CURRICULUM VITAE

Family name First name Marital status Date of birth	: Tsialtas : Ioannis : Married : 13 January 1971
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Studies

- 1. **1988-1993**, **BSc**, Aristotle University of Thessaloniki (AUTH), School of Agriculture, Faculty of Crop Production [**Excellent**, **8.73/10.00**].
- 2. **1996-2000**, **PhD** in 'Plant Ecology', Aristotle University of Thessaloniki (AUTH), School of Agriculture, [**Excellent**].

Academic honours

- 1989-1993, scholar of State Scholarship Foundation for undergraduate studies (1st, 2nd, 3rd, 4th years of study) due to high records.
- 2. 1996-2000, scholar of State Scholarship Foundation for Ph.D. thesis elaboration.
- 3. **1997-1999**, scholar of AUTH Legacy Bureau, (K. Lazarides legacy) for PhD thesis elaboration. Scholarship is given due to high undergraduate record.

Pedagogic training

1999-2000, post-graduate training in pedagogics, Higher School of Pedagogical & Technological Education of Thessaloniki [**Excellent**, **9.00/10.00**].

Trainings-Seminars

- **17-22 August 2000**, 3rd International Crop Science Congress (ICSC) "Meeting Future Human Needs", Hamburg, Germany participation in **Master Classes**:
 - 1. Turner, N. C. "Stress in Crops and & Cropping Systems", 18th August.
 - 2. Connor, D. "Diversity in Agro-Ecosystems", 19th August.
 - 3. Janick, J. "Designing Crops and Cropping Systems for the Future", 21rd August.
 - 4. Cassman, K. G. "Facing the Growing Needs of Mankind", 22nd August.
- **10-14 June 2002**, training mission of Hellenic Sugar Industry SA at SES EUROPE NV/SA, Tienen, Belgium and Belgian Institute of Sugar Beet Research (IRBAB/KBIVB), regarding sugar beet seed production.
- **6-16 April 2009**, Research Associate Program at International Cotton Advisory Committee entitled "Sustainable Cotton Production" taken place at Washington DC, New York, North and South Carolina.

Work experience

• September 1993-June 1994, AUTH Research Committee as agriculturist-researcher in research program entitled "Radioecology of Seminatural Ecosystems" and funded by CEC Radiation Protection Program of the Commission of the European Community.

- October 1997-February 2004, external teacher, Technological Educational Institute of Western Macedonia, Branch of Florina, Department of Crop Production.
- April 1998- September 1998, AUTH Research Committee as agriculturist-researcher in research program entitled "Species competition and coexistence in acidic grasslands of Northern Greece" and funded by General Secretariat of Research and Technology.
- October 1998-January 1999, National Agriculture Research Foundation (NAGREF)-Agricultural Research Center of Macedonia & Thrace as agriculturist.
- 9 July 2001-21 June 2007, Head of the Department of Experimentation, Hellenic Sugar Industry SA, Larissa & Plati factories.
- April 2002-February 2005, external teacher, Technological Educational Institute of Larissa, Department of Crop Production.
- 2003-2004, lecturer, University of Thessaly, Department of Biochemistry & Biotechnology.
- 2004-2005, lecturer, University of Thessaly, Department of Agriculture, Crop Production & Rural Environment.
- 2007-2008, associated professor, University of Thessaly, Department of Agriculture, Crop Production & Rural Environment.
- 22 June 2007-8 August 2010, associated researcher, Cotton & Industrial Plants Institute-NAGREF.
- 9 August 2010-3 February 2011, associated researcher, Cereal Institute-NAGREF.
- **4 February 2011-today**, Lab. of Agronomy, School of Agriculture, AUTH (Professor since August 2023).
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Teaching experience

Aristotle University of Thessaloniki (AUTH)

Undergraduate level

- 1. 2014-today: Teaching and practice on " Cereals-Legumes" (N501Y) and "Industrial Plants" (N520E).
- 2. 2015-today: students' supervision of summer practice (N700Y)
- **3.** 2011-2014: Co-teaching and practice on "Field Crops I-Cereals-Legumes" (N501Y) and "Field Crops II-Industrial Plants" (N520E).
- **4.** 2011-2015: Summer practice on **Cereals-Legumes** and **Industrial Plants** to students of the fourth year of studies.
- 5. 2003 & 2004, invited speaker, delivered a 2-hour lecture entitled "*Sugar beet machine harvesting*" in the context of "Field Crops II-Industrial Plants" course.

Postgraduate level

- 1. 2011-2018: Co-teaching of "Applied Field Physiology" (BAZN708) and "Integrated Crop Production" (BAZN715) courses.
- **2.** 2018-today: Co-teaching of "**Plant and Crop Physiology**" (AKA803E) and "**Integrated Crop Production and Climate Change**" (AKA823E) courses.
- **3.** 2007-2008 & 2008-2009, invited speaker, delivered a 2-hour lecture entitled "*Physiology of sucrose storage in sugar beet roots*" in the context of "**Applied Field Physiology**" course.

University of Thessaly (UTH) Undergraduate level

- 1. 2003-2004, invited speaker, delivered two lectures (6 hours in total) entitled "Sugar beet crop" in the context of "Field Crops II-Industrial Plants" course, Department of Agriculture, Crop Production & Rural Environment.
- **2.** 2003-2004, **Lecturer**, teaching and practice on "**Plant Physiology**", *Department of Biochemistry & Biotechnology*.
- **3.** 2004-2005, Lecturer, Co-teaching and practice on "Field Crops I-Cereals-Legumes" and "Field Crops II-Industrial Plants", *Department of Agriculture, Crop Production & Rural Environment.*
- **4.** 2007-2008, **Assistant Professor**, practice on "**Plant Physiology**", *Department of Agriculture, Crop Production & Rural Environment*.

Postgraduate level

- 1. 2002-2003 & 2003-2004, invited speaker, delivered a 2-hour lecture entitled "Sugar beet Crop" in the context of "Special Issues on Field Crops and Energy Plants" course.
- 2. 2004-2005, invited speaker, delivered a 2-hour lecture per topic "Sugar beet Reasearch Priorities at Local and Global Level" "Agronomic Factors Affecting Sugar beet Root Quality" and in the context of "Special Issues on Field Crops and Energy Plants" course.
- **3.** 2007-2008 & 2006-2007, invited speaker, delivered a 3-hour lecture entitled "*Use of Stable Carbon and Nitrogen Isotopes in Physiological and Agronomic Research*" in the context of "**Advances Plant Physiology**" course.

Democritus University of Thrace (DUTH)

Postgraduate level

1. 2007-2008, invited speaker, delivered a 3-hour lecture entitled "Use of Stable Carbon Isotopes in Breeding of C₃ Crops with Emphasis on Cereals" in the context of "Sustainable Management of Genetic Resources" course.

Technological Education Institutes (TEI)

- 1. October 1997–February 2004, teaching personnel, *Department of Plant Production and Department of Marketing & Quality Control of Agricultural Products*, Branch of Florina, TEI of Western Macedonia.
- **2.** April 2002-February 2005, teaching personnel, *Department of Plant Production* TEI of Larissa.

University of Thessaly

1. Member of the **steering committee** in **one** (1) PhD and **three** (3) MSc theses (all completed).

Use of scientific instruments and devices

- **1.** As Head of Department of Experimentation-Hellenic Sugar Industry SA/Larissa factory organized and equipped the **Field Crop Physiology Laboratory** εργαστηρίου with:
 - **portable gas exchange system** *LC_i*, (ADC BioScientific Ltd, Hoddesdon, UK),
 - image analysis system WinDias, (Delta-T Devices Ltd, Cambridge, UK),
 - canopy analysis system SunScan, (Delta-T Devices Ltd, Cambridge, UK),
 - water potential measurement system WP 4, (Decagon Devices, Pullman, USA),
 - **nondestructive chlorophyll estimation instrument** SPAD-502, (Minolta Co Ltd, Osaka, Japan),

- Infrared thermometer (HI 99551 Hanna Instruments Inc, Woonsocket, Phode Island, USA).
- **2.** As Assistant Researcher in Cotton & Industrial Plants Institute became familiar with the use of:
 - **pressure chamber** for leaf water potential measurements (PMS model 610, PMS Instrument Co., Corvallis, Oregon, USA),
 - **portable gas exchange system** *LC*_{pro+}, (ADC BioScientific Ltd, Hoddesdon, UK).

Research programs-research experience

- 1. "Single-plant resource use efficiency and the investigation of the appropriate mycorrhizal inocula to boost grain productivity of corn genotypes". Coordinator for AUTh, 27 June 2018-27 June 2021, funded by Partnership Agreement 2014-2020.
- 2. "Field trials of indigenous bacteria strains to assess their inoculation efficacy in soybean". Coordinator, 15 May 2016-31 January 2017, funded by PIONEER HI-BRED HELLAS SA.
- 3. "Effectiveness of soybean inoculation with commercial and domestic strains of rhizobia". Coordinator, 16 June 2015-31 January 2016 and member of the research team, 15 May 2014-31 January 2016, funded by PIONEER HI-BRED HELLAS SA.
- 4. "Evaluation of annual *Datura* genotypes as a potential source of alkaloids and oil for biodiesel production". Coordinator, 5 April 2013-4 April 2014, funded by Research Committee of AUTH.
- 5. "Ag-Celence: effects of pyraclostrobin on sunflower physiology, yield, quality and disease control". Coordinator, 20 February 2012-31 December 2012 and 4 April 2013-31 December 2013, funded by BASF Hellas.
- 6. "Use of N-Tester for studying the impact of N fertilization on physiological and agronomic traits of upland cotton". Member of the research team, 17 June 2011-17 November 2011, funded by YARA HELLAS SA.
- 7. "Surveying and solving problems related with agronomic practice of oilseed crops in central Macedonia". Member of the research team, 1 November 2011-31 October 2012, funded by FytoEnergeia SA.
- 8. "Ag-Celence: effects of pyraclostrobin on durum wheat physiology, yield, quality and disease control". Member of the research team, 20 December 2010-31 July 2011 and 14 February 2012-31 December 2012, funded by BASF Hellas.
- **9.** Assistant Researcher, National Agricultural Research Foundation-Cotton & Indutrial Plants Institute, worked on field evaluation of upland cotton accessions for yield and quality as related with physiological traits and potassium (K) effects.
- **10. Head of the Department of Experimentation**, Hellenic Sugar Industry, Larissa factory responsible to direct the research programs and applied projects, which related with field evaluation of sugar beet cultivars and varieties, N fertilization effects on sugar beet yield and quality, seasonal growth of sugar beets as related with climatic conditions, abiotic factors and cultivar variation related with sugar beet re-growth, genotypic evaluation of sweet sorghum, oilseed rape, safflower, sunflower and winter wheat, sugar beet applied fertilization recommendations based on soil analyses, monitoring in-season N nutrition of sugar beets using petiole NO₃-N assessments.
- 11. "Selection for yield and study of carbon isotope discrimination-yield relationships in common bean (*Phaseolus vulgaris* L.) under absence of

competition". **Member of the research team**, funded by TEI of Western Macedonia (2006-2008).

- 12. "Studying the relationships between leaf carbon isotope discrimination and ash content with quantitative traits to exploit intracultivar variation in upland cotton". Member of the research team, 1 December 2004-31 December 2006, Democritus University of Thrace, Department of Rural Development, was funded by General Secreteriat of Research and Technology in the context of "PYTHAGORAS II" research program.
- 13. "Development-use of selection tools and evaluation of sugar beet genetic material under thermal and drought stress". Expertised researcher, 1 July 2001-30 June 2003, Hellenic Sugar Industry SA-Genetic Devlopment & Biotechnology Service, was funded by General Secreteriat of Research and Technology in the context of "PAVET 00" research program.
- 14. Selection for yield and study of carbon isotope discrimination-yield relationships in bread wheat (*Triticum aestivum* L.) under absence of competition". Member of the research team, October 1998-July 2002 funded by TEI of Western Macedonia.

Other activities

- **1. Member of the Technical Committee on Genetic Material**, Ministry of Rural Development & Food (2010).
- **2. External evaluator of research proposals** submitted for funding in **General Secreteriat of Research and Technology** in the context of "SYNERGASIA" research program (2010).
- **3. External evaluator of a research proposals** submitted for funding in **ARIMNet2** in the context of FP7 (EU), August 2015.

Synopsis of published works

89 papers in **indexed journals** (SCI)

- 15 papers in international journals after reviewing
- 3 papers in national journals after reviewing
- 12 papers in proceedings of international congresses
- 2 abstract in proceedings of international congresses
- 28 papers in proceedings of national congresses
- 12 abstracts in proceedings of national congresses
- 1 book (in Greek)

Citations

1300 citations by others in **SCI journals**

Reviewer in international journals

- Acta Agriculturae Scandinavica, Section B-Plant Soil Science
- Acta Physiologiae Plantarum
- Advances in Crop Sciences and Technology
- African Journal of Agricultural Research
- Agricultural and Food Science
- Agronomy Journal
- American Journal of Plant Sciences
- Annals of Applied Biology
- Archives of Agronomy and Soil Science
- Australian Journal of Crop Science

- Biochemical Systematics and Ecology
- Computers and Electronics in Agriculture
- Crop and Pasture Science
- Crop Protection
- Crop, Forage and Turfgrass Management
- Environment, Development and Sustainability
- Environmental and Experimental Botany
- Environmental Processes
- Environmental Science and Pollution Research
- Euphytica
- Experimental Agriculture
- Fresenius Environmental Bulletin
- HortScience
- International Journal of Biometeorology
- International Journal of Plant Production
- ISRN Agronomy
- Journal of Agricultural Science and Technology
- Journal of Agronomy
- Journal of Agronomy and Crop Science
- Journal of Biological Research-Thessaloniki
- Journal of Environmental Management
- Journal of Forestry Research
- Journal of Herbs, Spices & Medicinal Plants
- Journal of Sugar Beet Research
- Journal of Vegetation Science
- Pakistan Journal of Biological Sciences
- Pakistan Journal of Botany
- Pedobiologia
- Photosynthetica
- Plant and Soil
- Plant Disease Note
- Plant Ecology
- Research Journal of Environmental Sciences
- Saudi Journal of Biological Sciences
- Scientia Agricola
- Scientia Horticulturae
- Spanish Journal of Agricultural Research
- Sugar Tech
- World Journal of Agricultural Sciences

Publications

Papers in indexed journals

- 1. Veresoglou, D.S., J.T. Tsialtas, N. Barbayiannis and G.C. Zalidis. 1995. Caesium and strontium uptake by two pasture plant species grown in organic and inorganic soils. *Agriculture, Ecosystems & Environment 56:37-42*.
- Tsialtas, J.T., L.L. Handley, M. Kassioumi, D.S. Veresoglou and A.A. Gagianas.
 2001. Interspecific variation in potential water-use efficiency and its relation to plant species abundance in a water-limited grassland. *Functional Ecology* 15:605-614.

- Tsialtas, J.T., I. Tokatlidis, E. Tamoutsidis and I. Xinias. 2001. Grain carbon isotope discrimination and ash content of bread wheat individual plants of cv. Nestos selected for high and low yield in absence of competition. *Cereal Research Communications* 29:391-396.
- 4. Tsialtas, J.T., M. Kassioumi and D.S. Veresoglou. 2002. Evaluating leaf ash content and potassium concentration as surrogates of carbon isotope discrimination in grassland species. *Journal of Agronomy and Crop Science 189:168-175*.
- 5. Tsialtas, J.T., M. Kassioumi and D.S. Veresoglou. 2002. Leaf construction cost of the most abundant species in an upland grassland area of northern Greece. *Russian Journal of Plant Physiology* 49:360-363.
- 6. Tsialtas, J.T., T. Matsi, N. Barbayiannis, A. Sdrakas and D.S. Veresoglou. 2003. Strontium absorption by two *Trifolium* species as influenced by soil characteristics and liming. *Water, Air and Soil Pollution 144:363-373*.
- 7. Tsialtas, J.T. and D.A. Karadimos. 2003. Leaf carbon isotope discrimination and its relation with root qualitative traits and harvest index in sugar beet (*Beta vulgaris* L.). *Journal of Agronomy and Crop Science 189:286-290.*
- 8. Tokatlidis, I.S., J.T. Tsialtas, I.N. Xynias, E. Tamoutsidis and M. Irakli. 2004. Variation within a bread wheat cultivar for grain yield, protein content, carbon isotope discrimination and ash content. *Field Crops Research 86:33-42*.
- **9.** Tsialtas, J.T., M.T. Kassioumi and D.S. Veresoglou. 2004. Seasonal changes of N₂-fixation by *Trifolium repens* in an upland Mediterranean grassland. *European Journal of Agronomy 21:335-346.*
- 10. Tsialtas, J.T., T.S. Pritsa and D.S. Veresoglou. 2004. Leaf physiological traits and their importance for species success in a Mediterranean grassland. *Photosynthetica* 42:371-376.
- Tsialtas, J.T., M.T. Kassioumi and D.S. Veresoglou. 2005. Effects of competition and N and P supply on carbon isotope discrimination and ¹⁵N-natural abundance in four grassland species. *Biologia Plantarum 49:133-136*.
- 12. Tsialtas, J.T. and N. Maslaris. 2005. Effect of N fertilization rate on sugar yield and non-sugar impurities of sugar beets (*Beta vulgaris*) grown under Mediterranean conditions. *Journal of Agronomy and Crop Science 191:330-339*.
- 13. Tsialtas, J.T. and N. Maslaris. 2005. Leaf area estimation in a sugar beet cultivar by linear models. *Photosynthetica* 43:477-479.
- 14. Tsialtas, J.T., I.S. Tokatlidis, E. Tamoutsidis and I. Xynias. 2005. Relationship of grain yield with carbon isotope discrimination and ash content in lines derived from a bread wheat cultivar. *Journal of Agricultural Science 143:275-282*.
- 15. Tokatlidis, I.S., I.N. Xynias, J.T. Tsialtas and I.I. Papadopoulos. 2006. Single-plant selection at ultra-low density to improve stability of a bread wheat cultivar. *Crop Science 46:90-97.*
- 16. Tsialtas, J.T. and N. Maslaris. 2006. Leaf carbon isotope discrimination relationships to element content in soil, roots and leaves of sugar beets grown under Mediterranean conditions. *Field Crops Research 99:125-135*.
- **17.** Tsialtas, J.T. and N. Maslaris. 2007. Leaf shape and its relationship with Leaf Area Index in a sugar beet (*Beta vulgaris* L.) cultivar. *Photosynthetica* 45:527-532.
- **18.** Tsialtas, J.T. and N. Maslaris. **2008.** Leaf area prediction model for sugar beet (*Beta vulgaris* L.) cultivars. *Photosynthetica* **46:291-293.**
- **19. Tsialtas, J.T.** and N. Maslaris. **2008.** Evaluation of a leaf area prediction model proposed for sunflower. *Photosynthetica* **46:294-297.**

- **20.** Tsialtas, J.T., I.S. Tokatlidis, C. Tsikrikoni and A.S. Lithourgidis. 2008. Leaf carbon isotope discrimination, ash content and K relationships with seedcotton yield and lint quality in lines of *Gossypium hirsutum* L. *Field Crops Research 107:70-77*.
- Tokatlidis, I.S., C. Tsikrikoni, J.T. Tsialtas, A.S. Lithourgidis and P.J. Bebeli. 2008. Variability within cotton cultivars for yield, fibre quality and physiological traits. *Journal of Agricultural Science* 146:483-490.
- 22. Tsialtas, J.T. and N. Maslaris. 2008. Nitrogen fertilization effects on leaf morphology and evaluation of leaf area and LAI prediction models in sugar beet. *Photosynthetica* 46:346-350.
- 23. Tsialtas, J.T. and N. Maslaris. 2008. Leaf allometry and prediction of specific leaf area (SLA) in a sugar beet (*Beta vulgaris* L.) cultivar. *Photosynthetica* 46:351-355.
- 24. Koundouras, S., J.T. Tsialtas, E. Zioziou and N. Nikolaou. 2008. Rootstock effects on the adaptive strategies of grapevine (*Vitis vinifera* L. cv Cabernet-Sauvignon) under contrasting water status: physiological and anatomical responses. *Agriculture, Ecosystems & Environment 128:86-96.*
- **25.** Tsialtas, J.T., S. Koundouras and E. Zioziou. **2008.** Leaf area estimation by simple measurements and evaluation of leaf area prediction models in 'Cabernet-Sauvignon' grapevine leaves. *Photosynthetica* 46:452-456.
- 26. Tsialtas, J.T. and N. Maslaris. 2008. Sugar beet response to N fertilization as assessed by late season chlorophyll and Leaf Area Index measurements in a semi-arid environment. *International Journal of Plant Production 2:57-70*.
- 27. Tsialtas, J.T. and N. Maslaris. 2008. Seasonal trends and relationships of light, temperature and leaf physiological traits of sugar beets grown under semi-arid, Mediterranean conditions. *International Journal of Plant Production 2:223-242*.
- Tziros, G.T., G.A. Bardas, J.T. Tsialtas and G.S. Karaoglanidis. 2008. First report of oilseed rape stem rot caused by *Sclerotinia sclerotiorum* in Greece. *Plant Disease* 92:1473.
- 29. Samaras, V., C.D. Tsadilas and J.T. Tsialtas. 2009. Use of treated wastewater as fertilization and irrigation amendment in pot-grown processing tomatoes. *Journal of Plant Nutrition* 32:741-754.
- **30.** Tsialtas, J.T. and N. Maslaris. **2009.** Selective absorption of K over Na in sugar beet cultivars and its relationship with yield and quality in two contrasting environments of central Greece. *Journal of Agronomy and Crop Science 195: 384-392.*
- **31. Tsialtas, J.T.,** E. Soulioti, N. Maslaris and D. Papakosta. **2009.** Genotypic response to re-growth of defoliated sugar beets after re-watering in a water-limited environment: effects on yield and quality. *International Journal of Plant Production 3:1-18.*
- **32.** Maliogka, V.I., **J.T. Tsialtas,** A. Papantoniou, K. Efthimiou and N.I. Katis. **2009.** First report of a phytoplasma associated with an oilseed rape disease in Greece. *Plant Pathology* **58:792.**
- 33. Koundouras, S., E. Hatzidimitriou, M. Karamolegkou, E. Dimopoulou, S. Kallithraka, J.T. Tsialtas, E. Zioziou, N. Nikolaou and Y. Kotseridis. 2009. Irrigation and rootstock effects on the phenolic concentration and aroma potential of Vitis vinifera L. cv Cabernet Sauvignon grapes. *Journal of Agricultural and Food Chemistry* 57:7805-7813.
- 34. Tsialtas, J.T., T. Matsi and N. Maslaris. 2010. Plasticity of leaf anatomy, chemistry and water economy of irrigated sugar beets grown under Mediterranean conditions. *International Journal of Plant Production 4:99-114*.

- **35.** Maslaris, N., **J.T. Tsialtas** and T. Ouzounidis. **2010.** Soil factors affecting yield, quality, and response to nitrogen of sugar beets grown on light-textured soils in northern Greece. *Communications in Soil Science and Plant Analysis 41:1551-1564.*
- **36.** Tsialtas, J.T. and N. Maslaris. **2010.** Sugar beet root shape and its relation with yield and quality. *Sugar Tech* 12:47-52.
- Tokatlidis, I.S., C. Tsikrikoni, A.S. Lithourgidis, J.T. Tsialtas and C. Tzantarmas.
 2011. Intra-cultivar variation in cotton: response to single-plant yield selection at low density. *Journal of Agricultural Science 149:197-204.*
- **38. Tsialtas, J.T.,** I.I. Papadopoulos, E.G. Tamoutsidis and I.S. Tokatlidis. **2011.** Relationships of grain carbon isotope discrimination (Δ) and ash content with yield and quality in dry bean. *Journal of Agricultural Science 149:273–281.*
- **39.** Tsialtas, J.T., E. Soulioti, N. Maslaris and D. Papakosta. **2011.** Effect of defoliation on leaf physiology in sugar beet cultivars subjected to drought stress and re-watering. *International Journal of Plant Production 5:207-220.*
- 40. Bakhshandeh, E., B. Kamkar and J.T. Tsialtas. 2011. Application of linear models for estimation of leaf area in soybean (*Glycine max* (L.) Merr). *Photosynthetica* 49:405-416.
- **41. Tsialtas, J.T.** and I.G. Eleftherohorinos. **2011.** First report of branched broomrape (*Orobanche ramosa* L.) on oilseed rape (*Brassica napus* L.), wild mustard (*Sinapis arvensis* L.) and wild vetch (*Vicia* spp.) in northern Greece. *Plant Disease 95: 1322.*
- 42. Tsialtas, J.T. and N. Maslaris. 2012. Tracing nitrogen in soil-root-petiole-leaf continuum in sugar beets: Can SPAD-502 help? *Journal of Plant Nutrition* 35:556-566.
- **43.** Tsialtas, J.T. and N. Maslaris. 2012. Leaf physiological traits and their relation with sugar beet cultivar success in two contrasting environments. *International Journal of Plant Production 6:15-36.*
- 44. Lotos, L., J.T. Tsialtas, V.I. Maliogka, N. Kaloumenos, I.G. Eleftherohorinos and N.I. Katis. 2013. First report of a "Candidatus Phytoplasma solani" related strain associated with a disease of *Datura stramonium* in Greece. *Journal of Plant Pathology 95:447.*
- 45. Ninou, E., J.T. Tsialtas, C.A. Dordas and D.K. Papakosta. 2013. Effect of irrigation on the relationships between leaf gas exchange related traits and yield in dwarf dry bean grown under Mediterranean conditions. *Agricultural Water Management* 116:235-241.
- 46 Tsialtas, I.T., V. Michelsen and D.S. Koveos. 2013. First report of *Botanophila turcica* (Diptera: Anthomyidae) on cultivated safflower *Carthamus tinctorius* L. in Greece. *Journal of Biological Research-Thessaloniki* 19:80-82.
- **47. Tsialtas, J.T.** and N. Maslaris. **2013.** Nitrogen effects on yield, quality and K/Na selectivity of sugar beets grown on clays under semi-arid, irrigated conditions. *International Journal of Plant Production 7:355-372.*
- **48.** Papantoniou, A.N., **J.T. Tsialtas** and D.K. Papakosta. **2013.** Dry matter and nitrogen partitioning and translocation in winter oilseed rape (*Brassica napus* L.) grown under rainfed Mediterranean conditions. *Crop and Pasture Science* **64**:115-122.
- **49. Tsialtas, J.T.,** D. Baxevanos and N. Maslaris. **2014.** Chlorophyll meter readings, leaf area index, and their stability as assessments of yield and quality in sugar beet cultivars grown in two contrasting environments. *Crop Science* **54**:265-273.
- **50.** Tsialtas, J.T. and N. Maslaris. **2014.** The effect of temperature, water input and length of growing season on sugar beet yield in five locations in Greece. *Journal of Agricultural Science* 152:177-187.

- **51. Tsialtas, I.T.,** E. Patelou, N.S. Kaloumenos, P.V. Mylona, A. Polidoros, G. Menexes and I.G. Eleftherohorinos. **2014.** In the wild hybridization of annual *Datura* species as unveiled by morphological and molecular comparisons. *Journal of Biological Research-Thessaloniki 21:11.*
- **52.** Tsialtas, J.T., S. Shabala and T. Matsi. **2016**. A prominent role for leaf calcium as a yield and quality determinant in upland cotton (*Gossypium hirsutum* L.) varieties grown under irrigated Mediterranean conditions. *Journal of Agronomy and Crop Science* 202:161-173.
- **53.** Theologidou, G., **J.T. Tsialtas,** N. Kaloumenos and I.G. Eleftherohorinos. **2016.** From Petri dish to field: testing Greek lentil accessions for imazamox tolerance. *International Journal of Plant Production 10:265-274.*
- **54. Tsialtas, I.T.,** S. Shabala, D. Baxevanos and T. Matsi. **2016.** Effect of potassium fertilization on leaf physiology, fiber yield and quality in cotton (*Gossypium hirsutum* L.) under irrigated Mediterranean conditions. *Field Crops Research* **193:94-103.**
- **55.** Tsialtas, I.T., S. Shabala, D. Baxevanos and T. Matsi. 2017. Cation selectivity in cotton (*Gossypium hirsutum* L.) grown on calcareous soil as affected by potassium fertilization, cultivar and growth stage. *Plant and Soil 415:331-346*.
- **56.** Baxevanos, D., E. Korpetis, M. Irakli and **I.T. Tsialtas. 2017.** Evaluation of a durum wheat selection scheme under Mediterranean conditions: adjusting trial locations and replications. *Euphytica 213:82*.
- **57. Tsialtas, I.T.,** G.S. Theologidou and G.S. Karaoglanidis. **2017.** Effect of pyraclostrobin on disease control, leaf physiology, seed yield and quality of sunflower. *Crop Protection 99:151-159.*
- 58. Tsialtas, I.T., A.N. Papantoniou, T. Matsi and D.K. Papakosta. 2017. Leaf gas exchange physiology and ion homeostasis of oilseed rape (*Brassica napus* L.) under Mediterranean conditions: associations with seed yield and quality. Agriculture, *Ecosystems & Environment* 247:225-235.
- **59.** Baxevanos, D., **I.T. Tsialtas,** D.N. Vlachostergios, I. Hadjigeorgiou, C. Dordas and A. Lithourgidis. **2017.** Cultivar competitiveness in pea-oat intercrops under Mediterranean conditions. *Field Crops Research 214:94-103.*
- 60. Baxevanos, D., J.T. Tsialtas, D. Vlachostergios and C. Goulas. 2017. Optimum replications and locations for cotton cultivar trials under Mediterranean conditions. *Journal of Agricultural Science 155: 1553-1564.*
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Research interests

- **1.** Use of stable C isotopes for studying the water use efficiency variation in C_3 plant species.
- 2. Use of stable N isotopes for studying the N cycling focusing on symbiotic N₂-fixation.
- 3. Soil-plant relationships and their effects on yield and quality of field crops.
- **4.** Physiology from leaf to plant community level and its relationship with yield and quality of field crops.
- **5.** Water relations and water stress tolerance.
- **6.** Yield and quality of winter cereals and legumes, pasture plants, sugar beets, cotton and oil crops.
- **7.** Evaluation of wild relatives as industrial crops.