

# Miguel Urrestarazu Gavilán

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Effect of ammonium nitrogen on pepper grown under soilless culture. <i>Journal of Plant Nutrition</i> , 2022, 45, 113-122.	1.9	2
2	Effects of Si in nutrient solution on leaf cuticles. <i>Scientia Horticulturae</i> , 2021, 278, 109863.	3.6	3
3	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
4	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
5	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
6	Microplastics and Their Effect in Horticultural Crops: Food Safety and Plant Stress. <i>Agronomy</i> , 2021, 11, 1528.	3.0	14
7	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
8	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
9	Î³-linolenic and Stearidonic Acids from Boraginaceae of Diverse Mediterranean Origin. <i>Chemistry and Biodiversity</i> , 2020, 17, e2000627.	2.1	3
10	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
11	Algorithm implementation in MATLAB for root measurement. <i>Computers and Electronics in Agriculture</i> , 2020, 174, 105487.	7.7	1
12	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
13	Borage oil: Tocopherols, sterols and squalene in farmed and endemic-wild <i>Borago</i> species. <i>Journal of Food Composition and Analysis</i> , 2019, 83, 103299.	3.9	20
14	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
15	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
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	Fatty acid profiles and sn -2 fatty acid distribution of Î³-linolenic acid-rich <i>Borago</i> species. <i>Journal of Food Composition and Analysis</i> , 2018, 66, 74-80.	3.9	21
18	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

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19	Vertical Greening Systems. , 2018, , 55-63.		5
20	Production and Quality of <i>Physalis ixocarpa</i> Brot. Fruit under Colored Shade Netting. Hortscience: A Publication of the American Society for Horticultural Science, 2018, 53, 823-828.	1.0	1
21	Rosemary growth and nutrient balance: Leachate fertigation with leachates versus conventional fertigation. Scientia Horticulturae, 2018, 242, 62-68.	3.6	6
22	LED-enhanced dietary and organoleptic qualities in postharvest tomato fruit. Postharvest Biology and Technology, 2018, 145, 151-156.	6.0	38
23	Nitrogen efficiency in hydroponic chicory. Journal of Plant Nutrition, 2017, 40, 2532-2539.	1.9	1
24	The Use of Thermography Images in the Description of the Humidification Bulb in Soilless Culture. Communications in Soil Science and Plant Analysis, 2017, 48, 1595-1602.	1.4	10
25	Agronomic and Economic Feasibility of Tomato and Lettuce Intercropping in a Soilless System as a Function of the Electrical Conductivity of the Nutrient Solution. Hortscience: A Publication of the American Society for Horticultural Science, 2017, 52, 1195-1200.	1.0	8
26	Increased Electrical Conductivity in Nutrient Solution Management Enhances Dietary and Organoleptic Qualities in Soilless Culture Tomato. Hortscience: A Publication of the American Society for Horticultural Science, 2017, 52, 868-872.	1.0	44
27	Vertical greenery systems for energy savings in buildings: A comparative study between green walls and green facades. Building and Environment, 2017, 111, 228-237.	6.9	252
28	Design of a Modular Vegetative Unit and Fertigation Management for Noise-Abatement Walls in a Semi-arid Climate. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, 04016081.	1.0	1
29	Sardinian Boraginaceae are new potential sources of gamma-linolenic acid. Food Chemistry, 2017, 218, 435-439.	8.2	20
30	Automatic Irrigation Control System for Soilless Culture Based on Feedback from Drainage Hydrograph. Applied Engineering in Agriculture, 2017, 33, 531-542.	0.7	7
31	Influence of drainage and nutrient-solution nitrogen and potassium concentrations on the agronomic behavior of bell-pepper plants cultivated in a substrate. PLoS ONE, 2017, 12, e0180529.	2.5	8
32	Influence of salinity on transport of Nitrates and Potassium by means of the xylem sap content between roots and shoots in young tomato plants. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	3.4	8
33	Acoustic insulation capacity of Vertical Greenery Systems for buildings. Applied Acoustics, 2016, 110, 218-226.	3.3	76
34	Acoustic evaluation of modular greenery noise barriers. Urban Forestry and Urban Greening, 2016, 20, 172-179.	5.3	37
35	Effect of nutrient solution salinity and ionic concentration on parsley ( <i>Petroselinum</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 11	1.9	12
36	Effect of the Spectral Quality and Intensity of Light-emitting Diodes on Several Horticultural Crops. Hortscience: A Publication of the American Society for Horticultural Science, 2016, 51, 268-271.	1.0	41

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37	New Adaptive Hybrid-Automatic Irrigation Control System for Soilless Culture. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, .	1.0	6
38	Effect of Particle Size and Reused Organic Substrates on Tomato Crop Production. Journal of Plant Nutrition, 2015, 38, 1877-1884.	1.9	3
39	Productivity under Shade and Different Nutrient Solution of Hydroponic Watercress ( <i>Nasturtium</i> ) Tj ETQq1 1 0.784314 rgBT <sub>3</sub> Overloc	1.9	3
40	Common Chicory Performance as Influenced by Iron Concentration in the Nutrient Solution. Journal of Plant Nutrition, 2015, 38, 1489-1494.	1.9	8
41	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
42	Evaluation of green walls as a passive acoustic insulation system for buildings. Applied Acoustics, 2015, 89, 46-56.	3.3	198
43	Development of a New Control Algorithm for Automatic Irrigation Scheduling in Soilless Culture. Applied Mathematics and Information Sciences, 2015, 9, 47-56.	0.5	13
44	Effects of Silicon in the Nutrient Solution for Three Horticultural Plant Families on the Vegetative Growth, Cuticle, and Protection Against <i>Botrytis cinerea</i> . Hortscience: A Publication of the American Society for Horticultural Science, 2015, 50, 1447-1452.	1.0	14
45	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
46	Effect of a Passive Mixing Device on the Electrical Conductivity and pH Values of a Nutrient Solution. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, 04013022.	1.0	4
47	Contribution of thermal imaging to fertigation in soilless culture. Journal of Thermal Analysis and Calorimetry, 2014, 116, 1033-1039.	3.6	5
48	Effect of controlling the leaching fraction on the fertigation and production of a tomato crop under soilless culture. Scientia Horticulturae, 2014, 179, 153-157.	3.6	25
49	EFFECTS OF SALINITY AND THE INTERACTION BETWEEN <i>THYMUS VULGARIS</i> AND <i>LAVANDULA ANGUSTIFOLIA</i> ON GROWTH, ETHYLENE PRODUCTION AND ESSENTIAL OIL CONTENTS. Journal of Plant Nutrition, 2014, 37, 875-888.	1.9	30
50	A New Local Sustainable Inorganic Material for Soilless Culture in Spain: Granulated Volcanic Rock. Hortscience: A Publication of the American Society for Horticultural Science, 2014, 49, 1537-1541.	1.0	11
51	Comparative Physiological Analysis of Salinity Effects in Six Olive Genotypes. Hortscience: A Publication of the American Society for Horticultural Science, 2014, 49, 901-904.	1.0	15
52	La importancia de la investigación y la transferencia tecnológica local. Idesia, 2014, 32, 3-4.	0.3	0
53	RESPONSE OF LIME THYME TO SALINITY AND IONIC CONCENTRATION IN NUTRIENT SOLUTION. Journal of Plant Nutrition, 2013, 36, 562-565.	1.9	4
54	Infrared thermography used to diagnose the effects of salinity in a soilless culture. Quantitative InfraRed Thermography Journal, 2013, 10, 1-8.	4.2	21

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55	STATE OF THE ART AND NEW TRENDS OF SOILLESS CULTURE IN SPAIN AND IN EMERGING COUNTRIES. Acta Horticulturae, 2013, , 305-312.	0.2	19
56	Thermography Study of Moderate Electrical Conductivity and Nutrient Solution Distribution System Effects on Grafted Tomato Soilless Culture. Hortscience: A Publication of the American Society for Horticultural Science, 2013, 48, 1508-1512.	1.0	13
57	PRODUCTIVE BEHAVIOR OF LISIANTHUS ( <i>Eustoma grandiflorum</i> [RAF.] SHINN) IN SOILLESS. Revista Chapingo, Serie Horticultura, 2013, XIX, 141-150.	0.4	2
58	MAGUEY BAGASSE WASTE AS SUSTAINABLE SUBSTRATE IN SOILLESS CULTURE BY MELON AND TOMATO CROP. Journal of Plant Nutrition, 2012, 35, 2135-2144.	1.9	8
59	Vegetable Waste Compost Used as Substrate in Soilless Culture. , 2012, , .		3
60	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
61	Use of Peroxyacetic Acid as Green Chemical on Yield and Sensorial Quality in Watercress ( <i>Nasturtium</i> ) Tj ETQq1 1 9463-9470.	0.784314 4.1	7
62	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. Hortscience: A Publication of the American Society for Horticultural Science, 2011, 46, 727-729.	1.0	8
63	Green Chemistry in Protected Horticulture: The Use of Peroxyacetic Acid as a Sustainable Strategy. International Journal of Molecular Sciences, 2010, 11, 1999-2009.	4.1	31
64	Effects of peracetic acid disinfectant on the postharvest of some fresh vegetables. Journal of Food Engineering, 2009, 95, 11-15.	5.2	73
65	The Effect of Amendment of Vegetable Waste Compost Used as Substrate in Soilless Culture on Yield and Quality of Melon Crops. Compost Science and Utilization, 2009, 17, 103-107.	1.2	9
66	Treatment with Peracetic Acid Extends the Vase Life of Lisianthus ( <i>Eustoma grandiflorum</i> ) Flowers. Hortscience: A Publication of the American Society for Horticultural Science, 2009, 44, 418-420.	1.0	9
67	Wetting agent effect on physical properties of new and reused rockwool and coconut coir waste. Scientia Horticulturae, 2008, 116, 104-108.	3.6	36
68	Effects of Heating Nutrient Solution on Water and Mineral Uptake and Early Yield of Two Cucurbits under Soilless Culture. Journal of Plant Nutrition, 2008, 31, 527-538.	1.9	25
69	Effect of Substrate Reutilization on Yield and Properties of Melon and Tomato Crops. Journal of Plant Nutrition, 2008, 31, 2031-2043.	1.9	34
70	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
71	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
72	CONTENIDO DE NITRATOS EN LECHUGAS CULTIVADAS EN SISTEMAS HIDROPÑNICOS. Idesia, 2006, 24, 25.	0.3	4

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73	GREENHOUSE MICROCLIMATE AND ITS NATURAL VARIATION IN TWO SUBTYPES OF AN ALMERÍA GREENHOUSE. <i>Acta Horticulturae</i> , 2006, , 147-156.	0.2	4
74	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
75	MELON CROP RESPONSE TO DIFFERENT LEVELS OF CALCIUM IN THE NUTRIENT SOLUTION. <i>Acta Horticulturae</i> , 2005, , 487-492.	0.2	0
76	WOOD FIBER AS GROWING MEDIUM IN HYDROPONIC CROP. <i>Acta Horticulturae</i> , 2005, , 179-185.	0.2	15
77	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
78	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
79	Vegetable Waste Compost as Substrate for Melon. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 1557-1572.	1.4	35
80	Almond shell waste: possible local rockwool substitute in soilless crop culture. <i>Scientia Horticulturae</i> , 2005, 103, 453-460.	3.6	65
81	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
82	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
83	EFFECT OF FORCED AERATION ON CERTAIN PARAMETERS OF CROP TOMATO BY SUBSTRATE CULTURE. <i>Acta Horticulturae</i> , 2004, , 679-683.	0.2	1
84	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
85	RESPONSE OF GREENHOUSE MELON AND TOMATO CROPS TO WASTEWATER FERTIRRIGATION. <i>Acta Horticulturae</i> , 2004, , 391-396.	0.2	4
86	ALMOND WASTE: A NEW ECOLOGY-FRIENDLY ALTERNATIVE SUBSTRATE IN TOMATO CULTURE. <i>Acta Horticulturae</i> , 2004, , 285-288.	0.2	1
87	TRANSPLANTS GROWN HYDROPONICALLY ARE AN ALTERNATIVE FOR SOIL. <i>Acta Horticulturae</i> , 2003, , 407-410.	0.2	0
88	CUCUMBER CROP RESPONSE TO HEATED NUTRIENT SOLUTION IN SOILLESS CROP. <i>Acta Horticulturae</i> , 2003, , 649-653.	0.2	3
89	EFFECT OF IBA APPLICATION BY FERTIGATION ON MELON IN SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2003, , 225-228.	0.2	3
90	MINERAL NUTRITION AND PRODUCTIVITY OF HYDROPONICALLY GROWN TOMATOES IN RELATION TO NUTRIENT SOLUTION RECYCLING. <i>Acta Horticulturae</i> , 2003, , 219-223.	0.2	6

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91	EFFECT OF CULTURAL PRACTICES ON A SWEET PEPPER CROP IN A MILD WINTER CLIMATE. <i>Acta Horticulturae</i> , 2003, , 301-306.	0.2	1
92	VEGETABLE SEEDLINGS GROWN IN A FLOAT SYSTEM. <i>Acta Horticulturae</i> , 2003, , 241-245.	0.2	2
93	METHODS OF CORRECTION OF VEGETABLE WASTE COMPOST USED AS SUBSTRATE BY SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2003, , 229-233.	0.2	5
94	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
95	SUBSTRATES FOR TOBACCO TRANSPLANTS PRODUCTION IN FLOAT SYSTEM. <i>Acta Horticulturae</i> , 2001, , 83-88.	0.2	1
96	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
97	EFFECTS OF CLIMATIC VARIATION ON FERTIGATION OF SOILLESS CROP PRODUCTION IN A "PARRAL" PLASTIC-HOUSE. <i>Acta Horticulturae</i> , 2001, , 521-528.	0.2	0
98	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
99	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
100	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
101	Modeling electrical conductivity management in a recirculating nutrient solution under semi-arid conditions. <i>Journal of Plant Nutrition</i> , 2000, 23, 457-468.	1.9	13
102	EFFECT OF EVOLUTION IN THE INCREASE THE NUTRIENT SOLUTION E.C. ON QUALITY PARAMETERS OF TOMATO SEEDLINGS. <i>Acta Horticulturae</i> , 1999, , 213-218.	0.2	0
103	Nitrate accumulation reduction using chloride in the nutrient solution on lettuce growing by NFT in semi-arid climate conditions. <i>Journal of Plant Nutrition</i> , 1998, 21, 1705-1714.	1.9	24
104	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
105	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
106	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
107	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
108	IONIC VARIATIONS IN XYLEM STREAM OF TOMATO PLANTS IN RELATION TO TIME OF EXUDATION. <i>Acta Horticulturae</i> , 1995, , 425-433.	0.2	2

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109	Total and soluble physiological ternary groups in deciduous fruit trees. Communications in Soil Science and Plant Analysis, 1994, 25, 1703-1712.	1.4	0
110	Iron indices and micronutrients in deciduous fruit trees. Communications in Soil Science and Plant Analysis, 1994, 25, 1685-1701.	1.4	5
111	Xylem sap extraction: A method. Communications in Soil Science and Plant Analysis, 1994, 25, 1829-1839.	1.4	11
112	Iron index in horticultural crops. , 1991, , 357-361.		7
113	Active and total Fe in castanea sativa and their relation to other nutrients. Journal of Plant Nutrition, 1986, 9, 909-921.	1.9	21
114	Index and equilibrium of Fe in plants of Juglans RegiaL.. Journal of Plant Nutrition, 1984, 7, 117-124.	1.9	6
115	Silicon enhances production and quality of blueberry fruits (<i>Vaccinium corymbosum</i> L.). Journal of Plant Nutrition, 0, , 1-9.	1.9	0