**Dimitrios Savvas**

Professor

Dean of the Faculty of Plant Sciencres

Director of the Laboratory of Vegetable Crops

Department of Crop Science

Agricultural University of Athens

Iera Odos 75, 11855 Athens, Greece

Tel: +30 210 529 4510

FAX +30 210 529 4504

E-mail: dsavvas@aua.gr

**CURRICULUM VITAE**

Last updated: 4 January 2020

04/24/1961: Born in Ioannina, Greece

1967-1973: Primary school in Megalo Peristeri, Ioannina

1973-1976: Gymnasium in Ioannina

1976-1979: Lyceum (High School) in Ioannina

1979-1985: Agricultural University of Athens

07/1984-08/1984: Practical work at the Institute for Subtropical Plants and Olive Trees in Chania, Greece.

07/1985-10/1985: Practical work at the Agricultural Research Station of Ioannina.

12/11/1985: Diploma in Agriculture

04/21/1987-08/03/1988: Working in the Agricultural Insurance Organization of Greece as an Agronomist.

10/01/1988-07/22/1992: Research Fellow at the Institute for Fruit and Vegetable Production of the University of Bonn, Germany.

06/12/1992 Ph.D. degree from the University of Bonn

01/01/93-12/30/95 Soilless culture expert in the company “Anthokipeftiki Argiraki”, Athens, Greece.

02/23/93-6/30/93 Assistant Professor at T.E.I. of Messolonghi.

09/20/93-02/08/96 Assistant Professor at T.E.I. of Kalamata

02/09/96 – 05/18/1999 Assistant Professor at T.E.I. of Epirus

05/19/1999-10/04/2004 Associate Professor at T.E.I. of Epirus

10/04/2004-06/05/2006 Professor at T.E.I. of Epirus

09/01/97-08/31/2003 Head of the Department of Floriculture and Landscape Architecture at T.E.I. of Epirus, Faculty of Agricultural Technology.

09/01/2003-06/05/2006 Director of the Faculty of Agricultural Technology at TEI of Epirus

06/05/2006-02/06/2011 Assistant Professor at the Agricultural University of Athens, Laboratory of Vegetable Crops

02/06/2011-09/30/2015 Associate Professor at the Agricultural University of Athens, Laboratory of Vegetable Crops

11/05/2012: Election as an internal member in the Council of the Agricultural University of Athens.

10/01/2015 onwards Professor at the Agricultural University of Athens, Laboratory of Vegetable Crops

Acad. Year 2015-2016: Director of the Sector “Vegetable Crops, Floriculture and Landscape Architecture”

**PARTICIPATION IN EDITORIAL BOARDS OF SCIENTIFIC JOURNALS**

* 1. *Environmental and Experimental Botany* (I.F. for 2017-2018: **3.666**)
	2. *Scientia Horticulturae* (I.F. for 2017-2018: **1.760**)
	3. *Agricultural Water Management* (I.F. for 2017-2018: **3.182**)
	4. *European Journal of Horticultural Science* (I.F. for 2017-2018: **0.590**)

**PARTICIPATION IN SCIENTIFIC COMMITTEES AND EDITORIAL BOARDS OF INTERNATIONAL SCIENTIFIC SYMPOSIA**

1. “ISHS International Symposium on Managing Greenhouse Crops in Saline Environment», Pisa, Italy, 9-12 July 2003 (Acta Horticulturae, 609).
2. ISHS International Symposium on Growing Media. Nottingham, U.K., 2-8 September 2007 (Acta Horticulturae 819).
3. ISHS International Symposium on Strategies towards Sustainability of Protected Cultivation in Mild Winter Climate" (Antalya, Turkey, 6 – 11 April 2008).
4. ISHS International Symposium on Greenhouse systems: GREENSYS2011. Chalkidiki, Greece, 6-10 June 2011.
5. ISHS 5th Balkan Symposium on Vegetables and Potatoes. Tirana, Albania, 9-13 October 2011.
6. ISHS GroSci 2013: International Symposium on Growing Media and Soilless Cultivation, Leiden, The Netherlands, 17-21 June 2013.
7. ISHS-IHC-2014. World Congress on Horticultural Science 2014. International Symposium on Innovation and New Technologies in Protected Cropping. Brisbane, Australia, 18-22 August 2014.
8. ISHS 6th Balkan Symposium on Vegetables and Potatoes. Zagreb, Croatia, 29 Σεπτεμβρίου - 2 Οκτωβρίου 2014.

**Recent research projects**

1. Project leader in a Research Project of the action ARCHIMEDES, which was co-funded by the EU and the Greek Ministry of Education and Religions titled: «Development of domestic know-how and technology for the cultivation of greenhouse crops in closed hydroponic systems aimed at preventing nitrate pollution and use of chemical soil fumigants”. Duration of the project: 01/01/2003 to 12/31/2006.

2. Member of the research team in an INTERREG IIIA GREECE-ITALY research project titled: “Development and promotion for organic farming producing systems - Pro.Bio.Sis.” (I2101029), which was implemented by the Faculty of Agricultural Technology of TEI of Epirus. Duration of the project: 01/01/2006 to 12/31/2008.

3. Member of the research team in an INTERREG IIIA GREECE-ITALY research project titled: «*Posidonia oceanica*: Protection and regeneration of fields and use of residuals in Agriculture (POPRURA)” (I3101017, Category: D2) which was implemented by the Faculty of Agricultural Technology of TEI of Epirus. Duration of the project: 01/01/2006 to 12/31/2008.

4. Project leader in a Project Based Personnel Exchange Programme with Germany (IKYDA 2007). Title of the project: «Improving salinity tolerance and fruit quality of vegetable products by grafting». Collaborating institution: «Institute for Vegetable and Ornamental Crops, Großbeeren, Germany». Source of funds: State Scholarships Foundation of Greece. Duration of the project: 01/01/2007 to 12/31/2008.

5. Member of the research team in a Research and Dissemination of Technology Project sponsored by the General Secretariat of Research & Technology of Greece. Title of the project: «New Technologies for More Environment-friendly Greenhouses». Collaborating institutions: a) University of Thessaly, Laboratory of Agricultural Engineering and Environmental Control, b) Plastika Kritis s.a., c) AGREK Samantouros S.A. Duration of the project: 10/01/2007 to 31/10/2008.

6. Member of the research team of GEOMATIONS, leaded by Prof. Sigrimis, in an FP.7 RTD project. Project acronym: FLOW-AID. Project full title: “Farm level optimal water management: Assistant for irrigation under deficit”. Grant agreement no. 036958 GOCE. Duration of the project: 10/01/2006 to 09/30/2009.

7. Coordinator of the research team of the Agricultural University of Athens in an FP.7 RTD project. Project acronym: LEGUME FUTURES. Project full title: Legume-supported cropping systems for Europe. Grant agreement no. 245216 CP-FP. Duration of the project: 03/01/2010 to 02/28/2014.

8. External researcher in the research team of the project “Improvement of stress tolerance using rootstocks” (“Erhöhung von Stresstoleranz durch den Einsatz von Unterlagen”) which is funded from the German Federal Ministry of Food, Agriculture, and Consumer Protection and implemented by «Leibniz-Institute for Vegetable and Ornamental Crops Großbeeren und Erfurt». Co-ordinator: Dr. Dietmar Schwarz. Duration of the project: 01/01/2010 – 12/31/2012.

9. Member of the research team in the European research project (FP.7) titled: ‘Sustainable use of irrigation water in the Mediterranean Region’. Project acronym: SIRRIMED. Grant agreement no: 245159. Duration of the project: 09/01/2010 to 08/31/2014. Co-ordinator of the Greek research team: Prof. C. Kittas, University of Thessaly.

1. Coordinator of a research project titled: “Establishment of good agricultural practices for vegetable production in pumice and their dissemination in commercial practice”, which was sponsored by the private company LAVA S.A. Duration: 11/01/2010 – 12/31/2012.
2. Coordinator of the team of the Agricultural University of Athens in a LEONARDO Project titled: “AGRICOM “ Transfer of the Water Competences Model to AGRIcultural COMpetences” within the framework of the Programme «Lifelong Learning Programme Leonardo da Vinci - Transfer of Innovation – Call 2011». Duration: 10/01/2011 to 09/30/2013.
3. Coordinator of the team of the Agricultural University of Athens in a LEONARDO Project titled: “GreeNET: Environmental Education through Enquiry and Technology” within the framework of the Programme «Lifelong Learning Programme Leonardo da Vinci - Transfer of Innovation – Call 2012». Duration: 11/01/2012 to 10/31/2015.
4. Member of the research team in a research project of the action ARCHIMEDES titled: «Effects of mycorhizal and other symbiotic microorganisms on plants cultivated in soil and soilles culture systems under biotic and abiotic stress conditions», which was co-funded by the EU and the Greek Ministry of Education and Religion and co-ordinated by the Department of Floriculture and Landscape Architecture (scientific responsible: Assoc. Professor G. Patakioutas). Duration: 04/01/2012 to 03/31/2015.
5. Member of the research team in a research project of the action ARCHIMEDES titled: «Evaluation of the effects of planting on buildings and development of innovative relevant hydroponic structures (Hydroponic Structures on Buildings – HsoB”, which was co-funded by the EU and the Greek Ministry of Education and Religion and co-ordinated by the Department of Floriculture and Landscape Architecture (scientific responsible: Dr. G. Varras). Duration: 04/01/2012 to 03/31/2015.
6. Member of the research team in an INTERREG IIIA GREECE-ITALY research project titled: «IRMA – Efficient Irrigation Management Tools for Agricultural Cultivations and Urban Landscapes» which is implemented by the Faculty of Agricultural Technology of TEI of Epirus under the supervision of Professor Dr. Ioannis Tsirogiannis. Duration of the contract: 04/11/2014 – 3/31/2015.
7. Coordinator of the research team of the Agricultural University of Athens in the FP7 RTD project EUROLEGUME, titled: «Enhancing of legumes growing in Europe through sustainable cropping for protein supply for food and feed» (Grant agreement no.: 613781). Duration of the project: 4 years starting from 01/01/2014.
8. Country representative for Greece in the Management Committee of the COST FA1204, titled: «Vegetable Grafting to Improve Yield and Fruit Quality under Biotic and Abiotic Stress Conditions» and Coordinator of STSM (Short-Term Scientific Missions) in this Action (<http://www.vegetablegrafting.unitus.it>). Duration of the contract: 10/01/2012 to 09/30/2016.
9. Member of the research team in a research project titled: «Transnational Network for SME Support in the Animal Breeding and Horticultural Sector – AGRO-START” which is implemented by the Institute for Research and Technology - Thessaly (IRETETH), of the Centre for Research and Technology – Hellas (CERTH). Duration of the contract: 05/05/2014 έως 11/28/2014.
10. Coordinator of the research team of the Agricultural University of Athens in the HORIZON2020 RTD project “TRUE: Transition paths to sustainable legume based systems in Europe”. Duration of the project: 4 years starting on 04/01/2017.
11. Coordinator of the research team of the Agricultural University of Athens in the HORIZON2020 RTD project “TOMRES: A novel and integrated approach to increase multiple and combined stress tolerance in plants using tomato as a model”. Duration of the project: 3.5 years starting on 06/01/2017.

**List of Publications**

**I. Ph.D. Thesis**

1. Savvas, D., 1992. Vegetatives und generatives Wachstum bei Auberginen (*Solanum melongena L.*) in Hydrokultur in Abhängigkeit von der elektrischen Leitfähigkeit der Nährlösung. Thesis. University of Bonn, Germany.

**II. Publications in international refereed journals with impact factor**

1. Savvas, D. und F. Lenz, 1994. Influence of salinity on the incidence of the physiological disorder "internal fruit rot" in hydroponically grown eggplants. Angewandte Botanik (Journal of Applied Botany), 68: 32-35.

2. Savvas, D. und F. Lenz, 1994. Einfluss einer NaCl-Salzbelastung auf das vegetative und generative Wachstum von Aubergine (*Solanum melongena* L.) in Hydro­kultur. Gartenbauwissenschaft (European Journal of Horticultural Science), 59: 172-177.

3. Savvas, D. und F. Lenz, 1995. Nährstoffaufnahme von Aubergine (*Solanum melongena* L.) in Hydrokultur. Gartenbauwissenschaft (European Journal of Horticultural Science) 60: 29-33.

4. Savvas, D. and F. Lenz, 1996. Influence of NaCl salinity on the mineral composition of eggplants in sand culture. Angewandte Botanik (Journal of Applied Botany) 70: 124-127.

1. Savvas, D. and G. Manos, 1999. Automated composition control of nutrient solution in soilless culture systems. Journal of Agricultural Engineering Research, 73: 29-33.
2. Savvas, D. and K. Adamidis, 1999. Automated management of nutrient solutions based on target electrical conductivity, pH, and nutrient concentration ratios. Journal of Plant Nutrition 22, 1415-1432.
3. Savvas, D. and F. Lenz, 2000. Effects of NaCl or nutrient-induced salinity on growth, yield, and composition of eggplants grown in rockwool. Scientia Horticulturae 84: 37-47.
4. Savvas, D. and F. Lenz, 2000. Response of eggplants grown in recirculating nutrient solution to salinity exerted prior to the start of harvesting. Journal of Horticultural Science and Biotechnology, 75: 262-267.
5. Mavrogianopoulos, G., D. Savvas and V. Vogli, 2002. Influence of NaCl-salinity imposed to half of the root system of hydroponically grown tomato on growth, yield, and tissue mineral composition. Journal of Horticultural Science & Biotechnology, 77: 557-564.
6. Savvas, D., 2002. Automated replenishment of recycled greenhouse effluents with individual nutrients in hydroponics by means of two alternative models. Biosystems Engineering, 83: 225-236.
7. Savvas, D. and G. Gizas, 2002. Response of hydroponically grown gerbera to nutrient solution recycling and different nutrient cation ratios. Scientia Horticulturae, 96: 267-280.
8. Savvas, D., G. Manos, A. Kotsiras, and S. Souvaliotis, 2002. Effects of silicon and nutrient-induced salinity on yield, flower quality, and nutrient uptake of gerbera grown in a closed hydroponic system. Journal of Applied Botany, 76: 153-158.
9. Savvas, D., V. Karagianni, A. Kotsiras, V. Demopoulos, I. Karkamisi and P. Pakou, 2003. Interactions between ammonium and pH of the nutrient solution supplied to gerbera (*Gerbera jamesonii*) grown in soilless culture. Plant and Soil, 254: 393-402.
10. Akl, I.A., D. Savvas, N. Papadantonakis, N. Lydakis-Simantiris, P. Kefalas, 2003. Influence of ammonium to total nitrogen supply ratio on growth, yield and fruit quality of tomato grown in a closed hydroponic system. European Journal of Horticultural Science, 68: 204-211.
11. Karras, G., D. Savvas, G. Patakioutas, P. Pomonis, T. Albanis, 2005. Fate of metalaxyl applied in nutrient solution to gerbera (*Gerbera jamesonii*) grown in a closed hydroponic system. Journal of Horticultural Science & Biotechnology, 80: 111-115.
12. Lykoskoufis, I.H., D. Savvas, G. Mavrogianopoulos, 2005. Growth, gas exchange, and nutrient status in pepper (*Capsicum annum* L.) grown in recirculating nutrient solution as affected by salinity imposed to half of the root system. Scientia Horticulturae, 106: 147-161.
13. Savvas, D., A. Kotsiras, G. Meletiou, S. Margariti, I. Tsirogiannis, 2005. Modeling the relationship between water uptake by cucumber and NaCl accumulation in a closed hydroponic system. HortScience, 40: 802-807.
14. Savvas, D., V.A. Pappa, A. Kotsiras, G. Gizas,2005. NaCl accumulation in a cucumber crop grown in a completely closed hydroponic system as influenced by NaCl concentration in irrigation water. European J. Hort. Sci. 70: 217-223.
15. Tas, G., Papadandonakis, N., and Savvas, D., 2005. Responses of lettuce (Lactuca sativa L. var. longifolia) grown in a closed hydroponic system to NaCl-, or CaCl2-salinity. J. Applied Botany & Food Quality, 79: 136-140.
16. Trajkova, F., N. Papadandonakis, and D. Savvas, 2006. Comparative effects of NaCl- and CaCl2-salinity on cucumber (*Cucumis sativus* L.) grown in a closed hydroponic system. HortScience 41: 437-441.
17. Savvas, D., Nasi, E., Moustaka, E., Mantzos, N., Barouchas, P., Passam, H.C., Olympios, C., 2006. Effects of ammonium nitrogen on lettuce grown on pumice in a closed hydroponic system. HortScience 41: 1667-1673.
18. Karipidis, C., Olympios, C., Passam, H.C., Savvas, D., 2007. Effect of moisture content of tomato pollen stored cryogenically on in vitro germination, fecundity and respiration during tuber growth. Journal of Horticultural Science & Biotechnology 82: 29-34.
19. Savvas, D., Mantzos, N., Barouchas, P., Tsirogiannis, I., Olympios, C., Passam, H.C., 2007. Modelling Salt Accumulation by a Bean Crop Grown in a Closed Hydroponic System in Relation to Water Uptake. Scientia Horticulturae 111, 311-318.
20. Karras, G., Savvas, D., Patakioutas, G., Pomonis, G., Albanis, T., and Pomonis, P., 2007. Modeling the Transport of Metalaxyl in Gerbera Plants Grown in a Closed-loop Hydroponic System. Biosystems Engineering 96, 279-292.
21. Karras, G., D. Savvas, G. Patakioutas, P. Pomonis, T. Albanis, 2007. Fate of cyromazine applied via the nutrient solution in a gerbera (*Gerbera jamesonii*) crop grown in a closed hydroponic system. Crop Protection 26, 721-728.
22. Savvas, D., Gizas, G., Karras, G., Lydakis-Simantiris, N., Salahas, G., Papadimitriou, M., Tsouka, N., 2007. Interactions between silicon and NaCl-salinity in a soilless culture of roses in greenhouse. European Journal of Horticultural Science 72, 73-79.
23. Savvas, D., Stamati, E., Tsirogiannis, I.L., Mantzos, N., Barouchas, P.E., Kittas, K., Katsoulas, N., 2007. Interactions between salinity and irrigation frequency in greenhouse pepper grown in a closed-loop hydroponic system. Agricultural Water Management 91, 102-111.
24. Gizas, G., Savvas, D., 2007. Particle size and hydraulic properties of pumice affect growth and yield of greenhouse crops in soilless culture. HortScience 42, 1274-1280.
25. Katsoulas, N, Kittas, C, Tsirogiannis, I.L., Kitta, E., Savvas, D., 2007. Greenhouse microclimate and soilless pepper crop production and quality as affected by a fog evaporative cooling system. Transactions of the American Society of Agricultural and Biological Engineers 50, 1831-1840.
26. Patakioutas, G., Savvas, D., Matakoulis, C., Sakellarides, T., Albanis, T., 2007. Fate of cyromazine and its metabolite melamine applied via nutrient solution to a closed-cycle cultivation of bean (*Phaseolus vulgaris* L.). Journal of Agricultural & Food Chemistry, 55, 9928-9935.
27. Savvas, D., Chatzieustratiou, E., Pervolaraki, G., Gizas, G., Sigrimis, N., 2008. Modelling Na and Cl concentrations in the recycling nutrient solution of a closed-cycle pepper cultivation. Biosystems Engineering 99, 282-291.
28. Savvas, D., Giotis, D., Chatzieustratiou, E., Bakea, M., Patakioutas, G., 2008. Silicon supply in soilless cultivations of zucchini alleviates stress induced by salinity and powdery mildew infections. Environmental and Experimental Botany 65, 11-17.
29. Savvas, D. Karapanos, I., Tagaris, A., Passam, H.C., 2009. Effects of NaCl and silicon on the quality and storage ability of zucchini squash fruit. Journal of Horticultural Science & Biotechnology 84, 381-386.
30. Katsoulas, N., Savvas, D., Tsirogiannis, I., Merkouris, O., Kittas, C., 2009. Response of an eggplant crop grown under Mediterranean summer conditions to greenhouse cooling. Scientia Horticulturae 123, 90–98.
31. Savvas, D., Papastavrou, D., Ntatsi, G., Ropokis, A., Olympios, C., Hartman, H., Schwarz, D., 2009. Interactive effects of grafting and Mn-supply on growth, yield and nutrient uptake by tomato. HortScience 44, 1978-1982.
32. Varlagas, H, Savvas, D., Mouzakis, G., Liotsos, C., Karapanos, I., Sigrimis, N., 2010. Modelling uptake of Na+ and Cl- by tomato in closed-cycle cultivation systems as influenced by irrigation water salinity. *Agricultural Water Management* 97, 1242–1250.
33. Savvas, D., Leneti, E., Mantzos, N., Kakarantza, L., Barouchas, P., 2010. Effects of enhanced NH4+-N supply and concomitant changes in the concentrations of other nutrients needed for ion balance on the growth, yield, and nutrient status of eggplants grown on rockwool. *Journal of Horticultural Science & Biotechnology* 85, 355–361.
34. Liopa-Tsakalidi, A., Savvas, D., Beligiannis, G.N., 2010. Modelling the Richards function using Evolutionary Algorithms on the effect of electrical conductivity of nutrient solution on zucchini growth in hydroponic culture. *Simulation Modelling Practice and Theory* 18, 1266-1273.
35. Savvas, D., Colla, G., Rouphael, Y., Schwarz, D., 2010. Amelioration of nutrient and heavy metal stress in fruit vegetables by grafting. *Scientia Horticulturae* 127, 156-161.
36. Savvas, D., Savva, A., Ntatsi, G., Ropokis, A., Karapanos, I., Krumbein, A., Olympios, C., 2011. Effects of three commercial rootstocks on mineral nutrition, fruit yield and quality in salinised tomatoes. Journal of Plant Nutrition and Soil Science 174, 154–162.
37. Al Naddaf, O., Livieratos, I., Stamatakis, A., Tsirogiannis, I., Gizas, G., Savvas, D., 2011. Hydraulic characteristics of composted pig manure, perlite, and mixtures of them, and their impact on cucumber grown on bags. Scientia Horticulturae 129, 135–141.
38. Salahas, G., Papasavvas, A., Giannakopoulos, A., Tselios, T., Konstantopoulou, H., Savvas, D., 2011. Impact of nitrogen deficiency on biomass production, leaf gas exchange, and total phenol and betacyanin concentrations in red beet (*Beta vulgaris* L. ssp*. vulgaris*) plants. European Journal of Horticultural Science 76, 194–200.
39. Tzerakis, K., Savvas, D., Sigrimis, N., 2012. Responses of cucumber grown in recirculating nutrient solution to gradual Mn and Zn accumulation in the root zone owing to excessive supply via the irrigation water. Journal of Plant Nutrition and Soil Science 175, 125–134.
40. Kitta, E., Katsoulas, N., Savvas, D., 2012. Shading effects on greenhouse microclimate and gas exchange in a cucumber crop grown under Mediterranean conditions. Applied Engineering in Agriculture 28, 129-140.
41. Gizas, G., Tsirogiannis, I., Bakea, M., Mantzos, N., Savvas, D., 2012. Impact of hydraulic characteristics of raw or composted *Posidonia* residues, coir, and their mixtures with pumice on root aeration, water availability and yield in a lettuce crop. HortScience 47, 896–901.
42. Ntatsi, G., Savvas, D., Druege, U., Schwarz, D., 2013. Contribution of phytohormones in alleviating the impact of sub-optimal temperature stress on grafted tomato. *Scientia Horticulturae* 149, 28–38.
43. Savvas, D., Ntatsi, G., Barouchas, P., 2013. Impact of Cd and Ni on cation uptake by cucumber grafted onto four commercial rootstocks *Scientia Horticulturae* 149, 86–96.
44. Tzerakis, C., Savvas, D., Sigrimis, N. Mavrogiannopoulos, G., 2013. Uptake of Mn and Zn by cucumber grown in closed hydroponic systems as influenced by the Mn and Zn concentrations in the supplied nutrient solution. *HortScience* 48, 373–379.
45. Neocleous, D., Savvas, D., 2013. Responses of hydroponically-grown strawberry to different K:Ca:Mg ratios in the supplied nutrient solution. *Journal of Horticultural Science & Biotechnology* 88, 293–300.
46. Neocleous, D., Savvas, D., 2013. Assessment of different strategies to balance high Mg levels in the irrigation water when preparing nutrient solution for soilless strawberry crops. *European Journal of Horticultural Science* 78, 267-274.
47. Tsirogiannis, I., Katsoulas, N., Savvas, D., Kittas, C., 2013. Relationships between reflectance and water status in a greenhouse rocket (*Eruca Sativa* Mill.) cultivation. *European Journal of Horticultural Science* 78, 275-282.
48. Ntatsi, G., Savvas, D., Huntenburg, D., Druege, U., Hincha, D.K., Zuther, E., Schwarz, D., 2014. A study on ABA involvement in the response of tomato to suboptimal root temperature using reciprocal grafts with notabilis, a null mutant in the ABA-biosynthesis gene LeNCED1. *Environmental & Experimental Botany* 97, 11–21.
49. Ntatsi, G., Savvas, D., Kläring, H.P., Schwarz, D., 2014. Growth, yield, and metabolic responses of temperature-stressed tomato to grafting onto rootstocks differing in cold tolerance. *Journal of the American Society for Horticultural Science* 139, 230–243.
50. Kontopoulou, C.K., Bilalis, D., Pappa, V.A., Rees, R.M., Savvas, D., 2015. Impact of organic farming practices and salinity on yield and greenhouse gas emissions from a common bean crop grown in a Mediterranean environment. *Scientia Horticulturae* 183, 48-57.
51. Katsoulas, N., Savvas, D., Bartzanas, T., Kittas, C., 2015. Model-based control of water and nutrient discharge in a tomato crop grown in a semi-closed soilless system as influenced by the drainage fraction. *Computers & Electronics in Agriculture* 113, 61-71.
52. Neocleous, D., Savvas, D., 2015. Impact of different nutrient macrocation ratios on macronutrient uptake by melon (*Cucumis melo* L.) grown in recirculating nutrient solution. *Journal of Plant Nutrition and Soil Science* 178, 320–332.
53. Kontopoulou, C.K., Giagkou, S., Stathi, E., Iannetta, P.M., Savvas, D., 2015. Responses of hydroponically-grown common bean fed with N-free nutrient solution to root inoculation with N2-fixing bacteria. *HortScience* 50, 597–602.
54. Salachas, G., Savvas, D., Argyropoulou, K., Tarantillis, P.A., Kapotis, G., 2015. Yield and nutritional quality of aeroponically cultivated basil as affected by the available root-zone volume. *Emirates Journal of Food and Agriculture* 27, 911-918.
55. Savvas, D., Ntatsi, G., 2015. Biostimulant activity of silicon in horticulture. *Scientia Horticulturae* 196, 66–81.
56. Neocleous, D., Savvas, D., 2016. NaCl accumulation and macronutrient uptake by a melon crop in a closed hydroponic system in relation to water uptake. *Agricultural Water Management* 165, 22–32.
57. Karkanis, A., Ntatsi, G., Kontopoulou, C.K., Pristeri, A., Bilalis, D., Savvas, D., 2016. Field pea in European cropping systems: adaptability, biological nitrogen fixation and cultivation practices. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 44, 325-336.
58. Lazaridi, E., Ntatsi, G., Savvas, D., Bebeli, P.J. 2017. Diversity in cowpea (*Vigna unguiculata* (L.) Walp.) local populations from Greece. *Genetic Resources and Crop Evolution* 64, 1529–1551.
59. Savvas, D., Öztekin, G.B., Tepecik, M., Ropokis A., Tüzel, Y., Ntatsi, G., Schwarz, D., 2017. Impact of grafting and rootstock on nutrient to water uptake ratios during the first month after planting of hydroponically grown tomato. *The Journal of Horticultural Science and Biotechnology* 92, 294–302.
60. Tampakaki, A., Fotiadis, C., Ntatsi, G., Savvas, D. 2017. Phylogenetic multilocus sequence analysis of indigenous slow-growing rhizobia nodulating cowpea (*Vigna unguiculata L*.) in Greece. *Systematic and Applied Microbiology* 40, 179-189.
61. Kontopoulou, C.K., Liasis, E., Iannetta, P.M., Savvas, D., 2017. Impact of rhizobial inoculation and reduced N supply on biomass production and biological N2-fixation in common bean (*Phaseolus vulgaris* L.) grown hydroponically. *Journal of the Science of Food and Agriculture* 97, 4353–4361.
62. Lazaridi, E., Ntatsi, G., Fernández J.A., Karapanos, I., Carnide, V.P., Savvas, D., Bebeli, P.J., 2017. Phenotypic diversity and evaluation of fresh pods of cowpea landraces from Southern Europe. *Journal of the Science of Food and Agriculture* 97, 4326–4333.
63. Tampakaki, A., Fotiadis, C., Ntatsi, G., Savvas, D. 2017. A novel symbiovar (aegeanense) of the genius *Ensifer* nodulates *Vigna unguinculata*. *Journal of the Science of Food and Agriculture* 97, 4314–4325.
64. Carvalho, M., Bebeli, P., Pereira, G., Castro, I., Egea-Gilabert, C., Matos, M., Lazaridi, E., Duarte, I., Lino-Neto, T., Ntatsi, G., Rodrigues, M., Savvas, D., Rosa, E., Carnide, V., 2017. European cowpea landraces for a more sustainable agriculture system and novel foods. *Journal of the Science of Food and Agriculture* 97, 4399-4407.
65. Neocleous, D., Savvas, D., 2017. Simulating NaCl accumulation in a closed hydroponic crop of zucchini: Impact on macronutrient uptake, growth, yield, and photosynthesis. *Journal of Plant Nutrition and Soil Science* 180, 283–293.
66. Karapanos, I., Papandreou, A., Skouloudi, M., Makrogianni, D., Fernandez, J., da Graça Mendonça Pereira, M., Ntatsi, G., Bebeli, P.J, Savvas, D. 2017. Cowpea fresh pods – a new legume for the market: assessment of their quality and dietary characteristics of 37 cowpea accessions grown in southern Europe. *Journal of the Science of Food and Agriculture* 97, 4343-4352.
67. Ntatsi, G., Savvas, D., Papasotiropoulos, V., Katsileros, A., Zuther, E., Hincha, D.K., Schwarz, D., 2017. Rootstock sub-optimal temperature tolerance determines transcriptomic responses after long-term root cooling in rootstocks and scions of grafted tomato plants. *Frontiers in Plant Science*. doi.org/10.3389/fpls.2017.00911.
68. Neocleous, D., Ntatsi, G., Savvas, D., 2017. Physiological, nutritional and growth responses of melon (*Cucumis melo* L.) to a gradual salinity builtup in recirculating nutrient solution. *Journal of Plant Nutrition* 40, 2168-2180.
69. Ntatsi, G., Aliferis, K.A., Rouphael, Y., Napolitano, F., Makris, K., Kalala, G., Katopodis, G., Savvas, D., 2017. Salinity source alters mineral composition and metabolism of *Cichorium spinosum*. *Environ. Exp. Bot*. 141, 113-123.
70. Vasdekis, E.P., Karkabounas, A., Giannakopoulos, I., Savvas, D., Lekka, M.E., 2017. Screening of mushrooms bioactivity: piceatannol was identified as a bioactive ingredient in the order Cantharellales. *European Food Research and Technology.* doi.org/10.1007/s00217-017-3007-y.
71. Ntatsi, G., Gutiérrez-Cortines, M.E., Karapanos, I., Barros, A., Weiss, J., Balliu, A., Rosa, E.A., Savvas, D., 2018. The quality of leguminous vegetables as influenced by preharvest factors. *Scientia Horticulturae* 232, 191-205.
72. Chatzigianni, M., Alkhaled, B., Livieratos, I., Stamatakis, A., Ntatsi, G., Savvas, D., 2018. Impact of nitrogen source and supply level on growth, yield and nutritional value of two contrasting ecotypes of *Cichorium spinosum* L. grown hydroponically. *Journal of the Science of Food and Agriculture* 98, 1615-1624.
73. Ntatsi, G., Karkanis, A., Yfantopoulos, D., Olle, M., Travlos, E., Thanopoulos, R., Bilalis, D., Bebeli, P., Savvas, D., 2018. Impact of variety and farming practices on growth, yield, weed flora and symbiotic nitrogen fixation in faba bean cultivated for fresh seed production. *Acta Agriculturae Scandinavica, Section B: Soil & Plant Science* 68, 619–630.
74. Neocleous, D., Savvas, D., 2018. Modelling Ca2+ accumulation in soilless zucchini crops: Physiological and agronomical responses. *Agricultural Water Management* 203, 197-206.
75. Karkanis, A., Ntatsi, G., Lepse, L., Fernández, J.A., Vågen, I., Rewald, B., Alsiņa, I., Kronberga, A., Balliu, A., Olle, M., Bodner, G., Dubova, L., Rosa, E., 2018. Faba bean cultivation - Revealing novel managing practices for more sustainable and competitive European cropping systems. *Frontiers in Plant Science*. 9, 1115.
76. Ropokis, A., Ntatsi, G., Kittas, C., Katsoulas, N., Savvas, D., 2018. Impact of cultivar and grafting on nutrient and water uptake by sweet pepper (*Capsicum annuum* L.) grown hydroponically under Mediterranean climatic conditions. *Frontiers in Plant Science* 9, 1244.
77. Savvas, D., Gruda, N., 2018. Application of soilless culture technologies in the modern greenhouse industry - A review. *European Journal of Horticultural Science* 83, 280-293*.*
78. Gruda, N., Savvas, D., Colla, G., Rouphael, Y., 2018. Impacts of genetic material and current technologies on product quality of selected greenhouse vegetables – A review. *European Journal of Horticultural Science* 83, 319-328.
79. Ntatsi, G., Karkanis, A., Yfantopoulos, D., Pappa, V.A., Konosonoka, I.H., Travlos, I., Bilalis, D., Bebeli, P., Savvas, D., 2019. Evaluation of the field performance, nitrogen fixation efficiency and competitive ability of pea landraces grown under organic and conventional farming systems. *Archives of Agronomy and Soil Science* 65, 294-307.
80. Ropokis, A., Ntatsi, G., Kittas, C., Katsoulas, N., Savvas, D., 2019. Effects of temperature and grafting on yield, nutrient uptake, and water use efficiency of a hydroponic sweet pepper crop. *Agronomy* 9, 110.
81. Neocleous, D., Savvas, D., 2019. The effects of phosphorus supply limitation on photosynthesis, biomass production, nutritional quality, and mineral nutrition in lettuce grown in a recirculating nutrient solution. *Scientia Horticulturae* 252, 379-387.
82. Chatzigianni, M., Ntatsi, G., Theodorou, M., Stamatakis, A., Livieratos, I., Rouphael, Y., Savvas, D., 2019. Functional quality, mineral composition and biomass production in hydroponic spiny chicory (*Cichorium spinosum* L.) are interactively modulated by ecotype, salinity and nitrogen supply. *Frontiers in Plant Science* 10,1040.
83. Gatsios, A., Ntatsi, G., Tampakaki, A., Celli, L., Said-Pullicino, D., Giannakou, I., Savvas, D., 2019. Nitrogen nutrition optimization of organic greenhouse tomato through the use of legume plants as green manure or intercrops. *Agronomy* 9, 766.
84. Voutsinos, O., Mastoraki, M., Liakopoulos, G., Ntatsi, G., Karapanos, I., Savvas, D., 2020. Growth, yield, quality and photosynthetic performance of lettuce grown hydroponically either in a vertical system under two artificial lighting levels, or in a Mediterranean greenhouse during wintertime. *Agronomy* (submitted).

**III. Publications in international journals without impact factor**

1. Savvas, D., 2003. Hydroponics: A modern technology supporting the application of integrated crop management in greenhouse. *Journal of Food, Agriculture & Environment*, 1. WFL Publisher, Helsinki, Finland: pp. 80-86.
2. Liopa-Tsakalidis, A., Sakkopoulos, E., Savvas, D., Sideridis, A.B., Tzimas, J., 2005. HydroNet: An intelligent hydroponics web service environment. *Neural, Parallel and Scientific Computations*, 13: 15-36.
3. Passam, H.C., Karapanos, I.C., Bebeli, P.J., Savvas, D., 2007. A review of recent research on tomato nutrition, breeding and post-harvest technology with reference to fruit quality. *European Journal of Plant Science and Biotechnology* 1, 1-21.
4. Savvas, D., G. Ntatsi, H.C. Passam, 2008. Solanaceae: Plant nutrition and physiological disorders. *European Journal of Plant Science and Biotechnology* 2, 45-61.
5. Bilalis, D., Karkanis, A., Savvas, D., Kontopoulou, Ch.K., Efthimiadou, A., 2014. Effects of fertilization and salinity on weed flora in common bean (Phaseolus vulgaris L.) grown following organic or conventional cultural practices. *Australian Journal of Crop Science* 8, 178-182.
6. Βilalis, D., Karkanis, A., Angelopoulou, F., Travlos, I., Antoniadis, A., Ntatsi, G., Lazaridi, E., Savvas, D., 2015. Effect of organic and mineral fertilization on root growth and mycorrhizal colonization of pea crops (*Pisum sativum* L.). *Bulletin UASVM Horticulture* 72(2), 288-294. DOI:10.15835/buasvmcn-hort:11497.
7. Βilalis, D., Karkanis, A., Travlos, I., Antoniadis, A., Ntatsi, G., Bebeli, P., Savvas, D., 2015. Wild mustard (*Sinapis arvensis* L.) and corn poppy (*Papaver rhoeas* L.) competition with four pea varieties cultivated following conventional or organic farming practices. *Bulletin UASVM Horticulture* 72(2), 443-444. DOI:10.15835/buasvmcn-hort:11633.

**IV. Book Chapters**

1. Savvas, D., 2001. Nutritional Management of Vegetables and Ornamental Plants in Hydroponics. In: Dris, R. Niskanen, R., and S.M. Jain (Eds). Crop Management and Postharvest Handling of Horticultural Products. Volume I: Quality Management. Science Publishers, Enfield, N.H., U.S.A.: pp. 37-87.
2. Savvas, D., 2002. General introduction. In: Savvas, D. and H.C. Passam (Eds). Hydroponic Production of Vegetables and Ornamentals. Embryo Publications, Athens, Greece: pp. 15-23.
3. Savvas, D., 2002. Nutrient solution recycling. In: Savvas, D., and H.C. Passam (Eds). Hydroponic Production of Vegetables and Ornamentals. Embryo Publications, Athens, Greece: pp. 299-343.
4. Gianquinto, G.P., Muñoz, P., Pardossi, A., Ramazzotti, S., Savvas, D., 2013. Chapter 10: Soil fertility and plant nutrition. In: Good Agricultural Practices for Greenhouse Vegetable Crops. Principles for Mediterranean Climate Areas. Food and Agriculture Organization of the United Nations, Plant Production and Protection Paper 217, Rome, pp. 205-269.
5. Savvas, D., Gianquinto, G.P., Tüzel, Y., Gruda, N., 2013. Chapter 12. Soilless Culture. In: Good Agricultural Practices for Greenhouse Vegetable Crops. Principles for Mediterranean Climate Areas. Food and Agriculture Organization of the United Nations, Plant Production and Protection Paper 217, Rome, pp. 303-354.
6. Savvas, D., Ntatsi, G., Barouchas, P., 2017. Soil conservation, soil fertility and plant nutrition management. In: Good Agricultural Practices for Greenhouse Vegetable Production in the South East European Countries. Food and Agriculture Organization of the United Nations, Plant Production and Protection Paper 230, Rome, pp. 53-77.
7. Rouphael, Y., Venema, J.H., Edelstein, M., Savvas, D., Colla, G., Ntatsi, G., Ben-Hur, M., Kumar, P., Schwarz, D., 2017. Grafting as a Tool for Toletance of Abiotic Stress. In: Colla, G.; Pérez-Alfocea, F.; Schwarz, D. (Eds): Vegetable Grafting: Principles and Practices. CABI, Oxfordshire, UK, pp. 171-215.
8. Savvas, D., Neocleous, D., 2019. Developments in soilless/hydroponic cultivation of vegetables. In: Hochmuth, G. (Ed.). Achieving sustainable cultivation of vegetables. Burleigh Dodds Science Publishing, Cambridge, UK, pp. 211-243.

**V. Publications in Proceedings of International Congresses and Symposia**

1. Gizas, G., Savvas, D., and I. Mitsios, 1999. Availability of macrocations in perlite and pumice as influenced by the application of nutrient solutions having different cation concentration ratios. Acta Horticulturae, 548: 277-284.
2. Savvas, D., 2001. Nutritional management of gerbera (*Gerbera jamesoni*) grown in a closed soilless culture system. Acta Horticulturae, 554: 175-182.
3. Savvas, D., K. Samantouros, D. Paralemos, G. Vlachakos, M. Stamatakis, and C. Vassilatos, 2002. Yield and nutrient status in the root environment of tomatoes grown on chemically active and inactive inorganic substrates. Acta Horticulturae, 644: 377-383.
4. Savvas, D. and I. Tsirogiannis, 2002. Computer-controlled recycling of nutrient solutions in hydroponics by means of two alternative models. In: Proccedings, 1st Conference of Hellenic Association of Information & Computer Technologies in Agriculture, Food and Environment. 6-7 June 2002, AUA, Athens, Greece. pp. 253-260.
5. Liopa-Tsakalidis, A., Mavrogianopoulos, G.N., Passam, H.C., Savvas, D., Sideridis, A.B., and C.P. Yialouris, 2002. An integrated management information system in hydroponics. In: Proceedings, 1st Conference of Hellenic Association. 6-7 June 2002, AUA, Athens, Greece. pp. 556-564.
6. Stamatakis, A., D. Savvas, N. Papadantonakis, N. Lydakis-Simantiris, P. Kefalas, 2003. Effects of silicon and salinity on fruit yield and quality of tomato grown hydroponically. Acta Horticulturae, 609: 141-149.
7. Anastasiou, A., K.P. Ferentinos, K.G. Arvanitis, N. Sigrimis, D. Savvas, 2005. DSS-Hortimed for on-line management of hydroponic systems. Acta Horticulturae, 691: 267-274.
8. Savvas, D., V.A. Pappa, G. Gizas and L. Maglaras, 2006. Influence of NaCl concentration in the irrigation water on salt accumulation in the root zone and yield in a cucumber crop grown in a closed hydroponic system. Acta Horticulturae, 697: 93-99.
9. Katsoulas, Ν., E. Kitta, C. Kittas,I.L. Tsirogiannis, E. Stamati, D. Savvas, 2006. Greenhouse cooling by a fog system: Effects on microclimate and on production and quality of a soilless pepper crop. Acta Horticulturae 719, 455-461.
10. Savvas, D., I.L. Tsirogiannis, G. Gizas, N. Petropoulos, S. Koukladas and N. Sigrimis, 2006. Exploring a model relating the accumulation of NaCl with the water consumption in closed hydroponic systems. Acta Horticulturae 718, 453-460.
11. Savvas, D., N. Mantzios, P. Barouchas, D. Kyrkas, H.C. Passam, and C. Olympios, 2006. Effects of increasing salinity due to progressive NaCl accumulation in the nutrient solution on French beans grown in a closed hydroponic system. Acta Horticulturae 747, 531-538.
12. Savvas, D., 2008. Modern greenhouse technology, certification, and good agricultural practices in protected cultivation. Invited paper, Proceedings, 2nd Coordinating Meeting of the Regional FAO Working Group on Greenhouse Crop Production in the SEE Countries, Antalya, Turkey, 7-11 April 2008, pp. 95-105.
13. Anastasiou, A., D. Savvas, G. Pasgianos, C. Stangellini, F. Kempkes, N.Sigrimis, 2009. Decision support for optimised irrigation scheduling. Acta Horticulturae 807, Vol. I, 253-258.
14. Savvas, D., Olympios, C., Passam, H.C., 2009. Management of nutrition and irrigation in soil-grown and soilless cultivations in mild-winter climates: problems, constraints and trends in the Mediterranean region. Invited paper, ISHS Symposium on "Strategies Towards Sustainability of Protected Cultivation in Mild Winter Climate", Antalya, Turkey, 6 – 11 April 2008. Acta Horticulturae 807, Vol. II, 415-426.
15. Savvas, D., E. Chatzieustratiou, C. Paschalidis and N. Sigrimis, 2009. Impact of a progressive Na and Cl accumulation in the root zone on pepper grown in a closed-cycle hydroponic system. Acta Horticulturae 807, Vol. II, 451-456.
16. Savvas, D., 2008. Modern developments in the use of inorganic media in greenhouse vegetable and flower production. Invited paper, ISHS International Symposium on Growing Media, Nottingham, 2 - 8 September 2007. Acta Horticulturae 819, 73-86.
17. Savvas, D., G. Patakioutas, G. Datsi and G. Karras, 2008. Application of some systemic pesticides via the root system in substrate grown crops under conditions of complete nutrient solution recycling. Acta Horticulturae 819, 451-458.
18. Tsirogiannis, I., D. Savvas, N. Katsoulas, C. Kittas, 2012. Evaluation of crop reflectance indices for greenhouse irrigation scheduling. Acta Horticulturae 927, 269-276.
19. Kitta, E., Bartzanas, T., Savvas, D., Katsoulas, N., 2012. Effect of shading on greenhouse energy balance and crop transpiration. Acta Horticulturae 927, 689-694.
20. Ntatsi, G., Savvas, D., Schwarz, D., 2012. Role of abscisic acid in the adaptation of grafted tomato to moderately suboptimal temperature stress. Acta Horticulturae 952, 295-302.
21. Lycoskoufis, I., Mavrogiannopoulos, G., Savvas, D., Ntatsi, G., 2012. Impact of salinity induced by high concentration of NaCl or by high concentration of nutrients in tomato plants. Acta Horticulturae 952, 689-696.
22. Katsoulas, N., Kakavikakis, G., Kittas, C., Bartzanas, T., Savvas, D., 2012. Performance test of a Na+ accumulation model as part of a decision support system for closed hydroponic systems management. Acta Horticulturae 957, 139-145.
23. Savvas, D., Ntatsi, G., Moiras, N., Tsakalidis, A., Ropokis, A., Liopa-Tsakalidi, A., 2012. Impact of grafting and rootstock on the responses of cucumber to heavy metal stress. Acta Horticulturae 960, 49-56.
24. Katsoulas, N., Kittas, C., Bartzanas, T., Savvas, D., 2014. Development and evaluation of a DSS for drainage management in semi-closed hydroponic systems. Acta Horticulturae 1034, 509-516.
25. Savvas, D., Ntatsi, G., Rodopoulou, M., Goumenaki, F., 2014. Nutrient uptake concentrations in a cucumber crop grown in a closed hydroponic system under Mediterranean climatic conditions as influenced by irrigation schedule. Acta Horticulturae 1034, 545-552.
26. Katsoulas, N., Kittas, C., Bartzanas, T., Savvas, D., 2014. Use of a Decision Support System for management of the drainage solution in semi-closed hydroponic systems under different drainage fractions. Acta Horticulturae 1037, 1067-1074.
27. Patakioutas, G., Dimou, D., Kostoula, O., Yfanti, P., Paraskevopoulos, A. Ntatsi, G., Savvas, D., 2015. Inoculation of tomato roots with beneficial micro-organisms as a means to control *Fusarium oxysporum* f.sp. *lycopersici* and improve nutrient uptake and yield. Acta Horticulturae 1107, 141-148.
28. Tsirogiannis, I.L., Karras, G., Lambraki, E., Savvas, D., Castellano, S., 2016. Evaluation of a plastic tube based hydroponic system for horizontal and vertical green surfaces on buildings. Acta Horticulturae 1108, 323-330.
29. Karras, G., Tsirogiannis, I.L., Bakea, M., Savvas, D., Lykas, C., Salas, M.C., 2016. A plants palette for hydroponic structures on buildings. Acta Horticulturae 1108, 279-286.
30. Savvas, D., Ropokis, A., Ntatsi, G., Kittas, C., 2016. Current situation of greenhouse vegetable production in Greece. Acta Hort. 1142, 443-448.
31. Kontopoulou, C.K., Giagkou, S., Stathi, E., Savvas, D., 2016. Responses of hydroponically-grown common bean to N-starvation accompanied by root inoculation with N2-fixing bacteria. Acta Hort. 1142, 31-36.
32. Savvas, D., Pappa, V.A., Yfantopoulos, D., Karkanis, A., Travlos, I., Bebeli1, P.J., Ntatsi, G., Bilalis, D., 2017. Impact of organic practices on growth, yield, and greenhouse gas emissions by pea landraces. Acta Hort. 1164, 77-84.
33. Patakioutas, G., Dimou, D., Yfanti, P., Karras, G., Ntatsi, G., Savvas, D., 2017. Root inoculation with beneficial micro-organisms as a means to control *Fusarium oxysporum* f. sp. *lycopersici* in two Greek landraces of tomato grown on perlite. Acta Hort. 1168, 277-286.
34. Ropokis, A., Giagtzoglou, P., Ginosatis, S., Ntatsi, G., Savvas, D., Kittas, C., Katsoulas, N., 2017. Nutrient uptake concentrations of a pepper crop under Mediterranean climate conditions. Acta Hort. 1170, 687-694.
35. Tsirogiannis, I.L., Karras, G., Varras, G., Lampraki, E., Bakea, M., Savvas, D., 2017. Exterior hydroponic panel - System and plants evaluation and effects on the building's outer surface conditions. Acta Hort. 1189, 217-222.
36. Savvas, D., Ntatsi, G., Vlachou, M., (...), Ropokis, A., Tampakaki, A., 2018. Impact of different rhizobial strains and reduced nitrogen supply on growth, yield and nutrient uptake in cowpea grown hydroponically. Acta Hort. 1227, 417-424.
37. Karavidas, I., Yfantopoulos, D., Ntatsi, G., Ntanasi, Th., Dardas, I., Savvas, D., 2019. Comparison of soil-N availability in a field cultivated with legume or non-legume plants during the winter in a Mediterranean environment. Acta Hort. 1253, 191-197.
38. Bempi, S., Makrogianni, D., Tsekouras, A., Ntatsi, G., Savvas, D., Karapanos, I., 2019. Postharvest behaviour and quality changes of green pods of cowpea (*Vigna unguiculata* ssp. unguiculata) in relation to storage temperature and plastic packaging. Acta Hort. 1256, 601-607.
39. Savvas, D., Tsopelopoulos, K., Vourdas, Ch., Chatzigiakoumis, E., Ropokis, A., Ntatsi, G., 2020. Can grafting onto suitable rootstocks contribute to less discharge of drainage water in semi-closed soilless cultivations of tomato? Acta Hort. 1268, pp. 119-124
40. Chatzigianni, M., Ntatsi, G., Livieratos, I., Aliferis, K.A., Savvas, D., 2020. Metabolic profile of two different Cichorium spinosum L. Ecotypes as influenced by nitrogen form and supply levels. Acta Hort. 1268, 51-57.
41. Savvas, D., 2020. Current knowledge and recent technological developments in nutrition and irrigation of greenhouse crops. Acta Hort. 1268, 1-11.
42. Savvas, D., Ntatsi, G., Drakatos, S., 2020. A Decision Support System to automatically calculate and readjust nutrient solutions in commercial soilless cultivations. Acta Hort. 1271, 293-300.
43. Kalozoumis, P., Ntatsi, G., Marakis, G., Simou, E., Tampakaki, A., Savvas, D., 2020. Impact of grafting and different strains of plant growth promoting rhizobacteria on tomato plants grown hydroponically under combined drought and nutrient stress. Acta Hort. 1273, 153-159.
44. Gatsios, A., Ntatsi, G., Tampakaki, A., Celli, L., Savvas, D., 2020. Assessing the possibility to use legume plants as cover crops or intercrops in organic tomato production to optimize NUE. 30th International Horticultural Congress, 12 - 16 August 2018, Istanbul – Turkey. Acta Hort. (in press).
45. Savvas, D., Voutsinos, O., Mastoraki, M., Liakopoulos, G., Dekoulis, K., Ntatsi, G., 2020. Exploring the possibility to use energy from solar panels to provide artificial light through LED's in a vertical hydroponic crop of lettuce. GreenSys 2019: ISHS International Symposium on Advanced Technologies and Management for Innovative Greenhouses, Angers, France, 06/16 to 06/20 2019. Acta Hort. (in press).
46. Ntatsi, G., Karavidas, I., Giannikos, G., Tampakaki, A., Savvas, D., 2020. Effect of inoculation with rhizobia and reduced water supply on yield and biological nitrogen fixing activity of cowpea. GreenSys 2019: ISHS International Symposium on Advanced Technologies and Management for Innovative Greenhouses, Angers, France, 06/16 to 06/20 2019. Acta Hort. (in press).
47. Chatzigianni, M., Ntatsi, G., Livieratos, I., Aliferis, K.A. Savvas, D., 2020. Impact of nitrogen supply level and NaCl on the metabolism of *Cichorium spinosum* L. GreenSys 2019: ISHS International Symposium on Advanced Technologies and Management for Innovative Greenhouses, Angers, France, 06/16 to 06/20 2019. Acta Hort. (in press).

**IMPACT OF PUBLISHED RESEARCH (Status on 10 June 2020)**

Total number of citations in Scopus (excluding self-citations of all authors): 1481

h-factor in Scopus (excluding self-citations of all authors): 22.