

# Miguel Quemada

## List of Publications by Citations

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

3,154  
citations

34  
h-index

54  
g-index

99  
ext. papers

3,794  
ext. citations

4.8  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
94	Uncertainties in projected impacts of climate change on European agriculture and terrestrial ecosystems based on scenarios from regional climate models. <i>Climatic Change</i> , <b>2007</b> , 81, 123-143	4.5	254
93	Using cover crops to mitigate and adapt to climate change. A review. <i>Agronomy for Sustainable Development</i> , <b>2017</b> , 37, 1	6.8	181
92	Meta-analysis of strategies to control nitrate leaching in irrigated agricultural systems and their effects on crop yield. <i>Agriculture, Ecosystems and Environment</i> , <b>2013</b> , 174, 1-10	5.7	169
91	Strategies for greenhouse gas emissions mitigation in Mediterranean agriculture: A review. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 238, 5-24	5.7	137
90	Drainage and nitrate leaching under processing tomato growth with drip irrigation and plastic mulching. <i>Agriculture, Ecosystems and Environment</i> , <b>2006</b> , 112, 313-323	5.7	135
89	Carbon and Nitrogen Mineralized from Leaves and Stems of Four Cover Crops. <i>Soil Science Society of America Journal</i> , <b>1995</b> , 59, 471-477	2.5	117
88	Replacing bare fallow with cover crops in a maize cropping system: Yield, N uptake and fertiliser fate. <i>European Journal of Agronomy</i> , <b>2011</b> , 34, 133-143	5	101
87	The role of cover crops in irrigated systems: Water balance, nitrate leaching and soil mineral nitrogen accumulation. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 155, 50-61	5.7	94
86	Do cover crops enhance N <sub>2</sub> O, CO <sub>2</sub> or CH <sub>4</sub> emissions from soil in Mediterranean arable systems?. <i>Science of the Total Environment</i> , <b>2014</b> , 466-467, 164-74	10.2	90
85	Evaluation of chlorophyll meters as tools for N fertilization in winter wheat under humid Mediterranean conditions. <i>European Journal of Agronomy</i> , <b>2006</b> , 24, 140-148	5	83
84	Airborne Hyperspectral Images and Ground-Level Optical Sensors As Assessment Tools for Maize Nitrogen Fertilization. <i>Remote Sensing</i> , <b>2014</b> , 6, 2940-2962	5	82
83	Temperature and moisture effects on C and N mineralization from surface applied clover residue. <i>Plant and Soil</i> , <b>1997</b> , 189, 127-137	4.2	77
82	The kill date as a management tool for cover cropping success. <i>PLoS ONE</i> , <b>2014</b> , 9, e109587	3.7	63
81	Drainage and nitrate leaching in a crop rotation under different N-fertilizer strategies: application of capacitance probes. <i>Plant and Soil</i> , <b>2006</b> , 288, 57-69	4.2	62
80	Approaches for increasing nitrogen and water use efficiency simultaneously. <i>Global Food Security</i> , <b>2016</b> , 9, 29-35	8.3	60
79	Airborne and ground level sensors for monitoring nitrogen status in a maize crop. <i>Biosystems Engineering</i> , <b>2017</b> , 160, 124-133	4.8	58
78	Exploring nitrogen indicators of farm performance among farm types across several European case studies. <i>Agricultural Systems</i> , <b>2020</b> , 177, 102689	6.1	52

77	Cover crops to mitigate soil degradation and enhance soil functionality in irrigated land. <i>Geoderma</i> , <b>2018</b> , 322, 81-88	6.7	50
76	Cantaloupe line CZW-30 containing coat protein genes of cucumber mosaic virus, zucchini yellow mosaic virus, and watermelon mosaic virus-2 is resistant to these three viruses in the field. <i>Molecular Breeding</i> , <b>1997</b> , 3, 279-290	3.4	50
75	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> , <b>2019</b> , 660, 913-922	10.2	46
74	Effect of cover crops on greenhouse gas emissions in an irrigated field under integrated soil fertility management. <i>Biogeosciences</i> , <b>2016</b> , 13, 5245-5257	4.6	45
73	Cover crops effect on farm benefits and nitrate leaching: Linking economic and environmental analysis. <i>Agricultural Systems</i> , <b>2013</b> , 121, 23-32	6.1	43
72	A methodology for measuring drainage and nitrate leaching in unevenly irrigated vegetable crops. <i>Plant and Soil</i> , <b>2005</b> , 269, 297-308	4.2	43
71	The importance of the fallow period for N <sub>2</sub> O and CH <sub>4</sub> fluxes and nitrate leaching in a Mediterranean irrigated agroecosystem. <i>European Journal of Soil Science</i> , <b>2010</b> , 61, 710-720	3.4	41
70	CERES-N Model Predictions of Nitrogen Mineralized from Cover Crop Residues. <i>Soil Science Society of America Journal</i> , <b>1995</b> , 59, 1059-1065	2.5	41
69	Spectral Indices to Improve Crop Residue Cover Estimation under Varying Moisture Conditions. <i>Remote Sensing</i> , <b>2016</b> , 8, 660	5	39
68	Mapping Crop Residue and Tillage Intensity Using WorldView-3 Satellite Shortwave Infrared Residue Indices. <i>Remote Sensing</i> , <b>2018</b> , 10, 1657	5	38
67	Use of a chlorophyll meter to assess nitrogen nutrition index during the growth cycle in winter wheat. <i>Field Crops Research</i> , <b>2017</b> , 214, 73-82	5.5	37
66	The role of cover crops in irrigated systems: Soil salinity and salt leaching. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 158, 200-207	5.7	37
65	First-order impacts on winter and summer crops assessed with various high-resolution climate models in the Iberian Peninsula. <i>Climatic Change</i> , <b>2007</b> , 81, 343-355	4.5	36
64	Predicting crop residue decomposition using moisture adjusted time scales. <i>Nutrient Cycling in Agroecosystems</i> , <b>2004</b> , 70, 283-291	3.3	36
63	&nbsp; Ground cover and leaf area index relationship in a grass, legume and crucifer crop. <i>Plant, Soil and Environment</i> , <b>2012</b> , 58, 385-390	2.2	35
62	Nitrogen Release from Surface-Applied Cover Crop Residues: Evaluating the CERES-N Submodel. <i>Agronomy Journal</i> , <b>1997</b> , 89, 723-729	2.2	35
61	Nitrogen use efficiency and residual effect of fertilizers with nitrification inhibitors. <i>European Journal of Agronomy</i> , <b>2016</b> , 80, 1-8	5	35
60	Laboratory versus Field Calibration of Capacitance Probes. <i>Soil Science Society of America Journal</i> , <b>2010</b> , 74, 593-601	2.5	34

59	Arbuscular mycorrhizal fungal activity responses to winter cover crops in a sunflower and maize cropping system. <i>Applied Soil Ecology</i> , <b>2016</b> , 102, 10-18	5	29
58	Improved crop residue cover estimates obtained by coupling spectral indices for residue and moisture. <i>Remote Sensing of Environment</i> , <b>2018</b> , 206, 33-44	13.2	29
57	Assessing cover crop management under actual and climate change conditions. <i>Science of the Total Environment</i> , <b>2018</b> , 621, 1330-1341	10.2	27
56	Soil water balance: Comparing two simulation models of different levels of complexity with lysimeter observations. <i>Agricultural Water Management</i> , <b>2014</b> , 139, 53-63	5.9	27
55	Multicriteria decision analysis applied to cover crop species and cultivars selection. <i>Field Crops Research</i> , <b>2015</b> , 175, 106-115	5.5	27
54	Nitrogen use efficiency and fertiliser fate in a long-term experiment with winter cover crops. <i>European Journal of Agronomy</i> , <b>2016</b> , 79, 14-22	5	27
53	Quantitative characterization of five cover crop species. <i>Journal of Agricultural Science</i> , <b>2015</b> , 153, 1174-1185		26
52	Strategies to Improve Nitrogen Use Efficiency in Winter Cereal Crops under Rainfed Conditions. <i>Agronomy Journal</i> , <b>2008</b> , 100, 277-284	2.2	26
51	Characteristic moisture curves and maximum water content of two crop residues. <i>Plant and Soil</i> , <b>2002</b> , 238, 295-299	4.2	26
50	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> , <b>2019</b> , 241, 118307	10.3	25
49	Intercropping effect on root growth and nitrogen uptake at different nitrogen levels. <i>Journal of Plant Ecology</i> , <b>2015</b> , 8, 380-389	1.7	25
48	Comparison of Methods for Modeling Fractional Cover Using Simulated Satellite Hyperspectral Imager Spectra. <i>Remote Sensing</i> , <b>2019</b> , 11, 2072	5	22
47	Strategies to Improve Nitrogen Use Efficiency in Winter Cereal Crops under Rainfed Conditions. <i>Agronomy Journal</i> , <b>2008</b> , 100, 277	2.2	22
46	Soil respiration 1 year after sewage sludge application. <i>Biology and Fertility of Soils</i> , <b>2001</b> , 33, 344-346	6.1	22
45	Weed density and diversity in a long-term cover crop experiment background. <i>Crop Protection</i> , <b>2018</b> , 112, 103-111	2.7	20
44	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> , <b>2001</b> , 71, 325-31	1.7	19
43	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> , <b>2019</b> , 212, 399-406	5.9	18
42	Integrated management for sustainable cropping systems: Looking beyond the greenhouse balance at the field scale. <i>Global Change Biology</i> , <b>2020</b> , 26, 2584	11.4	12

41	Predicting N Status in Maize with Clip Sensors: Choosing Sensor, Leaf Sampling Point, and Timing. <i>Sensors</i> , <b>2019</b> , 19,	3.8	11
40	Legacy of eight-year cover cropping on mycorrhizae, soil, and plants. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2018</b> , 181, 818-826	2.3	11
39	Mapping Crop Residue by Combining Landsat and WorldView-3 Satellite Imagery. <i>Remote Sensing</i> , <b>2019</b> , 11, 1857	5	10
38	Integrating Water, Nitrogen, and Salinity in Sustainable Irrigated Systems: Cover Crops versus Fallow. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2014</b> , 140,	1.1	10
37	Simulating improved combinations tillage-rotation under dryland conditions. <i>Spanish Journal of Agricultural Research</i> , <b>2013</b> , 11, 820	1.1	10
36	The cover crop termination choice to designing sustainable cropping systems. <i>European Journal of Agronomy</i> , <b>2020</b> , 114, 126000	5	10
35	Assessing the cover crop effect on soil hydraulic properties by inverse modelling in a 10-year field trial. <i>Agricultural Water Management</i> , <b>2019</b> , 222, 62-71	5.9	9
34	FertiCalc: A Decision Support System for Fertilizer Management. <i>International Journal of Plant Production</i> , <b>2020</b> , 14, 299-308	2.4	9
33	Thermographic Imaging: Assessment of Drought and Heat Tolerance in Spanish Germplasm of Brachypodium Distachyon. <i>Procedia Environmental Sciences</i> , <b>2013</b> , 19, 262-266		9
32	Improving Simulation of Soil Water Balance Using Lysimeter Observations in a Semiarid Climate. <i>Procedia Environmental Sciences</i> , <b>2013</b> , 19, 534-542		9
31	Residual effect of synthetic nitrogen fertilizers and impact on Soil Nitrifiers. <i>European Journal of Agronomy</i> , <b>2019</b> , 109, 125917	5	7
30	Interseeding cover crops into maize: Characterization of species performance under Mediterranean conditions. <i>Field Crops Research</i> , <b>2020</b> , 249, 107762	5.5	7
29	Predicting crop residue decomposition using moisture adjusted time scales. <i>Nutrient Cycling in Agroecosystems</i> , <b>2005</b> , 70, 283-291	3.3	7
28	Evaluation of nitrate leaching in a vulnerable zone: effect of irrigation water and organic manure application. <i>Spanish Journal of Agricultural Research</i> , <b>2011</b> , 9, 924	1.1	7
27	Ammonia Volatilization from Surface or Incorporated Biosolids by the Addition of Dicyandiamide. <i>Journal of Environmental Quality</i> , <b>1998</b> , 27, 980-983	3.4	6
26	Available Nitrogen for Corn and Winter Cereal in Spanish Soils Measured by Electro-ultrafiltration, Calcium Chloride, and Incubation Methods. <i>Communications in Soil Science and Plant Analysis</i> , <b>2007</b> , 38, 2061-2075	1.5	5
25	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> , <b>2021</b> , 1-17	8.1	5
24	Simultaneous assessment of nitrogen and water status in winter wheat using hyperspectral and thermal sensors. <i>European Journal of Agronomy</i> , <b>2021</b> , 127, 126287	5	5

23	Use of thermographic imaging to screen for drought-tolerant genotypes in <i>Brachypodium distachyon</i> . <i>Crop and Pasture Science</i> , <b>2016</b> , 67, 99	2.2	4
22	Effect of digested sewage sludge on the efficiency of N-fertilizer applied to barley. <i>Nutrient Cycling in Agroecosystems</i> , <b>1997</b> , 48, 241-246	3.3	4
21	Nitrogen dynamics in cropping systems under Mediterranean climate: a systemic analysis. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 073002	6.2	4
20	Fertilizers <b>2016</b> , 321-339		3
19	High-Resolution Airborne Hyperspectral Imagery for Assessing Yield, Biomass, Grain N Concentration, and N Output in Spring Wheat. <i>Remote Sensing</i> , <b>2021</b> , 13, 1373	5	3
18	The Vegetation-Climate System Complexity through Recurrence Analysis. <i>Entropy</i> , <b>2021</b> , 23,	2.8	3
17	Fertilization with Phosphorus, Potassium and Other Nutrients <b>2016</b> , 381-405		3
16	Assessing crop residue cover when scene moisture conditions change <b>2015</b> ,		2
15	Assessment of Drought Indexes on Different Time Scales: A Case in Semiarid Mediterranean Grasslands. <i>Remote Sensing</i> , <b>2022</b> , 14, 565	5	2
14	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> , <b>2021</b> , 173, 166-180	11.8	2
13	Cover crops reduce soil resistance to penetration by preserving soil surface water content. <i>Geoderma</i> , <b>2021</b> , 386, 114911	6.7	2
12	Calibration of WAVE in Irrigated Maize: Fallow vs. Cover Crops. <i>Procedia Environmental Sciences</i> , <b>2013</b> , 19, 785-793		1
11	Soil Nitrogen Availability after Addition of Thermally Dried Pig Slurry. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 940-948	2.5	1
10	Productivity in agricultural systems under climate change scenarios. Evaluation and adaptation. <i>European Physical Journal Special Topics</i> , <b>2004</b> , 121, 269-281		1
9	Establishing long-term nitrogen response of global cereals to assess sustainable fertilizer rates. <i>Nature Food</i> ,	14.4	1
8	Nitrogen Fertilization I: The Nitrogen Balance <b>2016</b> , 341-368		1
7	Nitrogen Fertilization II: Fertilizer Requirements <b>2016</b> , 369-380		1
6	Improved Crop Residue Cover Estimates from Satellite Images by Coupling Residue and Water Spectral Indices <b>2018</b> ,		1

5	Landsat-8 and Worldview-3 Data for Assessing Crop Residue Cover <b>2018</b> ,		1
4	Data supporting the cover crops benefits related to soil functionality in a 10-year cropping system. <i>Data in Brief</i> , <b>2018</b> , 18, 1327-1333	1.2	1
3	Recurrence plots for quantifying the vegetation indices dynamics in a semi-arid grassland. <i>Geoderma</i> , <b>2022</b> , 406, 115488	6.7	1
2	Water Management for Enhancing Crop Nutrient Use Efficiency and Reducing Losses. <i>Advances in Olericulture</i> , <b>2017</b> , 247-265		0
1	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> , <b>2021</b> , 11, 721	3	