

Miguel Urrestarazu Gavilán

List of Publications by Year in descending order

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115
papers

1,750
citations

361413

20
h-index

330143

37
g-index

116
all docs

116
docs citations

116
times ranked

1583
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical greenery systems for energy savings in buildings: A comparative study between green walls and green facades. <i>Building and Environment</i> , 2017, 111, 228-237.	6.9	252
2	Evaluation of green walls as a passive acoustic insulation system for buildings. <i>Applied Acoustics</i> , 2015, 89, 46-56.	3.3	198
3	Acoustic insulation capacity of Vertical Greenery Systems for buildings. <i>Applied Acoustics</i> , 2016, 110, 218-226.	3.3	76
4	Effects of peracetic acid disinfectant on the postharvest of some fresh vegetables. <i>Journal of Food Engineering</i> , 2009, 95, 11-15.	5.2	73
5	Almond shell waste: possible local rockwool substitute in soilless crop culture. <i>Scientia Horticulturae</i> , 2005, 103, 453-460.	3.6	65
6	Increased Electrical Conductivity in Nutrient Solution Management Enhances Dietary and Organoleptic Qualities in Soilless Culture Tomato. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2017, 52, 868-872.	1.0	44
7	Effect of the Spectral Quality and Intensity of Light-emitting Diodes on Several Horticultural Crops. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2016, 51, 268-271.	1.0	41
8	LED-enhanced dietary and organoleptic qualities in postharvest tomato fruit. <i>Postharvest Biology and Technology</i> , 2018, 145, 151-156.	6.0	38
9	Acoustic evaluation of modular greenery noise barriers. <i>Urban Forestry and Urban Greening</i> , 2016, 20, 172-179.	5.3	37
10	Wetting agent effect on physical properties of new and reused rockwool and coconut coir waste. <i>Scientia Horticulturae</i> , 2008, 116, 104-108.	3.6	36
11	Vegetable Waste Compost as Substrate for Melon. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 1557-1572.	1.4	35
12	Effect of slow-release oxygen supply by fertigation on horticultural crops under soilless culture. <i>Scientia Horticulturae</i> , 2005, 106, 484-490.	3.6	34
13	Effect of Substrate Reutilization on Yield and Properties of Melon and Tomato Crops. <i>Journal of Plant Nutrition</i> , 2008, 31, 2031-2043.	1.9	34
14	Green Chemistry in Protected Horticulture: The Use of Peroxyacetic Acid as a Sustainable Strategy. <i>International Journal of Molecular Sciences</i> , 2010, 11, 1999-2009.	4.1	31
15	EFFECTS OF SALINITY AND THE INTERACTION BETWEEN <i>THYMUS VULGARIS</i> AND <i>LAVANDULA ANGUSTIFOLIA</i> ON GROWTH, ETHYLENE PRODUCTION AND ESSENTIAL OIL CONTENTS. <i>Journal of Plant Nutrition</i> , 2014, 37, 875-888.	1.9	30
16	Effect of the Intensity and Spectral Quality of LED Light on Yield and Nitrate Accumulation in Vegetables. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2019, 54, 1745-1750.	1.0	28
17	Effects of Heating Nutrient Solution on Water and Mineral Uptake and Early Yield of Two Cucurbits under Soilless Culture. <i>Journal of Plant Nutrition</i> , 2008, 31, 527-538.	1.9	25
18	Effect of controlling the leaching fraction on the fertigation and production of a tomato crop under soilless culture. <i>Scientia Horticulturae</i> , 2014, 179, 153-157.	3.6	25

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19	Nitrate accumulation reduction using chloride in the nutrient solution on lettuce growing by NFT in semiarid climate conditions. <i>Journal of Plant Nutrition</i> , 1998, 21, 1705-1714.	1.9	24
20	Active and total Fe in castanea sativa and their relation to other nutrients. <i>Journal of Plant Nutrition</i> , 1986, 9, 909-921.	1.9	21
21	Infrared thermography used to diagnose the effects of salinity in a soilless culture. <i>Quantitative InfraRed Thermography Journal</i> , 2013, 10, 1-8.	4.2	21
22	Fatty acid profiles and sn -2 fatty acid distribution of $\hat{1}^3$ -linolenic acid-rich Borago species. <i>Journal of Food Composition and Analysis</i> , 2018, 66, 74-80.	3.9	21
23	Mycorrhiza-Induced Resistance against Foliar Pathogens Is Uncoupled of Nutritional Effects under Different Light Intensities. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 402.	3.5	21
24	Sardinian Boraginaceae are new potential sources of gamma-linolenic acid. <i>Food Chemistry</i> , 2017, 218, 435-439.	8.2	20
25	Borage oil: Tocopherols, sterols and squalene in farmed and endemic-wild Borago species. <i>Journal of Food Composition and Analysis</i> , 2019, 83, 103299.	3.9	20
26	STATE OF THE ART AND NEW TRENDS OF SOILLESS CULTURE IN SPAIN AND IN EMERGING COUNTRIES. <i>Acta Horticulturae</i> , 2013, , 305-312.	0.2	19
27	LED Enhances Plant Performance and Both Carotenoids and Nitrates Profiles in Lettuce. <i>Plant Foods for Human Nutrition</i> , 2021, 76, 210-218.	3.2	17
28	WOOD FIBER AS GROWING MEDIUM IN HYDROPONIC CROP. <i>Acta Horticulturae</i> , 2005, , 179-185.	0.2	15
29	Comparative Physiological Analysis of Salinity Effects in Six Olive Genotypes. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 901-904.	1.0	15
30	Microplastics and Their Effect in Horticultural Crops: Food Safety and Plant Stress. <i>Agronomy</i> , 2021, 11, 1528.	3.0	14
31	Effects of Silicon in the Nutrient Solution for Three Horticultural Plant Families on the Vegetative Growth, Cuticle, and Protection Against Botrytis cinerea. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2015, 50, 1447-1452.	1.0	14
32	Modeling electrical conductivity management in a recirculating nutrient solution under semiá€arid conditions. <i>Journal of Plant Nutrition</i> , 2000, 23, 457-468.	1.9	13
33	Development of a New Control Algorithm for Automatic Irrigation Scheduling in Soilless Culture. <i>Applied Mathematics and Information Sciences</i> , 2015, 9, 47-56.	0.5	13
34	Thermography Study of Moderate Electrical Conductivity and Nutrient Solution Distribution System Effects on Grafted Tomato Soilless Culture. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2013, 48, 1508-1512.	1.0	13
35	A daily rhythmic model for ph and volume from xylem sap of tomato plants. <i>Communications in Soil Science and Plant Analysis</i> , 1996, 27, 1859-1874.	1.4	12
36	Effect of nutrient solution salinity and ionic concentration on parsley (<i>Petroselinum</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,62 Td (cris	1.9	12

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37	Xylem sap extraction: A method. <i>Communications in Soil Science and Plant Analysis</i> , 1994, 25, 1829-1839.	1.4	11
38	EVALUATION OF DIFFERENT COMPOSTS FROM HORTICULTURAL CROP RESIDUES AND THEIR USES IN GREENHOUSE SOILLESS CROPPING. <i>Acta Horticulturae</i> , 2001, , 147-152.	0.2	11
39	A New Local Sustainable Inorganic Material for Soilless Culture in Spain: Granulated Volcanic Rock. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 1537-1541.	1.0	11
40	The Use of Thermography Images in the Description of the Humidification Bulb in Soilless Culture. <i>Communications in Soil Science and Plant Analysis</i> , 2017, 48, 1595-1602.	1.4	10
41	Effect of pH and Silicon in the Fertigation Solution on Vegetative Growth of Blueberry Plants in Organic Agriculture. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018, 53, 1423-1428.	1.0	10
42	Container Design Affects Shoot and Root Growth of Vegetable Plant. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2020, 55, 787-794.	1.0	10
43	A Comparison of Chemical Properties Between Gypsophile and Nongypsophile Plant Rhizospheres. <i>Arid Land Research and Management</i> , 2002, 16, 47-54.	1.6	9
44	The Effect of Amendment of Vegetable Waste Compost Used as Substrate in Soilless Culture on Yield and Quality of Melon Crops. <i>Compost Science and Utilization</i> , 2009, 17, 103-107.	1.2	9
45	Oxygen Content and its Diurnal Variation in a New Recirculating Water Soilless Culture for Horticultural Crops. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2005, 40, 1729-1730.	1.0	9
46	Treatment with Peracetic Acid Extends the Vase Life of Lisianthus (<i>Eustoma grandiflorum</i>) Flowers. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 418-420.	1.0	9
47	MAGUEY BAGASSE WASTE AS SUSTAINABLE SUBSTRATE IN SOILLESS CULTURE BY MELON AND TOMATO CROP. <i>Journal of Plant Nutrition</i> , 2012, 35, 2135-2144.	1.9	8
48	Common Chicory Performance as Influenced by Iron Concentration in the Nutrient Solution. <i>Journal of Plant Nutrition</i> , 2015, 38, 1489-1494.	1.9	8
49	Influence of salinity on transport of Nitrates and Potassium by means of the xylem sap content between roots and shoots in young tomato plants. <i>Journal of Soil Science and Plant Nutrition</i> , 2016, , 0-0.	3.4	8
50	Agronomic and Economic Feasibility of Tomato and Lettuce Intercropping in a Soilless System as a Function of the Electrical Conductivity of the Nutrient Solution. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2017, 52, 1195-1200.	1.0	8
51	Influence of drainage and nutrient-solution nitrogen and potassium concentrations on the agronomic behavior of bell-pepper plants cultivated in a substrate. <i>PLoS ONE</i> , 2017, 12, e0180529.	2.5	8
52	Effects of the electrical conductivity of a soilless culture system on gamma linolenic acid levels in borage seed oil. <i>PLoS ONE</i> , 2019, 14, e0207106.	2.5	8
53	Phenolic composition and in vitro antiproliferative activity of <i>Borago</i> spp. seed extracts on HT-29 cancer cells. <i>Food Bioscience</i> , 2021, 42, 101043.	4.4	8
54	The Effects of Slope and Channel Nutrient Solution Gap Number on the Yield of Tomato Crops by a Nutrient Film Technique System under a Warm Climate. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011, 46, 727-729.	1.0	8

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55	Effects of Fertigation Duration on the Pollution, Water Consumption, and Productivity of Soilless Vegetable Cultures. Hortscience: A Publication of the American Society for Horticultural Science, 2015, 50, 819-825.	1.0	8
56	Use of Peroxyacetic Acid as Green Chemical on Yield and Sensorial Quality in Watercress (<i>Nasturtium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T 9463-9470.	4.1	7
57	Automatic Irrigation Control System for Soilless Culture Based on Feedback from Drainage Hydrograph. Applied Engineering in Agriculture, 2017, 33, 531-542.	0.7	7
58	Iron index in horticultural crops. , 1991, , 357-361.		7
59	Index and equilibrium of Fe in plants of <i>Juglans Regia</i> L.. Journal of Plant Nutrition, 1984, 7, 117-124.	1.9	6
60	MINERAL NUTRITION AND PRODUCTIVITY OF HYDROPONICALLY GROWN TOMATOES IN RELATION TO NUTRIENT SOLUTION RECYCLING. Acta Horticulturae, 2003, , 219-223.	0.2	6
61	New Adaptive Hybrid-Automatic Irrigation Control System for Soilless Culture. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, .	1.0	6
62	Rosemary growth and nutrient balance: Leachate fertigation with leachates versus conventional fertigation. Scientia Horticulturae, 2018, 242, 62-68.	3.6	6
63	Remediation of Iron Chlorosis by the Addition of Fe-o,o-EDDHA in the Nutrient Solution Applied to Soilless Culture. Hortscience: A Publication of the American Society for Horticultural Science, 2008, 43, 1434-1436.	1.0	6
64	Iron indices and micronutrients in deciduous fruit trees. Communications in Soil Science and Plant Analysis, 1994, 25, 1685-1701.	1.4	5
65	METHODS OF CORRECTION OF VEGETABLE WASTE COMPOST USED AS SUBSTRATE BY SOILLESS CULTURE. Acta Horticulturae, 2003, , 229-233.	0.2	5
66	ROCKET PRODUCTION (<i>ERUCA SATIVA</i> MILL.) IN A FLOATING SYSTEM USING PERACETIC ACID AS OXYGEN SOURCE COMPARED WITH SUBSTRATE CULTURE. Journal of Plant Nutrition, 2011, 34, 1397-1401.	1.9	5
67	Contribution of thermal imaging to fertigation in soilless culture. Journal of Thermal Analysis and Calorimetry, 2014, 116, 1033-1039.	3.6	5
68	Effect of the Drip Flow Rate with Multiple Manifolds on the Homogeneity of the Delivered Volume. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, 04014048.	1.0	5
69	Vertical Greening Systems. , 2018, , 55-63.		5
70	CONTENIDO DE NITRATOS EN LECHUGAS CULTIVADAS EN SISTEMAS HIDROPÑNICOS. Idesia, 2006, 24, 25.	0.3	4
71	GREENHOUSE MICROCLIMATE AND ITS NATURAL VARIATION IN TWO SUBTYPES OF AN ALMERÑ GREENHOUSE. Acta Horticulturae, 2006, , 147-156.	0.2	4
72	RESPONSE OF LIME THYME TO SALINITY AND IONIC CONCENTRATION IN NUTRIENT SOLUTION. Journal of Plant Nutrition, 2013, 36, 562-565.	1.9	4

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73	Effect of a Passive Mixing Device on the Electrical Conductivity and pH Values of a Nutrient Solution. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, 04013022.	1.0	4
74	Effect of fertigation using fish production wastewater on <i>Pelargonium x zonale</i> growth and nutrient content. <i>Agricultural Water Management</i> , 2019, 223, 105726.	5.6	4
75	Impact of Silicon on Chemical Properties of Drainage Water from Lettuce Following Determination of Proper Cultivar and Light Spectrum. <i>Communications in Soil Science and Plant Analysis</i> , 2021, 52, 756-768.	1.4	4
76	RESPONSE OF GREENHOUSE MELON AND TOMATO CROPS TO WASTEWATER FERTIRRIGATION. <i>Acta Horticulturae</i> , 2004, , 391-396.	0.2	4
77	Effect of the Matric Potential on Growth and Water, Nitrate and Potassium Absorption of Vegetables under Soilless Culture. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 3493-3501.	3.4	4
78	Chronophysiological rhythm model for daily ionic variation of xylematic exudates in tomato plants. <i>Communications in Soil Science and Plant Analysis</i> , 1996, 27, 1843-1858.	1.4	3
79	CUCUMBER CROP RESPONSE TO HEATED NUTRIENT SOLUTION IN SOILLESS CROP. <i>Acta Horticulturae</i> , 2003, , 649-653.	0.2	3
80	EFFECT OF IBA APPLICATION BY FERTIGATION ON MELON IN SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2003, , 225-228.	0.2	3
81	COMPARISON BETWEEN DIFFERENT FERTIGATION PARAMETERS AND YIELD USING PURE COMPOST AND COIR WASTE FIBRE IN TOMATO (<i>LYCOPERSICON ESCULENTUM</i> CV PITENZA) CROP BY SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2004, , 653-656.	0.2	3
82	Vegetable Waste Compost Used as Substrate in Soilless Culture. , 2012, , .		3
83	Effect of Particle Size and Reused Organic Substrates on Tomato Crop Production. <i>Journal of Plant Nutrition</i> , 2015, 38, 1877-1884.	1.9	3
84	Productivity under Shade and Different Nutrient Solution of Hydroponic Watercress (<i>Nasturtium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.9	3
85	Sensors in Precision Agriculture for the Monitoring of Plant Development and Improvement of Food Production. <i>Journal of Sensors</i> , 2019, 2019, 1-2.	1.1	3
86	Linolenic and Stearidonic Acids from Boraginaceae of Diverse Mediterranean Origin. <i>Chemistry and Biodiversity</i> , 2020, 17, e2000627.	2.1	3
87	Effects of Si in nutrient solution on leaf cuticles. <i>Scientia Horticulturae</i> , 2021, 278, 109863.	3.6	3
88	PLANT DENSITY ON YIELD OF RED CHICORY HEADS - RADICCHIO ROSSO - (<i>CICHORIUM INTYBUS</i> L. VAR.) Tj ETQq0,0,0 rgBT /Overlock 1	0.2	2
89	DAILY WATER UPTAKE OF A TOMATO CROP GROWN BY NFT UNDER SEMI ARID CONDITIONS AS AFFECTED BY SOLAR RADIATION AND OTHER ENVIRONMENTAL FACTORS. <i>Acta Horticulturae</i> , 2000, , 249-252.	0.2	2
90	EFFECT OF FERTIGATION MANAGEMENT ON NUTRIENT SOLUTION CONSUMPTION AND YIELD IN A CLOSED AGROSYSTEM IN RELATION TO AN OPEN SYSTEM UNDER MEDITERRANEAN PLASTIC GREENHOUSE CONDITIONS. <i>Acta Horticulturae</i> , 2000, , 151-156.	0.2	2

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91	VEGETABLE SEEDLINGS GROWN IN A FLOAT SYSTEM. <i>Acta Horticulturae</i> , 2003, , 241-245.	0.2	2
92	APPLICATION OF INDOLE-3-BUTYRIC ACID BY FERTIGATION ON PEPPER PLANTS IN SOILLESS CULTURE GROWN IN A GREENHOUSE. <i>Acta Horticulturae</i> , 2005, , 475-479.	0.2	2
93	EMISSION OF POLLUTION TO THE ENVIRONMENT USING AS SUBSTRATES ALMOND SHELL AND ROCKWOOL IN SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2005, , 159-163.	0.2	2
94	EFFECT OF WETTING AGENT ON FERTIGATION PARAMETERS IN TOMATO ON NEW AND REUSED COCO FIBER. <i>Acta Horticulturae</i> , 2005, , 165-170.	0.2	2
95	Effect of ammonium nitrogen on pepper grown under soilless culture. <i>Journal of Plant Nutrition</i> , 2022, 45, 113-122.	1.9	2
96	IONIC VARIATIONS IN XYLEM STREAM OF TOMATO PLANTS IN RELATION TO TIME OF EXUDATION. <i>Acta Horticulturae</i> , 1995, , 425-433.	0.2	2
97	PRODUCTIVE BEHAVIOR OF LISIANTHUS (<i>Eustoma grandiflorum</i> [RAF.] SHINN) IN SOILLESS. <i>Revista Chapingo, Serie Horticultura</i> , 2013, XIX, 141-150.	0.4	2
98	SUBSTRATES FOR TOBACCO TRANSPLANTS PRODUCTION IN FLOAT SYSTEM. <i>Acta Horticulturae</i> , 2001, , 83-88.	0.2	1
99	EFFECT OF CULTURAL PRACTICES ON A SWEET PEPPER CROP IN A MILD WINTER CLIMATE. <i>Acta Horticulturae</i> , 2003, , 301-306.	0.2	1
100	EFFECT OF FORCED AERATION ON CERTAIN PARAMETERS OF CROP TOMATO BY SUBSTRATE CULTURE. <i>Acta Horticulturae</i> , 2004, , 679-683.	0.2	1
101	Nitrogen efficiency in hydroponic chicory. <i>Journal of Plant Nutrition</i> , 2017, 40, 2532-2539.	1.9	1
102	Design of a Modular Vegetative Unit and Fertigation Management for Noise-Abatement Walls in a Semiarid Climate. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2017, 143, 04016081.	1.0	1
103	Production and Quality of <i>Physalis ixocarpa</i> Brot. Fruit under Colored Shade Netting. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018, 53, 823-828.	1.0	1
104	ALMOND WASTE: A NEW ECOLOGY-FRIENDLY ALTERNATIVE SUBSTRATE IN TOMATO CULTURE. <i>Acta Horticulturae</i> , 2004, , 285-288.	0.2	1
105	Algorithm implementation in MATLAB for root measurement. <i>Computers and Electronics in Agriculture</i> , 2020, 174, 105487.	7.7	1
106	Total and soluble physiological ternary groups in deciduous fruit trees. <i>Communications in Soil Science and Plant Analysis</i> , 1994, 25, 1703-1712.	1.4	0
107	WATER CONSUMPTION AND YIELD FOR A REUSE DRAINAGE WATER SYSTEM IN MEDITERRANEAN PLASTIC HOUSE CONDITIONS. <i>Acta Horticulturae</i> , 1998, , 363-368.	0.2	0
108	YIELD AND QUALITY OF CHERRY TOMATO FRUITS IN A SOILLESS SYSTEM DURING TWO CROP SEASONS. <i>Acta Horticulturae</i> , 2000, , 385-388.	0.2	0

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109	TRANSPLANTS GROWN HYDROPONICALLY ARE AN ALTERNATIVE FOR SOIL. Acta Horticulturae, 2003, , 407-410.	0.2	0
110	MELON CROP RESPONSE TO DIFFERENT LEVELS OF CALCIUM IN THE NUTRIENT SOLUTION. Acta Horticulturae, 2005, , 487-492.	0.2	0
111	EFFECT OF WETTING AGENT ON FERTIGATION PARAMETERS AND POLLUTION IN MELON GROWING IN NEW AND REUSED COCO FIBER. Acta Horticulturae, 2007, , 227-231.	0.2	0
112	EFFECTS OF CLIMATIC VARIATION ON FERTIGATION OF SOILLESS CROP PRODUCTION IN A "PARRAL" PLASTIC-HOUSE. Acta Horticulturae, 2001, , 521-528.	0.2	0
113	EFFECT OF EVOLUTION IN THE INCREASE THE NUTRIENT SOLUTION E.C. ON QUALITY PARAMETERS OF TOMATO SEEDLINGS. Acta Horticulturae, 1999, , 213-218.	0.2	0
114	La importancia de la investigación y la transferencia tecnológica local. Idesia, 2014, 32, 3-4.	0.3	0
115	Silicon enhances production and quality of blueberry fruits (<i>Vaccinium corymbosum</i> L.). Journal of Plant Nutrition, 0, , 1-9.	1.9	0