

Miguel Quemada

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,534
citations

87843

38
h-index

110317

64
g-index

99
all docs

99
docs citations

99
times ranked

4678
citing authors

#	ARTICLE	IF	CITATIONS
1	Using cover crops to mitigate and adapt to climate change. A review. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.	2.2	317
2	Uncertainties in projected impacts of climate change on European agriculture and terrestrial ecosystems based on scenarios from regional climate models. <i>Climatic Change</i> , 2007, 81, 123-143.	1.7	304
3	Meta-analysis of strategies to control nitrate leaching in irrigated agricultural systems and their effects on crop yield. <i>Agriculture, Ecosystems and Environment</i> , 2013, 174, 1-10.	2.5	246
4	Strategies for greenhouse gas emissions mitigation in Mediterranean agriculture: A review. <i>Agriculture, Ecosystems and Environment</i> , 2017, 238, 5-24.	2.5	193
5	Drainage and nitrate leaching under processing tomato growth with drip irrigation and plastic mulching. <i>Agriculture, Ecosystems and Environment</i> , 2006, 112, 313-323.	2.5	158
6	Carbon and Nitrogen Mineralized from Leaves and Stems of Four Cover Crops. <i>Soil Science Society of America Journal</i> , 1995, 59, 471-477.	1.2	147
7	Replacing bare fallow with cover crops in a maize cropping system: Yield, N uptake and fertiliser fate. <i>European Journal of Agronomy</i> , 2011, 34, 133-143.	1.9	130
8	Do cover crops enhance N ₂ O, CO ₂ or CH ₄ emissions from soil in Mediterranean arable systems?. <i>Science of the Total Environment</i> , 2014, 466-467, 164-174.	3.9	122
9	The role of cover crops in irrigated systems: Water balance, nitrate leaching and soil mineral nitrogen accumulation. <i>Agriculture, Ecosystems and Environment</i> , 2012, 155, 50-61.	2.5	118
10	Airborne Hyperspectral Images and Ground-Level Optical Sensors As Assessment Tools for Maize Nitrogen Fertilization. <i>Remote Sensing</i> , 2014, 6, 2940-2962.	1.8	114
11	Evaluation of chlorophyll meters as tools for N fertilization in winter wheat under humid Mediterranean conditions. <i>European Journal of Agronomy</i> , 2006, 24, 140-148.	1.9	103
12	Exploring nitrogen indicators of farm performance among farm types across several European case studies. <i>Agricultural Systems</i> , 2020, 177, 102689.	3.2	102
13	The Kill Date as a Management Tool for Cover Cropping Success. <i>PLoS ONE</i> , 2014, 9, e109587.	1.1	100
14	Approaches for increasing nitrogen and water use efficiency simultaneously. <i>Global Food Security</i> , 2016, 9, 29-35.	4.0	97
15	Temperature and moisture effects on C and N mineralization from surface applied clover residue. <i>Plant and Soil</i> , 1997, 189, 127-137.	1.8	89
16	Airborne and ground level sensors for monitoring nitrogen status in a maize crop. <i>Biosystems Engineering</i> , 2017, 160, 124-133.	1.9	80
17	The cover crop determines the AMF community composition in soil and in roots of maize after a ten-year continuous crop rotation. <i>Science of the Total Environment</i> , 2019, 660, 913-922.	3.9	76
18	Cover crops to mitigate soil degradation and enhance soil functionality in irrigated land. <i>Geoderma</i> , 2018, 322, 81-88.	2.3	74

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19	Drainage and nitrate leaching in a crop rotation under different N-fertilizer strategies: application of capacitance probes. <i>Plant and Soil</i> , 2006, 288, 57-69.	1.8	70
20	Effect of cover crops on greenhouse gas emissions in an irrigated field under integrated soil fertility management. <i>Biogeosciences</i> , 2016, 13, 5245-5257.	1.3	63
21	Mapping Crop Residue and Tillage Intensity Using WorldView-3 Satellite Shortwave Infrared Residue Indices. <i>Remote Sensing</i> , 2018, 10, 1657.	1.8	62
22	Title is missing!. <i>Molecular Breeding</i> , 1997, 3, 279-290.	1.0	58
23	CERESâ€™ Model Predictions of Nitrogen Mineralized from Cover Crop Residues. <i>Soil Science Society of America Journal</i> , 1995, 59, 1059-1065.	1.2	55
24	Cover crops effect on farm benefits and nitrate leaching: Linking economic and environmental analysis. <i>Agricultural Systems</i> , 2013, 121, 23-32.	3.2	55
25	Spectral Indices to Improve Crop Residue Cover Estimation under Varying Moisture Conditions. <i>Remote Sensing</i> , 2016, 8, 660.	1.8	53
26	Nitrogen use efficiency and residual effect of fertilizers with nitrification inhibitors. <i>European Journal of Agronomy</i> , 2016, 80, 1-8.	1.9	52
27	A methodology for measuring drainage and nitrate leaching in unevenly irrigated vegetable crops. <i>Plant and Soil</i> , 2005, 269, 297-308.	1.8	49
28	Nitrogen use efficiency and fertiliser fate in a long-term experiment with winter cover crops. <i>European Journal of Agronomy</i> , 2016, 79, 14-22.	1.9	48
29	Improved crop residue cover estimates obtained by coupling spectral indices for residue and moisture. <i>Remote Sensing of Environment</i> , 2018, 206, 33-44.	4.6	48
30	Arbuscular mycorrhizal fungal activity responses to winter cover crops in a sunflower and maize cropping system. <i>Applied Soil Ecology</i> , 2016, 102, 10-18.	2.1	47
31	Ground cover and leaf area index relationship in a grass, legume and crucifer crop. <i>Plant, Soil and Environment</i> , 2012, 58, 385-390.	1.0	46
32	Use of a chlorophyll meter to assess nitrogen nutrition index during the growth cycle in winter wheat. <i>Field Crops Research</i> , 2017, 214, 73-82.	2.3	46
33	The importance of the fallow period for N ₂ O and CH ₄ fluxes and nitrate leaching in a Mediterranean irrigated agroecosystem. <i>European Journal of Soil Science</i> , 2010, 61, 710-720.	1.8	45
34	Weed density and diversity in a long-term cover crop experiment background. <i>Crop Protection</i> , 2018, 112, 103-111.	1.0	45
35	The role of cover crops in irrigated systems: Soil salinity and salt leaching. <i>Agriculture, Ecosystems and Environment</i> , 2012, 158, 200-207.	2.5	44
36	Effective climate change mitigation through cover cropping and integrated fertilization: A global warming potential assessment from a 10-year field experiment. <i>Journal of Cleaner Production</i> , 2019, 241, 118307.	4.6	43

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37	Predicting crop residue decomposition using moisture adjusted time scales. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 70, 283-291.	1.1	42
38	First-order impacts on winter and summer crops assessed with various high-resolution climate models in the Iberian Peninsula. <i>Climatic Change</i> , 2007, 81, 343-355.	1.7	42
39	Nitrogen Release from Surface Applied Cover Crop Residues: Evaluating the CERES Submodel. <i>Agronomy Journal</i> , 1997, 89, 723-729.	0.9	41
40	Strategies to Improve Nitrogen Use Efficiency in Winter Cereal Crops under Rainfed Conditions. <i>Agronomy Journal</i> , 2008, 100, 277-284.	0.9	41
41	Multicriteria decision analysis applied to cover crop species and cultivars selection. <i>Field Crops Research</i> , 2015, 175, 106-115.	2.3	40
42	Assessing cover crop management under actual and climate change conditions. <i>Science of the Total Environment</i> , 2018, 621, 1330-1341.	3.9	38
43	Soil water balance: Comparing two simulation models of different levels of complexity with lysimeter observations. <i>Agricultural Water Management</i> , 2014, 139, 53-63.	2.4	37
44	Intercropping effect on root growth and nitrogen uptake at different nitrogen levels. <i>Journal of Plant Ecology</i> , 2015, 8, 380-389.	1.2	37
45	Characteristic moisture curves and maximum water content of two crop residues. <i>Plant and Soil</i> , 2002, 238, 295-299.	1.8	36
46	Laboratory versus Field Calibration of Capacitance Probes. <i>Soil Science Society of America Journal</i> , 2010, 74, 593-601.	1.2	36
47	Comparison of Methods for Modeling Fractional Cover Using Simulated Satellite Hyperspectral Imager Spectra. <i>Remote Sensing</i> , 2019, 11, 2072.	1.8	36
48	Quantitative characterization of five cover crop species. <i>Journal of Agricultural Science</i> , 2015, 153, 1174-1185.	0.6	33
49	Effect of cover crops on leaching of dissolved organic nitrogen and carbon in a maize-cover crop rotation in Mediterranean Central Chile. <i>Agricultural Water Management</i> , 2019, 212, 399-406.	2.4	33
50	Establishing long-term nitrogen response of global cereals to assess sustainable fertilizer rates. <i>Nature Food</i> , 2022, 3, 122-132.	6.2	30
51	Risk of Inadequate Intakes of Vitamins A, B1, B6, C, E, Folate, Iron and Calcium in the Spanish Population Aged 4 to 18. <i>International Journal for Vitamin and Nutrition Research</i> , 2001, 71, 325-331.	0.6	26
52	Soil respiration 1 year after sewage sludge application. <i>Biology and Fertility of Soils</i> , 2001, 33, 344-346.	2.3	26
53	Cover crops reduce soil resistance to penetration by preserving soil surface water content. <i>Geoderma</i> , 2021, 386, 114911.	2.3	26
54	The cover crop termination choice to designing sustainable cropping systems. <i>European Journal of Agronomy</i> , 2020, 114, 126000.	1.9	25

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55	Nitrogen dynamics in cropping systems under Mediterranean climate: a systemic analysis. <i>Environmental Research Letters</i> , 2021, 16, 073002.	2.2	25
56	Strategies to Improve Nitrogen Use Efficiency in Winter Cereal Crops under Rainfed Conditions. <i>Agronomy Journal</i> , 2008, 100, 277.	0.9	23
57	Assessing the cover crop effect on soil hydraulic properties by inverse modelling in a 10-year field trial. <i>Agricultural Water Management</i> , 2019, 222, 62-71.	2.4	23
58	Integrated management for sustainable cropping systems: Looking beyond the greenhouse balance at the field scale. <i>Global Change Biology</i> , 2020, 26, 2584-2598.	4.2	23
59	Legacy of eight-year cover cropping on mycorrhizae, soil, and plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 818-826.	1.1	21
60	Simultaneous assessment of nitrogen and water status in winter wheat using hyperspectral and thermal sensors. <i>European Journal of Agronomy</i> , 2021, 127, 126287.	1.9	21
61	Mapping Crop Residue by Combining Landsat and WorldView-3 Satellite Imagery. <i>Remote Sensing</i> , 2019, 11, 1857.	1.8	20
62	Integrating Water, Nitrogen, and Salinity in Sustainable Irrigated Systems: Cover Crops versus Fallow. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, .	0.6	18
63	Residual Effect and N Fertilizer Rate Detection by High-Resolution VNIR-SWIR Hyperspectral Imagery and Solar-Induced Chlorophyll Fluorescence in Wheat. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	18
64	Predicting crop residue decomposition using moisture adjusted time scales. <i>Nutrient Cycling in Agroecosystems</i> , 2005, 70, 283-291.	1.1	16
65	FertiCalc: A Decision Support System for Fertilizer Management. <i>International Journal of Plant Production</i> , 2020, 14, 299-308.	1.0	16
66	Predicting N Status in Maize with Clip Sensors: Choosing Sensor, Leaf Sampling Point, and Timing. <i>Sensors</i> , 2019, 19, 3881.	2.1	14
67	Residual effect of synthetic nitrogen fertilizers and impact on Soil Nitrifiers. <i>European Journal of Agronomy</i> , 2019, 109, 125917.	1.9	14
68	Interseeding cover crops into maize: Characterization of species performance under Mediterranean conditions. <i>Field Crops Research</i> , 2020, 249, 107762.	2.3	14
69	Sentinel-2 and WorldView-3 atmospheric correction and signal normalization based on ground-truth spectroradiometric measurements. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 173, 166-180.	4.9	12
70	High-Resolution Airborne Hyperspectral Imagery for Assessing Yield, Biomass, Grain N Concentration, and N Output in Spring Wheat. <i>Remote Sensing</i> , 2021, 13, 1373.	1.8	12
71	Thermographic Imaging: Assessment of Drought and Heat Tolerance in Spanish Germplasm of <i>Brachypodium Distachyon</i> . <i>Procedia Environmental Sciences</i> , 2013, 19, 262-266.	1.3	11
72	Assessment of Drought Indexes on Different Time Scales: A Case in Semiarid Mediterranean Grasslands. <i>Remote Sensing</i> , 2022, 14, 565.	1.8	11

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73	Improving Simulation of Soil Water Balance Using Lysimeter Observations in a Semiarid Climate. <i>Procedia Environmental Sciences</i> , 2013, 19, 534-542.	1.3	10
74	Simulating improved combinations tillage-rotation under dryland conditions. <i>Spanish Journal of Agricultural Research</i> , 2013, 11, 820.	0.3	10
75	Ammonia Volatilization from Surface or Incorporated Biosolids by the Addition of Dicyandiamide. <i>Journal of Environmental Quality</i> , 1998, 27, 980-983.	1.0	9
76	Recurrence plots for quantifying the vegetation indices dynamics in a semi-arid grassland. <i>Geoderma</i> , 2022, 406, 115488.	2.3	8
77	Evaluation of nitrate leaching in a vulnerable zone: effect of irrigation water and organic manure application. <i>Spanish Journal of Agricultural Research</i> , 2011, 9, 924.	0.3	8
78	Use of thermographic imaging to screen for drought-tolerant genotypes in <i>Brachypodium distachyon</i> . <i>Crop and Pasture Science</i> , 2016, 67, 99.	0.7	6
79	Available Nitrogen for Corn and Winter Cereal in Spanish Soils Measured by Electrode Ultrafiltration, Calcium Chloride, and Incubation Methods. <i>Communications in Soil Science and Plant Analysis</i> , 2007, 38, 2061-2075.	0.6	5
80	The Vegetationâ€™Climate System Complexity through Recurrence Analysis. <i>Entropy</i> , 2021, 23, 559.	1.1	5
81	Fertilizers. , 2016, , 321-339.		5
82	Effect of digested sewage sludge on the efficiency of N-fertilizer applied to barley. <i>Nutrient Cycling in Agroecosystems</i> , 1997, 48, 241-246.	1.1	4
83	Nitrogen Fertilizer Efficiency Determined by the 15N Dilution Technique in Maize Followed or Not by a Cover Crop in Mediterranean Chile. <i>Agriculture (Switzerland)</i> , 2021, 11, 721.	1.4	3
84	Nitrogen Fertilization I: The Nitrogen Balance. , 2016, , 341-368.		3
85	Productivity in agricultural systems under climate change scenarios. Evaluation and adaptation. <i>European Physical Journal Special Topics</i> , 2004, 121, 269-281.	0.2	2
86	Soil Nitrogen Availability after Addition of Thermally Dried Pig Slurry. <i>Soil Science Society of America Journal</i> , 2011, 75, 940-948.	1.2	2
87	Assessing crop residue cover when scene moisture conditions change. , 2015, , .		2
88	Improved Crop Residue Cover Estimates from Satellite Images by Coupling Residue and Water Spectral Indices. , 2018, , .		2
89	Nitrogen Fertilization II: Fertilizer Requirements. , 2016, , 369-380.		2
90	Vegetation indices from remote sensing imagery as proxies for yield and grain N in wheat. , 2019, , .		2

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91	Calibration of WAVE in Irrigated Maize: Fallow vs. Cover Crops. <i>Procedia Environmental Sciences</i> , 2013, 19, 785-793.	1.3	1
92	Water Management for Enhancing Crop Nutrient Use Efficiency and Reducing Losses. <i>Advances in Olericulture</i> , 2017, , 247-265.	0.4	1
93	Landsat-8 and Worldview-3 Data for Assessing Crop Residue Cover. , 2018, , .		1
94	Data supporting the cover crops benefits related to soil functionality in a 10-year cropping system. <i>Data in Brief</i> , 2018, 18, 1327-1333.	0.5	1
95	TEACHING CROP FERTILIZER REQUIREMENTS WITH THE NUTRIENT RECOMMENDATION MODEL FERTILICALC. , 2021, , .		0
96	Recurrence techniques for the analysis of vegetation indices and climate anomalies: a study case in semiarid grasslands. , 2021, , .		0
97	TEACHING WATER MANAGEMENT IN CROPPING SYSTEMS BY MEAN OF A DIDACTIC TOOL. <i>INTED Proceedings</i> , 2022, , .	0.0	0