheat crop. Agriculture, Ecosystems and Environment, 2018, 265, 421-431.	2.5	45
23	Rainfall amount and distribution regulate DMPP effects on nitrous oxide emissions under semiarid Mediterranean conditions. Agriculture, Ecosystems and Environment, 2017, 238, 36-45.	2.5	30
24	Conservation Agriculture practices reduce the global warming potential of rainfed low N input semi-arid agriculture. European Journal of Agronomy, 2017, 84, 95-104.	1.9	37
25	Effect of inhibitors and fertigation strategies on GHG emissions, NO fluxes and yield in irrigated maize. Field Crops Research, 2017, 204, 135-145.	2.3	78
26	Diet management to effectively abate N 2 O emissions from surface applied pig slurry. Agriculture, Ecosystems and Environment, 2017, 239, 1-11.	2.5	14
27	Nitrogen soil emissions and belowground plant processes in Mediterranean annual pastures are altered by ozone exposure and N-inputs. Atmospheric Environment, 2017, 165, 12-22.	1.9	11
28	Strategies for greenhouse gas emissions mitigation in Mediterranean agriculture: A review. Agriculture, Ecosystems and Environment, 2017, 238, 5-24.	2.5	193
29	â€œHot spotsâ€•of N and C impact nitric oxide, nitrous oxide and nitrogen gas emissions from a UK grassland soil. Geoderma, 2017, 305, 336-345.	2.3	28
30	Management of pig manure to mitigate NO and yield-scaled N2O emissions in an irrigated Mediterranean crop. Agriculture, Ecosystems and Environment, 2017, 238, 55-66.	2.5	38
31	Soil moisture determines the effectiveness of two urease inhibitors to decrease N2O emission. Mitigation and Adaptation Strategies for Global Change, 2016, 21, 1131.	1.0	27
32	Effect of cover crops on greenhouse gas emissions in an irrigated field under integrated soil fertility management. Biogeosciences, 2016, 13, 5245-5257.	1.3	63
33	No tillage and liming reduce greenhouse gas emissions from poorly drained agricultural soils in Mediterranean regions. Science of the Total Environment, 2016, 566-567, 512-520.	3.9	41
34	Effect of tillage and crop (cereal versus legume) on greenhouse gas emissions and Global Warming Potential in a non-irrigated Mediterranean field. Agriculture, Ecosystems and Environment, 2016, 221, 187-197.	2.5	67
35	The mobility of nitrification inhibitors under simulated ruminant urine deposition and rainfall: a comparison between DCD and DMPP. Biology and Fertility of Soils, 2016, 52, 491-503.	2.3	60
36	Denitrification as a source of nitric oxide emissions from incubated soil cores from a UK grassland soil. Soil Biology and Biochemistry, 2016, 95, 1-7.	4.2	53

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37	Nitrous oxide and methane emissions from a vetch cropping season are changed by long-term tillage practices in a Mediterranean agroecosystem. Biology and Fertility of Soils, 2015, 51, 77-88.	2.3	25
38	Suitability and uncertainty of two models for the simulation of ammonia dispersion from a pig farm located in an area with frequent calm conditions. Atmospheric Environment, 2015, 102, 167-175.	1.9	19
39	N 2 O and CH 4 emissions from a fallowâ€“wheat rotation with low N input in conservation and conventional tillage under a Mediterranean agroecosystem. Science of the Total Environment, 2015, 508, 85-94.	3.9	60
40	Ranking factors affecting emissions of <scp>GHG</scp> from incubated agricultural soils. European Journal of Soil Science, 2014, 65, 573-583.	1.8	36
41	Nitrous oxide and methane emissions from a surface dripâ€irrigated system combined with fertilizer management. European Journal of Soil Science, 2014, 65, 386-395.	1.8	26
42	Yield-scaled mitigation of ammonia emission from N fertilization: the Spanish case. Environmental Research Letters, 2014, 9, 125005.	2.2	65
43	Do cover crops enhance N2O, CO2 or CH4 emissions from soil in Mediterranean arable systems?. Science of the Total Environment, 2014, 466-467, 164-174.	3.9	122
44	Meta-analysis of the effect of urease and nitrification inhibitors on crop productivity and nitrogen use efficiency. Agriculture, Ecosystems and Environment, 2014, 189, 136-144.	2.5	442
45	Management of irrigation frequency and nitrogen fertilization to mitigate GHG and NO emissions from drip-fertigated crops. Science of the Total Environment, 2014, 490, 880-888.	3.9	111
46	Role of maize stover incorporation on nitrogen oxide emissions in a non-irrigated Mediterranean barley field. Plant and Soil, 2013, 364, 357-371.	1.8	76
47	The potential of organic fertilizers and water management to reduce N2O emissions in Mediterranean climate cropping systems. A review. Agriculture, Ecosystems and Environment, 2013, 164, 32-52.	2.5	293
48	Meta-analysis of strategies to control nitrate leaching in irrigated agricultural systems and their effects on crop yield. Agriculture, Ecosystems and Environment, 2013, 174, 1-10.	2.5	246
49	Nitrous oxide emissions from European agriculture â€“ an analysis of variability and drivers of emissions from field experiments. Biogeosciences, 2013, 10, 2671-2682.	1.3	108
50	An intercomparison of models used to simulate the short-range atmospheric dispersion of agricultural ammonia emissions. Environmental Modelling and Software, 2012, 37, 90-102.	1.9	42
51	Gaseous emissions of N2O and NO and NO3â^' leaching from urea applied with urease and nitrification inhibitors to a maize (Zea mays) crop. Agriculture, Ecosystems and Environment, 2012, 149, 64-73.	2.5	173
52	Effectiveness of urease inhibition on the abatement of ammonia, nitrous oxide and nitric oxide emissions in a non-irrigated Mediterranean barley field. Chemosphere, 2012, 89, 310-318.	4.2	103
53	Effect of antecedent soil moisture conditions on emissions and isotopologue distribution of N2O during denitrification. Soil Biology and Biochemistry, 2011, 43, 240-250.	4.2	78
54	Effect of water addition and the urease inhibitor NBPT on the abatement of ammonia emission from surface applied urea. Atmospheric Environment, 2011, 45, 1517-1524.	1.9	130

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55	Combination of drip irrigation and organic fertilizer for mitigating emissions of nitrogen oxides in semiarid climate. Agriculture, Ecosystems and Environment, 2010, 137, 99-107.	2.5	98
56	Carbon dioxide and methane fluxes from a barley field amended with organic fertilizers under Mediterranean climatic conditions. Plant and Soil, 2010, 328, 353-367.	1.8	43
57	Residual effect of organic carbon as a tool for mitigating nitrogen oxides emissions in semi-arid climate. Plant and Soil, 2010, 326, 137-145.	1.8	23
58	Use of an inverse dispersion technique for estimating ammonia emission from surface-applied slurry. Atmospheric Environment, 2010, 44, 999-1002.	1.9	46
59	Cost-effective supervisory control system in peripheral milling using HSM. Annual Reviews in Control, 2010, 34, 155-162.	4.4	14
60	Dual isotope and isotopomer measurements for the understanding of N₂O production and consumption during denitrification in an arable soil. European Journal of Soil Science, 2010, 61, 364-374.	1.8	49
61	The importance of the fallow period for N₂O and CH₄ fluxes and nitrate leaching in a Mediterranean irrigated agroecosystem. European Journal of Soil Science, 2010, 61, 710-720.	1.8	45
62	Comparison of nitrification inhibitors to restrict nitrate leaching in a maize crop irrigated under mediterranean conditions. Spanish Journal of Agricultural Research, 2010, 8, 481.	0.3	13
63	Online prediction of surface roughness in peripheral milling processes. , 2009, , .		2
64	A simple model for screening the local impacts of atmospheric ammonia. Science of the Total Environment, 2009, 407, 6024-6033.	3.9	21
65	Nitrogen oxide emissions affected by organic fertilization in a non-irrigated Mediterranean barley field. Agriculture, Ecosystems and Environment, 2009, 132, 106-115.	2.5	60
66	Surface Roughness Modelling in Machining Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 325-330.	0.4	1
67	An inhibitor of urease activity effectively reduces ammonia emissions from soil treated with urea under Mediterranean conditions. Agriculture, Ecosystems and Environment, 2008, 126, 243-249.	2.5	142
68	The influence of soluble carbon and fertilizer nitrogen on nitric oxide and nitrous oxide emissions from two contrasting agricultural soils. Soil Biology and Biochemistry, 2008, 40, 142-151.	4.2	127
69	Influence of drip and furrow irrigation systems on nitrogen oxide emissions from a horticultural crop. Soil Biology and Biochemistry, 2008, 40, 1698-1706.	4.2	92
70	Intelligent monitoring and decision control system for peripheral milling process. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	5
71	LOW-COST CUTTING TOOL DIAGNOSIS BASED ON SENSOR-FUSION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 141-146.	0.4	1
72	DESIGNING A COST-EFFECTIVE SUPERVISORY CONTROL SYSTEM FOR MACHINING PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 147-152.	0.4	3

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73	The effect of diet manipulation on nitrous oxide and methane emissions from manure application to incubated grassland soils. Atmospheric Environment, 2007, 41, 7096-7107.	1.9	57
74	Nitrogen oxide emissions from an irrigated maize crop amended with treated pig slurries and composts in a Mediterranean climate. Agriculture, Ecosystems and Environment, 2007, 121, 383-394.	2.5	166
75	Effects of fertiliser type and the presence or absence of plants on nitrous oxide emissions from irrigated soils. Nutrient Cycling in Agroecosystems, 2007, 78, 279-289.	1.1	59
76	Multi Sensor Data Fusion for High Speed Machining. Lecture Notes in Computer Science, 2007, , 1162-1172.	1.0	2
77	Experimental design to optimise the analysis of organic volatile compounds in cow slurry by headspace solid-phase microextractionâ€“gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2006, 1136, 1-9.	1.8	26
78	Nitrogen oxides emission from soils bearing a potato crop as influenced by fertilization with treated pig slurries and composts. Soil Biology and Biochemistry, 2006, 38, 2782-2793.	4.2	149
79	Diagnosis of a Cutting Tool in a Machining Center. , 2006, , .		3
80	Comparison of N losses (NO â^'3, N 2O, NO) from surface applied, injected or amended (DCD) pig slurry of an irrigated soil in a Mediterranean climate. Plant and Soil, 2005, 272, 313-325.	1.8	106
81	Comparison of Two Methods for Nitrogen Extraction of Irrigated Spanish Soils and Related Nitrogen Balance Calibrations. Communications in Soil Science and Plant Analysis, 2005, 35, 2227-2242.	0.6	2
82	Denitrification from an irrigated soil fertilized with pig slurry under Mediterranean conditions. Biology and Fertility of Soils, 2004, 40, 93-100.	2.3	15
83	Impact of pig slurry on soil properties, water salinization, nitrate leaching and crop yield in a fourâ€year experiment in Central Spain. Soil Use and Management, 2004, 20, 444-450.	2.6	14
84	Impact of pig slurry on soil properties, water salinization, nitrate leaching and crop yield in a four-year experiment in Central Spain. Soil Use and Management, 2004, 20, 444-450.	2.6	22
85	Denitrification losses from irrigated crops in central Spain. Soil Biology and Biochemistry, 2001, 33, 1201-1209.	4.2	37
86	Evaluation of the Application of Pig Slurry to an Experimental Crop Using Agronomic and Ecotoxicological Approaches. Journal of Environmental Quality, 2001, 30, 2165-2172.	1.0	47
87	Nitrous oxide emission and denitrification nitrogen losses from soils treated with isobutylenediurea and urea plus dicyandiamide. Biology and Fertility of Soils, 2001, 34, 248-257.	2.3	23
88	Integrated Fertilizer and Irrigation Management to Reduce Nitrate Leaching in Central Spain. Journal of Environmental Quality, 2000, 29, 1539-1547.	1.0	60
89	Estimate of Mineralized Organic Nitrogen in Soil Using Nitrogen Balances and Determining Available Nitrogen by the Electro-ultrafiltration Technique. Application to Mediterranean Climate Soils. Journal of Agricultural and Food Chemistry, 1998, 46, 2036-2043.	2.4	14
90	Forecasting by laboratory tests of nitrogen leached and absorbed in soilâ€plant system with ureaâ€based controlledâ€release fertilizers coated with lignin. Communications in Soil Science and Plant Analysis, 1998, 29, 2479-2491.	0.6	4

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91	Nitrogen use efficiency with the application of controlled release fertilizers coated with Kraft pine lignin. Soil Science and Plant Nutrition, 1997, 43, 443-449.	0.8	15
92	Effect of Applying Soluble and Coated Phosphate Fertilizers on Phosphate Availability in Calcareous Soils and on P Absorption by a Rye-Grass Crop. Journal of Agricultural and Food Chemistry, 1997, 45, 1931-1936.	2.4	18
93	Manufacture and Evaluation of Coated Triple Superphosphate Fertilizers. Industrial & Engineering Chemistry Research, 1997, 36, 869-873.	1.8	25
94	Use of Kraft Pine Lignin in Controlled-Release Fertilizer Formulations. Industrial & Engineering Chemistry Research, 1996, 35, 245-249.	1.8	65
95	Water and Solute Movement under Conventional Corn in Central Spain: I. Water Balance. Soil Science Society of America Journal, 1996, 60, 1530-1536.	1.2	21
96	Water and Solute Movement under Conventional Corn in Central Spain. II. Salt Leaching. Soil Science Society of America Journal, 1996, 60, 1536-1540.	1.2	13
97	Control of nitrate pollution by application of controlled release fertilizer (CRF), compost and an optimized irrigation system. Fertilizer Research, 1996, 43, 191-195.	0.5	7
98	Coated diammonium phosphate effect on soil nitrogen lixiviation and its relation with properties kinetics. Communications in Soil Science and Plant Analysis, 1995, 26, 3405-3416.	0.6	0
99	Preparation of Fertilizers with Rosin and Tricalcium Phosphate Coated Zinc Chelates. Laboratory Characterization. Journal of Agricultural and Food Chemistry, 1995, 43, 2758-2761.	2.4	7
100	Effect of the type of fertilizer and source of irrigation water on N use in a maize crop. Field Crops Research, 1995, 44, 33-39.	2.3	27
101	Controlling nitrate pollution of aquifers by using different nitrogenous controlled release fertilizers in maize crop. Agriculture, Ecosystems and Environment, 1994, 48, 49-56.	2.5	36
102	Nitrogen availability of soluble and slow release nitrogen fertilizers as assessed by electroultrafiltration. Fertilizer Research, 1993, 34, 121-126.	0.5	5
103	Pre-plant slow-release fertilization of strawberry plants before fertigation. Fertilizer Research, 1993, 34, 191-195.	0.5	7
104	Controlling phosphorus fixation in calcareous soils by using coated diammonium phosphate. Fertilizer Research, 1992, 31, 269-274.	0.5	11