



CURRICULUM VITAE

KOSTAS S. CHARTZOULAKIS, MSc, PhD

Full name: Kostas S. Chartzoulakis
Date of birth: Kisamos, Crete, Greece, 27 March 1952
Citizenship: Greek
Marital Status: Married with two children
Present Address: NAGREF, Olive Tree and Subtropical Plants Institute, Agrokippio, 73100 Chania, Crete, Hellas.
 Tel.: +30 28210 83442, Fax: +30 28210 93963, Mobile: +30 69770 93228
 E-mail: kchartz@nagref-cha.gr, Web site: <http://www.nagref-cha.gr>

Studies :

1970-1975 MSc. in Agricultural Engineering and Hydraulics, Agricultural University of Athens, Greece
 1975 Postgraduate Training in Irrigation and Soil Physics, University of Wageningen, Netherlands
 1986-1987 MSc Programme in Protected Crops, MAICH, CIHEAM, France. Awarded for the thesis '*Effects of saline irrigation water on germination, growth and yield of greenhouse cucumber*'
 1988-1991 PhD Programme, Dept of Horticulture, University of Thessaloniki, Greece. Awarded Doctor of Philosophy for the thesis '*Ecophysiological response of kiwifruit, cv Hayward, to water and salt stress in the stage of vegetative growth*'

Present work: 1980 up today in the Institute for Olive Tree Subtropical Plants of Chania, Crete
 2000-2005 Senior Researcher, Head of the Department of Irrigation and Water Resources.
 2006-up today Director of the Institute for Olive Tree and Subtropical Plants

Work subject - Water requirements of the crops (olives, citrus, avocado, grapes, vegetables)
 - Irrigation systems (design and application)
 - Soil-Plant-Water relationships (photosynthesis, stress physiology)
 - Use of marginal (saline and reclaimed) waters in agriculture
 - Sustainable water resources management in agriculture, water footprint
 - Treatment and valorisation of olive mill wastewaters (OMW)

Languages: Greek, English

Scientific Societies Membership

Active member of the following Scientific Societies:

- The International Society for Horticultural Science (ISHS),
- The International Water Association (IWA)
- The Geotechnical Chamber of Greece
- The Greek Society for Horticultural Science (GSHS)

Research projects

1. **"Study of the physiological basis of salt tolerance of the main Greek olive cultivars"** (Contract GSRT-1296/99). Duration: 1999-2001.
2. **"Wastewater recycling of olive oil mills in Mediterranean countries – Demonstration and sustainable reuse of residuals"** (WAWAROMED) in INCO-MED program of EU (contract ICA3-CT1999-00011). Duration: 2000-2003.
3. **"Study of the defense mechanisms to salinity of grapevines (*Vitis vinifera* L.)"** (Contract GSRT-5363/00). Duration: 2001-2003.
4. **"Technology for treatment and reuse of the water used to wash olives"** (UDOR), in EU CRAFT-2000 Program (EVK1-CT-2001-30011). Duration: 2002-2004.
5. **Towards sustainable water use on Mediterranean islands: Addressing conflicting demands and varying hydrological, social and economic conditions'** (MEDIS) in the EESD-ESD of EU (contract EVK1-CT-2001-00092). Duration: 2002-2005.
6. **'The future of olive plantation systems on sloping and mountainous land: Scenarios for production and natural resource conservation'** (OLIVERO) in the QLRT of EU (contract QLRT-CT-2002-01841). Duration: 2003-2005.
7. **'Best water use innovative practices towards a sustainable water resources management'** (BEWARE) in the CRINNO project of Region of Crete-EU. Duration: 2003-2005.
8. **'A new approach of irrigation technology regarding the optimization of production system procedure'** (FP-21) in the EPAN 4.5 project of GSRT-EU. Duration: 2003-2006.
9. **"Safe and High Quality Food Production using Low Quality Waters and Improved Irrigation Systems and Management"** (SAFIR) in the FP6-2004-FOOD-3-B of EU (contract FOOD-CT-2005-023168). Duration: 2005-2009.
10. **"Mise en œuvre d'une Plateforme de Services pour la lutte contre la sécheresse et la désertification dans les régions du bassin de la Méditerranée Européenne à travers un système d'actions pilote locales"** (DESERTNET 2) in the frame of INTEREG III-MEDOC II (Convention: 2005-05-4.4-I-156) Duration: 2006-2008.
11. **'Physiological adaptation mechanisms of grapevine cultivars under combined drought stress and elevated UV radiation'** in the 'PENED-2003' (contract 03EΔ480) of GSRT. Duration: 2005-2008.
12. **'Innovative irrigation techniques for improved water use efficiency and fruit quality in olive culture'** in Greek-Tunisian Cooperation for R&T of GSRT (contract 135-e). Duration: 2006-2008.
13. **'Development and validation of an irrigation scheduling tool for olives to improve water use efficiency at farm level'** in Greek-Egypt Cooperation for R&T of GSRT (contract 269-e). Duration 2006-2008.
14. **Biotechnological Recycle of olive mills washing water by microalgae (ALGATEC)** in the frame of FP7-SME-2008-1 of E.U (Grant agreement: ALGATEC 232331). Duration: 2009-2011.
15. **Innovation Center of Crete - Emphasizing the Management of Natural Resources** in the frame of 830/EYΔ&IIT/2008 του EEA Grants 2004-2009 (EYΔ&IITΣ 1319/12-05-2008. Duration: 2009-2011.
16. **'Water and Life (H₂O and Life)** in the frame of Life Learning Grundtvig 2011 (contract 2011-1-CY1-GRU06-01523 3). Duration: 2012-2013.

Organization of Scientific Meetings

- Convenor of the **'2nd International Symposium on Irrigation of Horticultural Crops'** held in Chania, Crete, Greece from 8-13/9/96.

- Editor of ACTA HORTICULTURAE No 449 (Volume I and II), the official journal of International Society for Horticultural Science (ISHS).
- Local organiser of the High Level Scientific Conference on '*Photosynthesis in a changing world*' funded (HPCF-2001-00003-01), held in Chania, Crete, Greece from 27/5-4/7/2003.
- Convener of the 23rd Congress of Greek Society of Horticultural Science (GSHS) '*The agricultural production in the new European Environment*', held in Chania, Crete, Greece from 23-26/10/2007.
- Editor of the Vol. 12 of the GSHS with the Proceedings of the 23rd Conference of GSHS (ISBN: 978 960 88296 5 7).
- Convener of the 4th OLIVEBIOTEQ Conference held in Chania, Crete Greece from 31/10-4/11/2011.
- Editor of the 'Proceedings of 4th International Conference on '*Olive culture, Biotechnology and Quality of Olive Tree Products*' (OLIVEBIOTEQ 2011' (ISBN: 978 618 80367 2 7) Vol. I & II), pp. 876..
- Chairman of the WG 'Saline Water Management and Water Reuse', της CMIR (Commission of Irrigation) of ISHS.
- Co-Editor of the book '*Following Olive Footprints: Cultivation and Culture, Folklore and History, Traditions and Uses*', AARINENA, IOC, ISHS, EdS: M. El-Kholy, D. Avanzato, J. M. Caballero, K. S. Chartzoulakis, F. Vita Serman, ISBN 978 90 6605 734 0, pp. 446.
- Member of the editorial board of 'Journal of BALKAN ECOLOGY'
- Reviewer in the international scientific journals 'Agricultural Water Management', 'Agriculture, Ecosystem & Environment', 'Australian Journal of Agricultural Research', 'Canadian Journal of Plant Science', 'European Journal of Agronomy', 'Functional Plant Biology', 'Journal of Horticultural Science and Biotechnology', 'Scientia Horticulturae', 'Water International', 'Bioresource Technology', 'HortScience', 'J. Plant Physiology', etc.

Participation in Scientific meetings

Some of the international scientific meetings I have participated presenting my work:

1. 2nd International Conference on Irrigation, 15-17 Sept., 1981, Tel-Aviv, Israel.
2. 1st Intern. Symposium on Water Relations in Horticultural Crops, 3-5 Sept., 1984, Pisa, Italy
3. Intern. Conference for the Crop Water Requirements, 9-14 Sept., 1984, ICID-UNESCO, Paris, France
4. 4th International Symposium on Water supply and Irrigation in open and under Protected Cultivation. August 26-28, 1985, Padova, Italy.
5. First International Conference on Mediterranean Tree Crops, 13-15 November 1985, Chania, Crete, Greece
6. General meeting of European Co-operative Network of Olive Production. FAO, 29/9-4/10-1986, Marseille, France
7. AGRIMED meeting on New Alternative Crops for Mediterranean basin EEC countries. 21-23/9/1988, Chania, Crete, Greece
8. 2nd International Meeting on Mediterranean Tree Crops, 2-4 Nov. 1988, Chania, Crete, Greece.
9. V International Symposium on Scheduling of Irrigation for Vegetable Crops under field conditions. 5-9 June 1989, Potenza, Italy.
10. 2nd Inter. Symposium on Protected Cultivation of Vegetables in mild winter climates, 30 Oct.-3 Nov. 1989, Iraklio, Crete.
11. XXIII International Horticultural Congress, 27 Aug.-1 Sept. 1990, Firenze, Italy.
12. 8th Consultation of Research Network on Olives, 10-13 Sept. 1991, Izmir, Turkey.
13. VII International Citrus Congress, 8-13 March 1992, Acireale, Italy.

14. International Symposium on Irrigation of Horticultural Crops, 23-27/11/92, Almeria, Spain.
15. International Symposium on Quality of Fruits and Vegetables: The Influence of Pre- and Post Harvest Treatments and Technologies, 19-23 / 9/ 93, MAICH, Chania, Crete, Greece.
16. XXV International Horticultural Congress, 21-27 Aug. 1994, Kyoto, Japan.
17. International Conference on Land and Water Management in Mediterranean Region, 4-8 Sept. 1994, MAI Bari, Italy.
18. Third International Symposium on Kiwifruit, 19-22 Sept. 1995, Thessaloniki, Greece.
19. 2nd Intern. Symposium on Wastewater Reclamation and Reuse, IAWQ, 17-20/10/1995, Iraklio, Greece.
20. Second International Symposium on Irrigation of Horticultural Crops, 9-13 September 1996, Chania, Crete, Greece.
21. Mediterranean Colloquium on Protected Cultivation, 6-9 Oct. 1996, Agadir, Morocco.
22. Water conservation: Best management practices, Experts Workshop, 6-10/9/97, Capetown, S. Africa.
23. Third International Symposium on Olive Growing, 22-26 September 1997, Chania, Crete, Greece.
24. XXV International Horticultural Congress. 3-8 Aug. 1998, Brussels, Belgium
25. International Workshop on Stress Synergism in Plants: Abiotic and Biotic Stress in Photosynthesis. 23-26 Aug. 1998, Tata, Hungary.
26. 3rd International Symposium on Irrigation of Horticultural Crops, 28/6-2/7/1999, Lisbon, Portugal.
27. 6th International Symposium on Grapevine Physiology and Biotechnology, 11-15/6/2000, Iraklio, Crete, Greece
28. 1st World Water Congress – 3rd International Symposium on Wastewater Reclamation and Reuse, 3-7/7/2000, Paris, France
29. 4th International Symposium on Olive Growing, 25-30/9/2000, Valenzano, Bari, Italy.
30. International Workshop on ‘Land and Water Use for Sustainable Olive Growing’, COI, 24-28/9/2001, Naples, Italy
31. International Symposium on Cherry Tomato, 25-29/6/2002, Santorini, Greece
32. XXVI International Horticultural Congress, ISHS, 11-17 Aug. 2002, Toronto, Canada
33. 13th Congress of FESPP, 2-6 Sept. 2002, Iraklion, Crete, Greece.
34. Regional Symposium on Water Recycling in Mediterranean Region, 26-29/9/2002, Iraklio, Crete, Greece
35. Integrated Water Management – Policy Aspects, 19-21/6/2003, Nicosia, Cyprus
36. Sustainable Strategies for Irrigation in Salt-prone Mediterranean Regions: A System Approach, 8-10/12/2003, Cairo, Egypt
37. Water Resources Management in Water Stressed Environments and Islands: The Challenge of Eco-adaptation, 1-4/2/2004, Pa Palma, Canary Islands, Spain
38. International Seminar on Olive Biotechnology and Quality of Olive end Products” 22-24/11/2004, Errachidia Morocco.
39. International Course on ‘*Irrigation and Quality of Olive Oil*’, organized by International Olive Oil Council (COI) from 17-24/4/2005, Nimes, France.
40. International Conference on Water Management in Mediterranean Basin organized by Arid Cluster (EU) 12-14/5/2005, Limmasol, Cyprus.
41. 2nd International Conference on Cherry Tomato, 9-11/6/2005 Santorini, Greece
42. 9th International Conference on ‘Environmental Science and Technology, 1-3 September 2005, Rhodes, Greece
43. 2nd International Conference on ‘Integrated Approaches to Sustain and Improve Plant Production Under Drought Stress’ (INTERDROUGHT II), 24-28/9/2005, Rome Italy

44. International Workshop on 'Agricultural Recycling of Olive Oil Mill Wastewaters', 4-5 November 2005, Reggio Calabria, Italy
45. 2nd Mediterranean Conference on 'Water Resources in Mediterranean Basin' (WATEMED 2) 14-17/11/2005, Marrakech, Morocco.
46. 2nd International Symposium on Biotechnology and Quality of Olive Tree Products around Mediterranean basin' 5-10 November 2006, Marsala, Italy.
47. 5th International Symposium on Irrigation of Horticultural Crops, 28/8-3/9/2006, Mildura, Australia presenting paper.
48. International Conference 'New Technologies for the Treatment and Valorization of Agro By-Products', ISRIM, 3-5/10/2007 Terni, Italy
49. First Symposium on Horticulture in Europe, ISHS, 17-20/2/2008 Vienna, Austria as invited speaker.
50. IX International Conference on Protection and Restoration of the Environment, PRE9', 29/6-3/7/2008 Kefalonia, Greece
51. International Conference on 'La Valorization des Margines et du Grignon en Agriculture, 23-24/7/2008 Tunis, Tunisia
52. VI International Symposium on Olive Growing, ISHS, 9-13/9/2008 Evora Portugal.
53. 'Olive Irrigation Symposium', Nazareth (Israel), 6-10/12/2009, organized by ISHS as invited speaker.
54. International Conference 'OliveBioteq' 2009, Sfax (Tunisia), 15-19/12/2009 presenting paper.
55. 3rd International Conference on 'Small and Decentralized Waste and Wastewater Treatment Plants (SWAT), 14-16 May 2010, Skiathos, presenting paper.
56. International Workshop on 'Climate Change and Sustainability of Agro-Environment: Challenges and Interventions" 4-5 June, 2010, Islamabad, Pakistan as invited speaker
57. 28th International Horticultural Congress (IHC), Horticultural use of water in a changing climate' CLIMWATER, 23-27/8/2010 Lisbon, Portugal.
58. 2nd International Conference of IAMAW 'Recycling and utilization of Mediterranean agro-industrial wastes', 17-18/6/2010 Izmir, Turkey.
59. International Conference '*The Olive Sector: 2020 vision*' 14-15/4/2011, Athens, Greece co-sponsored by EU, as invited speaker.
60. 4th International Conference '*Olive growing and Biotechnology of olive products*' OLIVEBIOTEQ 2011, 31/10-4/11/2011, Chania, Greece, convener.
61. 'IWA Regional Conference on Wastewater Purification & Reuse', 28-30/03/2012, Heraklion, Crete, Greece.
62. 'Valorization of Mediterranean Bio-wastes and Effluents', 5-8/06/2012, Santarem, Portugal organized by IAMAW and the Portuguese Society of Biotechnology (SPBT).
63. '7th International Symposium on Irrigation of Horticultural Crops', 16-20/07/2012 Geisenheim, Germany organized by the Geisenheim Research Centre and International Society for Horticultural Science (ISHS).
64. 2nd International Workshop on the 'Environment and Agriculture in Arid and Semiarid Regions', 6-7/09/2012, Constanta, Romania as invited speaker, organized by Research Station of Fruit Growing and Ovidius University.
65. 7th International Symposium on Olive Growing, 25-29/09/2012, San Juan, Argentina as invited speaker, organized by the National Institute of Technology (INTA), the National University of San Juan (UNSL) and the International Society for Horticultural Science (ISHS).
66. International Workshop 'SOIL-WASTE-WATER 2013', 3-5/4/2013, Landau, Germany as invited speaker, organized by the University of Koblenz-Landau and the Deutsche Forschungsgemeinschaft (DFG).

Scientific Publications

I. Thesis

1. **Chartzoulakis K. S.**, 1988. Effects of saline irrigation water on germination, growth and yield of greenhouse cucumber. M.Sc Thesis, MAICH/ICAMAS, Paris, pp. 1-46.
2. **Chartzoulakis K.S.**, 1991. Ecophysiological response of kiwifruit, cv Hayward, to water and salt stress in the stage of vegetative growth. PhD Thesis. *Annals of Faculty of Agriculture* 22, University of Thessaloniki, pp 137.

II. Research papers in Referred Journals

1. **Chartzoulakis K.**, Michelakis N. and E. Vougioukalou, 1991. Growth and production of kiwi under different irrigation systems. *FRUITS* Vol. 46:75-81.
2. **Chartzoulakis K.**, Michalakis N. and I. Tzompanakis, 1992. Effects of water amount and application date on yield and water utilization efficiency of Koroneiki olives, under drip irrigation. *Adv. Hort. Sci.*, 6: 82-84.
3. **Chartzoulakis, K. S.**, 1992. Effects of NaCl salinity on germination, growth and yield of greenhouse cucumber. *J. Hort. Sci.*, 67(1): 115-119.
4. **Chartzoulakis K.**, Noitsakis B. and I. Therios, 1993. Photosynthesis, plant growth and dry matter distribution in kiwifruit, as influenced by water deficits. *Irrig. Sci.* 14: 1-5.
5. **Chartzoulakis K.**, Noitsakis B. and I. Therios, 1993. Effects of shading on gas exchange, specific leaf weight and chlorophyll content on four kiwi cultivars, under field conditions. *J. Hort. Sci.* 68: 605-611.
6. **Chartzoulakis K.** 1994. Photosynthesis, water relations and leaf growth of cucumber exposed to salt stress. *Scientia Hort.* 59: 27-35.
7. **Chartzoulakis K.** and Drosos N. 1995. Water use and yield of greenhouse grown eggplant under drip irrigation. *Agric. Water Manag.* 28: 113-120.
8. **Chartzoulakis K.**, Therios I., Misopolinos N. and Noitsakis B., 1995. Growth, ion content and photosynthetic performance of salt-stressed kiwifruit. *Irrig. Sci.* 16: 23-28.
9. **Chartzoulakis K.** and Loupassaki M., 1997. Effects of NaCl salinity on germination, growth, gas exchange and yield of greenhouse eggplant. *Agric. Water Manag.* 32(3): 215-225.
10. **Chartzoulakis K. S.**, 1998. Environmentally sustainable irrigation management for greenhouse vegetables in Crete, Greece. *J. Balkan Ecol.* 1(2): 62-67.
11. **Chartzoulakis K.**, Michelakis N. and Stefanoudaki E., 1999. Growth, yield and fruit quality of 'Bonanza' oranges under different soil water regimes. *Adv. Hort. Sci.* 13: 6-11.
12. Nastou A., **Chartzoulakis K.**, Therios I. and Bosabalidis A., 1999. Leaf anatomical responses, ion content, CO₂ assimilation and leaf anatomy in three lemon cultivars under NaCl salinity. *Adv. Hort. Sci.* 13 (2): 61-67.
13. **Chartzoulakis K.**, Patakas A and Bosabalidis A., 1999. Changes in water relations, photosynthesis and leaf anatomy induced by intermittent drought in two olive cultivars. *Envir. Exp. Bot.* 42 (2): 113-120.
14. **Chartzoulakis K.**, Patakas A and Bosabalidis A., 1999. Comparative study on gas exchange, water relations and leaf anatomy of two olive cultivars grown under well irrigated and drought conditions. *Z. Naturforsch* 54: 688-692.
15. **Chartzoulakis K.** and Drosos N., 1999. Growth, yield and water use of pepper grown in an unheated greenhouse. *Agric. Med.* 129: 155-160.
16. **Chartzoulakis K.** and Clapaki G., 2000. Response of two pepper hybrids to NaCl salinity at various growth stages. *Scientia Hort.* 86: 247-260.
17. Stefanoudaki E., **Chartzoulakis K.**, Koutsaftakis A. and Kotsifaki F., 2001. Effects of drought on qualitative characteristics of olive oil, cv Koroneiki. *Grasas y Aceitas* 52(3-4): 202-206.

18. Fysarakis I., **Chartzoulakis K.** and Stavrakas D. 2001. Response of Sultana vines (*V. vinifera* L) on six rootstocks to NaCl salinity exposure and recovery. *Agric. Wat. Manag.* 51(1): 13-27.
19. Tsagarakis K.P., Tsoumanis P., **Chartzoulakis K.** and Angelakis A.N., 2001. Water resources status including wastewater treatment and reuse in Greece: Related problems and prospectives. *Water International* 26(2): 252-258.
20. **Chartzoulakis K.**, Paranychianakis N. and Angelakis A., 2001. Water resources management in the island of Crete, Greece with emphasis to agricultural use. *Water Policy* 3(3): 193-205.
21. **Chartzoulakis K.**, Patakas A., Kofidis G., Bosabalidis A. and Nastou A., 2002. Moderate water stress affects leaf anatomy, gas exchange, water relations and growth in two avocado cultivars. *Scientia Hort.*, 95: 39-50.
22. **Chartzoulakis K.**, Loupassaki M., Bertaki M. and Androulakis I., 2002. Effects of NaCl salinity on growth, ion content and CO₂ assimilation of six olive cultivars. *Scientia Hort.*, 96: 235-247.
23. Loupassaki M.H., **Chartzoulakis K.S.**, Digalaki N.B., Androulakis I.I., 2002. Effects of salt stress on concentration of nitrogen, phosphorus, potassium, calcium, magnesium and sodium in leaves, shoots and roots of six olive cultivars. *J. Plant Nutr.* 25(11): 2457-2482.
24. Centritto M., Loreto F. and **Chartzoulakis K.**, 2003. The use of low [CO₂] to estimate diffusional and non-diffusional limitations of photosynthetic capacity of salt-stressed olive sapling. *Plant, Cell & Environment* 26: 585-594.
25. Loreto F., Centritto M. and **Chartzoulakis K.**, 2003. Photosynthetic limitations in olive cultivars with different sensitivity to salt stress. *Plant, Cell & Environment* 26: 595-601.
26. Kofidis G., Bosabalidis A.M., **Chartzoulakis K.**, 2004. Leaf anatomical alterations induced by drought stress in two avocado cultivars. *J. Biol. Res.* 1: 115-120.
27. Paranychianakis N.V, **Chartzoulakis K.S.**, Angelakis A.N., 2004. Influence of rootstock, irrigation level and recycled water on water relations and leaf gas exchange of Soultanina grapevines. *J. Exp. Envir. Bot.* 52(2): 185-198.
28. **Chartzoulakis K.**, Psarras G., 2005. Global change effect on crop photosynthesis and production in Mediterranean: the case of Crete, Greece. *Agric. Ecosys. Environ.* 106(2-3): 147-157.
29. Paranychianakis N.V, **Chartzoulakis K.S.**, 2005. Irrigation of Mediterranean crops with saline water: from physiology to management practices. *Agric. Ecosys. Environ.* 106(2-3): 171-187.
30. **Chartzoulakis, K.**, 2005 Salinity and olive: Growth, salt tolerance mechanisms, photosynthesis and management practices. *Agric. Wat. Manag.*, 78(1-2): 108-121.
31. **Chartzoulakis K.**, Psarras G., Vemmos S., Loupassaki M., Bertaki M., 2006. Response of two olive cultivars to salt stress and potassium supplement. *J. Plant Nutr.* 29(11): 2063-2078.
32. Psarras G., Bertaki M, **Chartzoulakis K.**, 2008. Response of greenhouse tomato to salt stress and K⁺ supplement. *Plant Biosystems* 142 (1): 149-153.
33. Stefanoudaki E, Williams M, **Chartzoulakis K**, Harwood J., 2009. Olive oil qualitative parameters after orchard irrigation with saline water. *J. Agric. & Food Chem.* 57 (4): 1421-1425.
34. Stefanoudaki E, Williams M, **Chartzoulakis K**, Harwood J., 2009. Effect of irrigation on quality attributes of olive oil. *J. Agric. & Food Chem.* 57 (15): 7048-7055.
35. **Chartzoulakis K**, Psarras G., Moutsopoulou M., Stefanoudaki E., 2010. Application of olive mill wastewater to a Cretan olive orchard: Effects on soil properties, plant performance and the environment. *Agric. Ecosys. Environ.* 138 (3-4): 293-298.
36. Jensen R.C., Battilani A., Plauborg F., Psarras G., **Chartzoulakis K.**, Janowiak F., Stikic R., Jovanovic Z., Guitong L., Xuebin Q., Fulai L., Jacobsen S.E., Andersen N. M., 2010. Deficit irrigation based on drought tolerance and root signalling in potatoes and tomatoes. *Agric. Water Manag.* 98: 403-413.

37. Maton L., Psarras G., Kasapakis G., Lorenzen R.J, Andersen M., Boesen M., Bak S.N., **Chartzoulakis K.**, Pedersen M.S., Kloppmann W., 2010. Assessing the net benefits of using wastewater treated with a membrane bioreactor for irrigating vegetables in Crete. *Agric. Water Manag.* 98: 458-464.
38. Doupis G., **Chartzoulakis K.**, Beis A., Patakas A., 2011. Allometric and biochemical responses of grapevines subjected to drought and enhanced ultraviolet-B radiation. *Austr. J. Grape & Wine Res.*(17 (1): 36-42.
39. Doupis G., **Chartzoulakis K.**, A., Patakas A., 2012. Differences in antioxidant mechanisms in grapevines subjected to drought and enhanced UV-B radiation. *Emirates J. Food Agric.* 24(6): 607-613.
40. Doupis G., Bertaki M., Psarras G., Kasapakis I., **Chartzoulakis K.**, 2013. Water relations, physiological behavior and antioxidant defence mechanism of olive plants subjected to different irrigation regimes. *Scientia Hort.* 153: 150–156.
41. Ghrab M., Gargouri K., Bentaher H., **Chartzoulakis K.**, Ayadi M., Ben Mimoun M., Masmoudi M.M., Ben Mechlia N., Psarras G., 2013. Water relations and yield of olive tree (cv. Chemlali) in response to partial root-zone drying (PRD) irrigation technique and salinity under arid climate. *Agric. Water Manag.* 123: 1–11.

III Research papers in referred proceedings

1. **Chartzoulakis K.** and N. Michelakis, 1988. Influence of different irrigation systems on greenhouse tomatoes. *Acta Horticulturae*, 228: 97-104.
2. Michelakis N. and **K. Chartzoulakis**, 1988. Water consumptive use of greenhouse tomatoes as related to various levels of soil water potential under drip irrigation. *Acta Horticulturae*, 228:127-136.
3. **Chartzoulakis K.** and N. Michelakis, 1988. Root development and plant growth of young orange trees irrigated with different systems. *Proc. 2nd Inter. Meeting on Mediterranean Tree Crops*, 254-261.
4. **Chartzoulakis K.**, 1989. Effects of saline irrigation water on germination, growth and yield of greenhouse cucumber. *Acta Horticulturae*, 287: 327-334.
5. **Chartzoulakis K.** and N. Michelakis, 1990. Effects of different irrigation systems on root growth and yield of greenhouse cucumber. *Acta Horticulturae*, 278: 237-243.
6. **Chartzoulakis K.** and N. Michelakis, 1992. The effect of soil water potential on plant growth and gas exchange of young orange trees. *Proceedings International Society Citriculture*, 374-377.
7. **Chartzoulakis K.** 1995. Salinity effects on fruit quality of cucumber and eggplant. *Acta Horticulturae*, 379: 187-192.
8. **Chartzoulakis K.**, Therios I. and Noitsakis B., 1996. The effects of soil water deficit on internal water relations of kiwifruit. *Acta Horticulturae*, 444: 305-309.
9. **Chartzoulakis K.** and N. Drosos, 1997. Water requirements of green- house grown pepper under drip irrigation. *Acta Horticulturae*, 449 (1): 175-180.
10. Patakas A., Noitsakis. and **Chartzoulakis** 1997. Changes in WUE in *Vitis vinifera* as affected by leaf age. *Acta Horticulturae*, 449(2): 457-460.
11. Tsadilas C. and **Chartzoulakis K.**, 1998. Boron deficiency in olive trees in Greece in relation to soil boron concentration. *Acta Horticulturae*, 474(1): 341-344.
12. **Chartzoulakis K.** and Clapaki G., 2000. Effects of salinity on growth and yield of two pepper cultivars. *Acta Horticulturae*, 511: 143-149.
13. **Chartzoulakis K.**, Bosabalidis A., Patakas A. and Vemmos S., 2000. Effects of water stress on water relations, gas exchange and leaf structure of olive tree. *Acta Horticulturae*, 537 (1): 241-247.

14. Paranychianakis N., **Chartzoulakis K.** and Angelakis A., 2000. Growth and mineral uptake of sultana grapevines irrigated with reclaimed wastewater and its potential for using such waters in Crete, Greece. *Acta Horticulturae*, 537 (2): 725-730.
15. Paranychianakis N., **Chartzoulakis K.** Aggelidis S., Angelakis A., 2002. Grapevine growth and nutrition as affected by irrigation with recycled water. Proc. Reg. Symp. on Water Recycling in Mediterranean Region, Vol. I, p. 457-464.
16. Moutsopoulou M.N, **Chartzoulakis K.**, Stefanoudaki E., 2002. Effects of application of raw olive mill wastewater on soil properties and plant performance of olive orchards. Proc. Reg. Symp. on Water Recycling in Mediterranean Region, Vol. II, p. 155-159.
17. **Chartzoulakis K.**, Psarras G., Moutsopoulou M., Stefanoudaki E., 2006. Application of olive mill wastewater on olive orchards: Effects on soil properties, plant performance and the environment. Proceedings of OLIVEBIOTEQ 2006, Vol. II, 37-44.
18. **Chartzoulakis K.**, Loupassali M., Bertaki M., 2006. Response of 12 olive cultivars to NaCl salinity. Proceedings of OLIVEBIOTEQ 2006 Vol. I, 403-406.
19. Patakas A., Noitsakis B., Chouzouri A., **Chartzoulakis K.**, Beis A., Zotos A., 2008. Physiological and biochemical changes induced by different irrigation strategies in grapevines. *Acta Hort.* 792: 511-518.
20. Fernández J.E., **Chartzoulakis K.**, Grant O.M., Lemeur R., Steppe K., Marsal J. and Xiloyannis C., 2009. Water shortage and efficient water use in horticulture. *Acta Hort.* 817: 363-366.
21. Lorenzo A., Gonzalez-Lopez J., **Chartzoulakis K.**, Fenice M., Durán C., Psarras G., Ferreira A., Lasserrot A., Martínez N., Lilienthal H., Haenel M., Cabello V., 2010. Biotechnological recycle of olive mills washing water by microalgae. Proceedings *3rd SWAT Conference*, pp. 331-336.
22. **Chartzoulakis K.**, 2011. The use of saline water for irrigation of olive: Effects on growth, physiology, yield and oil quality. *Acta Hort.* 888: 97-108.
23. Psarras G., Kasapakis I., Stefanoudaki E., Papadakis I. **Chartzoulakis K.**, 2011. Effects of different irrigation regimes on olive tree physiology, yield and fruit quality. *Acta Hort.* 888: 89-06.

IV Chapters in books

1. **Chartzoulakis K.** and Tzouvelekas E., 2001. Quality of irrigation water and pricing policies for olive growing. In: Proc, Intern. Workshop on 'Land and Water Use for Sustainable Olive Growing' C.O.I., pp.245-259. Naples, Italy.
2. Metzidakis I. and **Chartzoulakis K.**, 2001. Soil conservation in olive orchards. A case study in Crete, Greece. Proc, Intern. Workshop on 'Land and Water Use for Sustainable Olive Growing' C.O.I. pp.289-295. Naples, Italy.
3. Angelakis A.N., **Chartzoulakis K.** and Salgot M., 2001. Wastewater reclamation and reuse. In: Advanced Wastewater Treatment and Reuse (EU-Leonardo Da Vinci Programme (Eds) A. Angelakis, Iraklio, Crete, Greece, pp.157-168.
4. **Chartzoulakis K.** and Bertaki M., 2006. Water use in Agriculture on Mediterranean islands: present situation and future perspectives. In: 'Water management in arid and semi-regions' P. Koundouri, K. Karousakis, D. Assimakopoulos, P. Jeffrey, M. A. Lange (eds), Edward Elgar Publ., U.K, pp. 136-157.
5. **Chartzoulakis K.**, 2012. Following Olive Footprints in Greece. In: 'Following Olive Footprints: Cultivation and Culture, Folklore and History, Traditions and Uses', AARINENA, IOC, ISHS, M. El-Kholy, D. Avanzato, J. M. Caballero, K. S. Chartzoulakis, F. Vita Serman, ISBN 978 90 6605 734 0, pp. 137-153.

V Review articles

1. **Chartzoulakis K.**, 1986. Water quality for irrigation. MAICH/ICAMAS, Paris, pp. 27.
2. **Chartzoulakis K.**, 1998. The use of saline water for irrigation of olives. Proc. Intern. Seminar on Olive Growing, C.O.I., pp. 104-110.
3. **Chartzoulakis K.**, 2002. Irrigation of Olives – Crop requirements and water quality. *Agriculture & Animal Husbandry* 7: 46-55
4. **Chartzoulakis K.**, 2003. Innovative irrigation practices in arid regions. In: ‘Water in Mediterranean Islands: Advanced Study Course ‘SUSTAINIS’ M. Lanng, D. Poszing, A. Herrmann (Eds), ZUFO-Berichte, pp. 327-346.
5. **Chartzoulakis K.**, 2003. Irrigation scheduling and water quality for agriculture. In: ‘Water in Mediterranean Islands: Advanced Study Course ‘SUSTAINIS’ M. Lanng, D. Poszing, A. Herrmann (Eds), ZUFO-Berichte, pp 383-394.
6. **Chartzoulakis K.**, Psarras G. and Moutsopoulou M., 2004. Application of olive mill wastewater (OMW) to olive orchards. *Inter. Water and Irrigation* 24(4): 34-38.