

Pere Muñoz

List of Publications by Year in descending order

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64
papers

2,515
citations

186265

28
h-index

197818

49
g-index

64
all docs

64
docs citations

64
times ranked

2796
citing authors

#	ARTICLE	IF	CITATIONS
1	Application challenges for the social Life Cycle Assessment of fertilizers within life cycle sustainability assessment. <i>Journal of Cleaner Production</i> , 2014, 69, 34-48.	9.3	198
2	Compost benefits for agriculture evaluated by life cycle assessment. A review. <i>Agronomy for Sustainable Development</i> , 2013, 33, 721-732.	5.3	171
3	LCA of a tomato crop in a multi-tunnel greenhouse in Almeria. <i>International Journal of Life Cycle Assessment</i> , 2012, 17, 863-875.	4.7	150
4	Assessment of tomato Mediterranean production in open-field and standard multi-tunnel greenhouse, with compost or mineral fertilizers, from an agricultural and environmental standpoint. <i>Journal of Cleaner Production</i> , 2011, 19, 985-997.	9.3	145
5	Environmental assessment of an integrated rooftop greenhouse for food production in cities. <i>Journal of Cleaner Production</i> , 2018, 177, 326-337.	9.3	113
6	Life cycle assessment of the use of compost from municipal organic waste for fertilization of tomato crops. <i>Resources, Conservation and Recycling</i> , 2009, 53, 340-351.	10.8	106
7	Uptake and persistence of pesticides in plants: Measurements and model estimates for imidacloprid after foliar and soil application. <i>Journal of Hazardous Materials</i> , 2009, 165, 683-689.	12.4	103
8	Transpiration from geranium grown under high temperatures and low humidities in greenhouses. <i>Agricultural and Forest Meteorology</i> , 2001, 107, 323-332.	4.8	92
9	Simulation of nitrogen leaching from a fertigated crop rotation in a Mediterranean climate using the EU-Rotate_N and Hydrus-2D models. <i>Agricultural Water Management</i> , 2010, 97, 277-285.	5.6	78
10	Life Cycle Assessment of apple and peach production, distribution and consumption in Mediterranean fruit sector. <i>Journal of Cleaner Production</i> , 2017, 149, 313-320.	9.3	77
11	Uptake of microcontaminants by crops irrigated with reclaimed water and groundwater under real field greenhouse conditions. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3629-3638.	5.3	66
12	A study on air quality and heavy metals content of urban food produced in a Mediterranean city (Barcelona). <i>Journal of Cleaner Production</i> , 2018, 195, 385-395.	9.3	65
13	Effect of Insect-proof Screens and Roof Openings on Greenhouse Ventilation. <i>Biosystems Engineering</i> , 1999, 73, 171-178.	0.4	63
14	Assessing potential desertification environmental impact in life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , 2010, 15, 67-78.	4.7	61
15	Assessing the Environmental Impact of Water Consumption by Energy Crops Grown in Spain. <i>Journal of Industrial Ecology</i> , 2013, 17, 90-102.	5.5	58
16	Inclusion of soil erosion impacts in life cycle assessment on a global scale: application to energy crops in Spain. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 755-767.	4.7	55
17	Roofs of the Future: Rooftop Greenhouses to Improve Buildings Metabolism. <i>Procedia Engineering</i> , 2015, 123, 441-448.	1.2	55
18	High decrease in nitrate leaching by lower N input without reducing greenhouse tomato yield. <i>Agronomy for Sustainable Development</i> , 2008, 28, 489-495.	5.3	53

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19	Improvement of Agricultural Life Cycle Assessment Studies through Spatial Differentiation and New Impact Categories: Case Study on Greenhouse Tomato Production. <i>Environmental Science & Technology</i> , 2014, 48, 9454-9462.	10.0	51
20	A method of coupling CFD and energy balance simulations to study humidity control in unheated greenhouses. <i>Computers and Electronics in Agriculture</i> , 2015, 115, 129-141.	7.7	49
21	Comparing nutritional value and yield as functional units in the environmental assessment of horticultural production with organic or mineral fertilization. <i>International Journal of Life Cycle Assessment</i> , 2011, 16, 12-26.	4.7	48
22	COMPARING THE ENVIRONMENTAL IMPACTS OF GREENHOUSE VERSUS OPEN-FIELD TOMATO PRODUCTION IN THE MEDITERRANEAN REGION. <i>Acta Horticulturae</i> , 2008, , 1591-1596.	0.2	47
23	Life Cycle Assessment of multiyear peach production. <i>Journal of Cleaner Production</i> , 2015, 104, 68-79.	9.3	41
24	Analysis of urban agriculture solid waste in the frame of circular economy: Case study of tomato crop in integrated rooftop greenhouse. <i>Science of the Total Environment</i> , 2020, 734, 139375.	8.0	41
25	COMPUTATIONAL FLUID DYNAMIC MODELLING OF NIGHT-TIME ENERGY FLUXES IN UNHEATED GREENHOUSES. <i>Acta Horticulturae</i> , 2005, , 403-410.	0.2	39
26	LCA and tomato production in Mediterranean greenhouses. , 2005, 4, 102.		35
27	Environmental assessment of two home composts with high and low gaseous emissions of the composting process. <i>Resources, Conservation and Recycling</i> , 2014, 90, 9-20.	10.8	33
28	Environmental and agronomical assessment of three fertilization treatments applied in horticultural open field crops. <i>Journal of Cleaner Production</i> , 2014, 67, 147-158.	9.3	31
29	Shading screens for the improvement of the night time climate of unheated greenhouses. <i>Spanish Journal of Agricultural Research</i> , 2013, 11, 32.	0.6	31
30	Current trends in protected cultivation in Mediterranean climates. <i>European Journal of Horticultural Science</i> , 2018, 83, 294-305.	0.7	30
31	Building-integrated agriculture: A first assessment of aerobiological air quality in rooftop greenhouses (i-RTGs). <i>Science of the Total Environment</i> , 2017, 598, 109-120.	8.0	27
32	Improving waste management in protected horticulture. <i>Agronomy for Sustainable Development</i> , 2005, 25, 447-453.	5.3	27
33	N2O emissions from protected soilless crops for more precise food and urban agriculture life cycle assessments. <i>Journal of Cleaner Production</i> , 2017, 149, 1118-1126.	9.3	26
34	Productivity of a building-integrated roof top greenhouse in a Mediterranean climate. <i>Agricultural Systems</i> , 2017, 158, 14-22.	6.1	26
35	Optimizing irrigation in urban agriculture for tomato crops in rooftop greenhouses. <i>Science of the Total Environment</i> , 2021, 794, 148689.	8.0	23
36	Life cycle assessment of organic and mineral fertilizers in a crop sequence of cauliflower and tomato. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3299-3316.	3.5	20

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37	Applying nutrient dynamics to adjust the nutrient-water balance in hydroponic crops. A case study with open hydroponic tomato crops from Barcelona. <i>Scientia Horticulturae</i> , 2020, 261, 108908.	3.6	19
38	Assessing the Environmental Benefits of Compost Use-on-Land through an LCA Perspective. <i>Sustainable Agriculture Reviews</i> , 2013, , 255-318.	1.1	17
39	A new optimisation methodology used to study the effect of cover properties on night-time greenhouse climate. <i>Biosystems Engineering</i> , 2013, 116, 130-143.	4.3	16
40	Technology for Rooftop Greenhouses. <i>Urban Agriculture</i> , 2017, , 83-101.	0.5	16
41	Multifunctionality-solving approaches of compost application in crop rotations. <i>Journal of Cleaner Production</i> , 2014, 64, 384-395.	9.3	14
42	Economic profitability of agroforestry in nitrate vulnerable zones in Catalonia (NE Spain). <i>Spanish Journal of Agricultural Research</i> , 2019, 17, e0101.	0.6	13
43	Heating and dehumidification in production greenhouses at northern latitudes: energy use. <i>Acta Horticulturae</i> , 2017, , 445-452.	0.2	11
44	Identifying potential applications for residual biomass from urban agriculture through eco-ideation: Tomato stems from rooftop greenhouses. <i>Journal of Cleaner Production</i> , 2021, 295, 126360.	9.3	10
45	Municipal solid waste composting: Application as a tomato fertilizer and its effect on crop yield, fruit quality and phenolic content. <i>Renewable Agriculture and Food Systems</i> , 2017, 32, 358-365.	1.8	8
46	Carbon footprint and profitability of two apple cultivation training systems: Central axis and Fruiting wall. <i>Scientia Horticulturae</i> , 2018, 229, 233-239.	3.6	7
47	IDENTIFICATION OF THE MAIN FACTORS AFFECTING THE ENVIRONMENTAL IMPACT OF PASSIVE GREENHOUSES. <i>Acta Horticulturae</i> , 2005, , 489-494.	0.2	7
48	ENVIRONMENTAL AND ECONOMIC EVALUATION OF GREENHOUSE COOLING SYSTEMS IN SOUTHERN SPAIN. <i>Acta Horticulturae</i> , 2006, , 211-214.	0.2	6
49	Potential of different energy saving strategies in heated greenhouse. <i>Acta Horticulturae</i> , 2017, , 467-474.	0.2	6
50	Comparison of organic substrates in urban rooftop agriculture, towards improving crop production resilience to temporary drought in Mediterranean cities. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 5888-5897.	3.5	6
51	Assessment of energy consumption in organic tomato greenhouse production “a case study. <i>Acta Horticulturae</i> , 2017, , 453-460.	0.2	5
52	Assessing potential desertification environmental impact in life cycle assessment. Part 2: agricultural case study in Spain and Argentina. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1302-1315.	4.7	4
53	Numerical simulation of the effect of different mulches on the heat storage capacity of a Mediterranean greenhouse soil. <i>Acta Horticulturae</i> , 2017, , 119-128.	0.2	4
54	Improving the Metabolism and Sustainability of Buildings and Cities Through Integrated Rooftop Greenhouses (i-RTG). <i>Sustainable Development and Biodiversity</i> , 2018, , 53-72.	1.7	4

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55	SUGGESTIONS TO IMPROVE LEEWARD VENTILATION OF LARGE SPAN GREENHOUSES. Acta Horticulturae, 2008, , 949-954.	0.2	3
56	SOIL AND PLANT NITROGEN DYNAMICS OF A TOMATO CROP UNDER DIFFERENT FERTILIZATION STRATEGIES. Acta Horticulturae, 2010, , 207-214.	0.2	3
57	Ongoing developments in greenhouse climate control. Acta Horticulturae, 2017, , 1-14.	0.2	1
58	Energy use for greenhouse heating in organic production in southern European countries. Acta Horticulturae, 2017, , 439-444.	0.2	1
59	Regional Assessment of Waste Flow Eco-Synergy in Food Production: Using Compost and Polluted Ground Water in Mediterranean Horticulture Crops. , 2011, , 319-330.		0
60	Resources Sustainability. N Application in Crops to Determine the Best Environmental Performance Using Life Cycle Assessment Methodology. Environmental Management and Sustainable Development, 2019, 8, 71.	0.2	0
61	COMPARATIVE TESTS AND MODELLING OF HUMIDITY CONTROL STRATEGIES IN MEDITERRANEAN GREENHOUSES PLACED IN CONTINENTAL AND COASTAL SITES. Acta Horticulturae, 2005, , 195-202.	0.2	0
62	IMPROVEMENTS IN THE LIFE CYCLE APPROACH AS AN ENVIRONMENTAL EVALUATION TOOL IN ORGANIC FARMING. Acta Horticulturae, 2014, , 287-290.	0.2	0
63	Eco-ideation techniques to identify potential applications for the organic waste from urban agriculture as eco-material. , 0, , .		0
64	Environmental Assessment of Two Irrigation Systems in an Organic Tomato Crop System Under Manure Compost Fertilization: a Sustainable Circular Economy Approach in Catalonia (Spain). Circular Economy and Sustainability, 2022, 2, 1445-1462.	5.5	0