



## **Curriculum Vitae**

**Dr. Anestis Karkanis**

**Associate Professor of Weed Science**

*University of Thessaly*

*Department of Agriculture Crop Production and Rural Environment*

**Volos**

## 1. Personal Data

**Family Name:** Karkanis

**First Name:** Anestis

**Date of Birth:** 21-03-1980

**Nationality:** Greek

**Address:** Laboratory of Weed Science, Department of Agriculture Crop Production and Rural Environment, University of Thessaly, Fytokoy St., 38446, Volos, Magnisia, Greece.

**e-mail:** [akarkanis@uth.gr](mailto:akarkanis@uth.gr), [anekark80@yahoo.gr](mailto:anekark80@yahoo.gr), **Tel:** +30-2421-093135.

Military obligations fulfilled.

**Present Position:** Associate Professor of Weed Science, Department of Agriculture Crop Production and Rural Environment, University of Thessaly, N. Ionia, Volos, Greece.

## 2. Academic Qualifications

**1997-2002: Degree in Agriculture.** Department of Crop Science, Agricultural University of Athens.

**2002-2003: MSc in Field Crops and Plant Breeding.** Department of Crop Science, Agricultural University of Athens.

**2004-2007: PhD in Weed Science.** Department of Crop Science, Agricultural University of Athens.

**03/2010:** I was elected as Lecturer of Weed Science in the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

**09/2016:** I was elected as Assistant Professor of Weed Science in the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

**08/2021:** I was elected as Associate Professor of Weed Science in the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

### **3. Main Research interests**

- ✓ Weed biology.
- ✓ Crop-weed interactions.
- ✓ Weed management in field crops and vegetables.
- ✓ Integrated weed management.
- ✓ Herbicide-resistant weeds and their management.
- ✓ Weeds with nutritional and medicinal value.

### **4. Scholarships-Awards**

1. Scholarships during two years (1999-2000 and 200-2001) of my undergraduate studies in Agricultural University of Athens given by Greek State Scholarships Foundation.
2. Scholarship from the Greek State Scholarships Foundation for 3 years PhD studies (2004-2007).

### **5. Language Skills**

- Greek (mother language)
- English (Certificate of Lower in English, December 2003, University of Cambridge).

### **6. Computer Literacy**

Skillful use of:

- Statgraphics,
- MS Word, MS Excel, MS Access, MS Power Point, MS Internet Explorer & Outlook Express and MS Windows XP (Certificate ECDL: European Computer Driving Licence).

## **7. Professional Experience**

**8/2002-9/2002:** Agronomist at Agricultural Cooperative of «Oropedio teos limni Xianados»

**3/2009-7/2009:** Agronomist at OPEKEPE (Opekepe is the Greek Payment Authority of Common Agricultural Policy).

**01/09/2010 έως 31/08/2011:** Teaching of undergraduate courses in the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

**15/10/2011 έως 15/07/2012:** Teaching of undergraduate courses in the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

**01/03/2013 έως 15/07/2013:** Teaching of undergraduate courses in the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

**18/12/2013-29/12/2016:** Lecturer of Weed Science, Department of Agriculture Crop Production and Rural Environment, University of Thessaly, Greece.

**30/12/2016-13/02/2022:** Assistant Professor of Weed Science, Department of Agriculture Crop Production and Rural Environment, University of Thessaly, Greece.

**14/02/2022-present:** Associate Professor of Weed Science, Department of Agriculture Crop Production and Rural Environment, University of Thessaly, Greece.

## **8. Administrative Experience**

Member in 65 committees of the Department of Agriculture Crop Production and Rural Environment, University of Thessaly.

## **9. Academic Activities**

### **i. Teaching in:**

- ✓ **Undergraduate Studies**

Academic Year	Course Title	Semester	University
2010-2011	Weed biology and ecology	9 <sup>th</sup>	Department of Agriculture Crop Production and Rural Environment, University of Thessaly
	Plant Morphology and Anatomy	2 <sup>nd</sup>	
2011-2012	Plant Physiology	5 <sup>th</sup>	
	Plant Morphology and Anatomy	2 <sup>nd</sup>	
	Weed Science	6 <sup>th</sup>	
2012-2013	Weed Science	6 <sup>th</sup>	
2013-2014	Weed Science	6 <sup>th</sup>	
2014-2015	Agriculture Pharmacology	9 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
2015-2016	Agriculture Pharmacology	9 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
2016-2017	Agriculture Pharmacology	9 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
2017-2018	Agriculture Pharmacology	7 <sup>th</sup> , 9 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
2018-2019	Agriculture Pharmacology	7 <sup>th</sup>	

	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2019-20</b>	Agriculture Pharmacology	7 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2020-21</b>	Agriculture Pharmacology	7 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2021-22</b>	Agriculture Pharmacology	7 <sup>th</sup>	
	Weed Science	6 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2022-23</b>	Weed Science	5 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2023-24</b>	Weed Science	5 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2024-25</b>	Weed Science	5 <sup>th</sup>	
	Systematic Botany	4 <sup>th</sup>	
<b>2025-26</b>	Weed Science	5 <sup>th</sup>	

✓ **Postgraduate studies**

Academic Year	Course Title	Semester	University
<b>2011-2012</b>	Weed and herbicide management	1 <sup>st</sup>	

<b>2012-2013</b>	Weed and herbicide management	1 <sup>st</sup>	Department of Agriculture Crop Production and Rural Environment, University of Thessaly
<b>2012-2013</b>	Weed biology, ecology and management	2 <sup>nd</sup>	
<b>2013-2014</b>	Weed management	2 <sup>nd</sup>	
<b>2014-2015</b>	Protocols and Programs in Plant Protection	1 <sup>st</sup>	
<b>2014-2015</b>	Weed management	2 <sup>nd</sup>	
<b>2015-2016</b>	Protocols and Programs in Plant Protection	1 <sup>st</sup>	
<b>2015-2016</b>	Weed management	2 <sup>nd</sup>	
<b>2016-2017</b>	Protocols and Programs in Plant Protection	1 <sup>st</sup>	
<b>2016-2017</b>	Weed management	2 <sup>nd</sup>	
<b>2017-2018</b>	Protocols and Programs in Plant Protection	1 <sup>st</sup>	
<b>2017-2018</b>	Weed management	2 <sup>nd</sup>	
<b>2018-2019</b>	Weed Management	1 <sup>st</sup>	
<b>2019-20</b>	Weed Management	1 <sup>st</sup>	
<b>2020-21</b>	Protocols and Programs in Plant Protection	2 <sup>nd</sup>	
	Weed management	1 <sup>st</sup>	
<b>2021-22</b>	Weed management	1 <sup>st</sup>	
	Protocols and Programs in Plant Protection	2 <sup>nd</sup>	
	Special topics in Phytiatrics	2 <sup>nd</sup>	
<b>2022-23</b>	Protocols and Programs in Plant Protection	2 <sup>nd</sup>	
	Special topics in Phytiatrics	2 <sup>nd</sup>	

	Weed management	1 <sup>st</sup>	
<b>2023-24</b>	Weed management	1 <sup>st</sup>	
	Protocols and Programs in Plant Protection	2 <sup>nd</sup>	
	Special topics in Phytiatrics	2 <sup>nd</sup>	
<b>2024-2025</b>	Weed management	1 <sup>st</sup>	
	Protocols and Programs in Plant Protection	2 <sup>nd</sup>	
	Special topics in Phytiatrics	2 <sup>nd</sup>	
<b>2025-2026</b>	Weed management	1 <sup>st</sup>	

## ii. Supervised Students

Supervisor of:

- ✓ Forty (49) BSc dissertations
- ✓ Nine (13) MSc theses
- ✓ Two (2) Ph.D theses

## iii. Member of the student's advisory committee

Member of advisory and/or evaluation committee in:

- ✓ Eighty-five (113) BSc dissertations
- ✓ Twenty (26) MSc theses
- ✓ Twelve (12) Ph.D theses

## 10. Research Projects

1. Member of the research team in a project entitled “The position of Genetically Modified Plants in Greece” in the period from 12/05/2005 to 12/6/2015.
2. Member of the research team in an international research project funded by the 7<sup>th</sup> Research Framework Programme of the European Union (FP7, Project reference: 613781) entitled “EUROLEGUME: Enhancing of legumes growing in Europe through sustainable

- cropping for protein supply for food and feed”. Duration of the project: 1/11/2014 to 30/10/2015.
3. Coordinator of the project “Efficacy of post-emergence herbicides applied at reduced doses on wheat in durum wheat (*Triticum durum* L.) in central Greece” funded by the Research Committee of the University of Thessaly. Duration of the project: 21/01/2014 to 21/01/2015.
  4. Member of the research team in a research project funded by the company Barilla G & R Frattelli, SpA entitled «*Sustainable Grains*, Project Number: 5069». Duration of the project: 01/01/2015 to 31/12/2015.
  5. Member of the research team in a research project funded by the European Union entitled “*LIFE09 EN/GR/000296 Adapt to change, Adapt Agricultural production to climate change and limited water supply (Χρηματοδότηση Ευρωπαϊκή Ένωση)*”. Duration of the project: 01/08/2014 to 31/08/2016.
  6. Member of the research team in a research project funded by the European Union entitled “*Innovative ecofriendly traps for the control of Pine Lepidoptera in urban and recreational places (LIFE13 ENV/ES/000504, Χρηματοδότηση Ευρωπαϊκή Ένωση)*” Duration of the project: 01/01/2017 to 30/06/2017.
  7. Member of the research team of project entitled "Studies and other related research activities on pest, food safety and plant protection issues” having collaborated in the context of the following sub-projects:
    - ✓ Evaluation of new pesticides for cotton crop and investigation of cotton grower’s satisfaction in relation to modern plant protection and environmental protection.
    - ✓ Evaluation of fungicides efficacy in wheat crop.
  8. Member of the research team in a research project funded by the European Union entitled “*TRUE: Transition paths to sustainable legume based systems in Europe. Project Number: 727973 (Horizon 2020)*” Duration of the project: 1/10/2017 to 31/12/2020.
  9. Coordinator of the project “Evaluation of compatibility and efficacy of herbicides and fungicides in durum wheat crop (Project number: 5649)” funded by the BARILLA HELLAS. Duration of the project: 1/03/2019 to 31/10/2019.

10. Member of the research team in a research project entitled "VALORIZATION of Mediterranean small-scale FARMS by cropping wild UnExploited species, VALUEFARM" (Prima, Reference Number: 2019-SECTION2-28). Participation on the project: 16/09/2020 to 08/2023.

11. Member of the research team in a research project entitled "*High-Performance Industrial Materials based on Nanocellulose* (HIPERION)". Project number: 6912 (MIS: 5131353, Ministry of Development-General Secretariat for Research and Innovation)". Participation on the project: 03/2022 to 11/2023.

## **11. Membership in Chambers and Scientific Societies**

1. Geotechnical Chamber of Greece.
2. Weed Science Society of Greece.
3. European Weed Research Society.

## **12. Conferences**

I have participated in the following national and international conferences:

**2002:** 12<sup>th</sup> Conference of the Weed Science Society of Greece (1 paper).

**2004:** 10<sup>th</sup> Conference of the Hellenic Soil Science Society of Greece (2 papers).

**2006:** 14<sup>th</sup> Conference of the Weed Science Society of Greece (4 papers).

**2010:** 13<sup>th</sup> Conference of the Hellenic Soil Science Society of Greece (1 paper).

**2010:** 16<sup>th</sup> Conference of the Weed Science Society of Greece (2 papers).

**2011:** The 10th International Symposium "Prospects for the 3rd Millennium Agriculture. 29 September-1 October 2011, Cluj-Napoca, Romania (3 papers).

**2012:** 17<sup>th</sup> Conference of the Weed Science Society of Greece (2 papers).

**2014:** 6<sup>th</sup> Panhellenic Plant Protection Meeting (1 presentation).

**2014:** The 13th International Symposium "Prospects for the 3rd Millennium Agriculture. 25-27 of September 2014, Cluj-Napoca, Romania (2 papers).

**2014:** 17<sup>th</sup> Hellenic Phytopathological Congress (1 paper).

**2015:** 18<sup>th</sup> Conference of the Weed Science Society of Greece (3 paper).

**2015:** Workshop of the European Weed Science Society on Optimizing herbicide use in an Integrated Weed Management (IWM) context. Heraklion, Greece (2 paper).

**2015:** 14<sup>th</sup> International Symposium “Prospects for the 3rd Millennium Agriculture. 24<sup>th</sup>-26<sup>th</sup> of September 2015, Cluj-Napoca, Romania (2 papers).

**2015:** 27<sup>th</sup> Conference of Greek Association of Horticultural Science (EEEEO) (1 paper).

**2015:** International Symposium on New Technologies and Management for Greenhouses, GreenSys 2015. Evora, Portugal (1 paper).

**2016:** The III International Symposium on Organic Greenhouse Horticulture, Izmir, Turkey (1 paper).

**2017:** The 52<sup>nd</sup> Croatian and 12<sup>th</sup> International Symposium on Agriculture, February 12-17, 2017, Dubrovnik, Croatia (1 paper).

**2017:** The International Conference Plant Nutrition, Growth & Environment Interactions III. February 20-21, 2017, Vienna, Austria (1 paper).

**2017:** 19<sup>th</sup> Conference of the Weed Science Society of Greece (6 papers).

**2017:** International Symposium “40 YEARS OF HORTICULTURE EDUCATION”, Faculty of Horticulture, CLUJ-NAPOCA, Romania (1 paper).

**2017:** VIII International Scientific Agriculture Symposium, Jahorina (1 paper)

**2017:** 28<sup>th</sup> Conference of Greek Association of Horticultural Science (EEEEO) (4 papers).

**2018:** 7<sup>th</sup> Panhellenic Plant Protection Meeting, Larissa (1 presentation).

**2018:** Fifth International Symposium on Green Chemistry, Sustainable Development and Circular Economy, Skiathos, Greece (1 paper).

**2018:** 30<sup>th</sup> International Symposium on the Chemistry of Natural Products Athens, Greece (1 paper).

**2019.** 20<sup>th</sup> Conference of the Weed Science Society of Greece (7 papers).

**2019:** The 18<sup>th</sup> International Conference “LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT,” 26<sup>th</sup>-28<sup>th</sup> of September 2019, Cluj-Napoca, Romania (1 paper).

**2019:** 29<sup>th</sup> Conference of Greek Association of Horticultural Science (EEEE) (3 papers).

**2020:** The 19<sup>th</sup> International Conference “LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT,” 24<sup>th</sup>-25<sup>th</sup> of September 2020, Cluj-Napoca, Romania (1 paper).

**2021:** The 20<sup>th</sup> International Congress of the International Society for Ethnopharmacology (ISE). 18-20 April 2021 (held on Virtual Congress Platform, 1 paper).

**2021:** 20<sup>th</sup> International Conference "Life sciences for sustainable development". University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. 23-24 September 2021, Cluj-Napoca (1 paper).

**2022:** 19<sup>th</sup> European Weed Research Society Symposium. 20-23 June 2022, Athens, Greece. (2 papers).

**2022:** 30<sup>th</sup> Conference of Greek Association of Horticultural Science (EEEE) (1 paper).

**2022:** 18<sup>th</sup> Plant Breeding Congress of The Hellenic Scientific Society of Plant Genetics and Breeding (HSSPGB) (1 paper).

**2023:** 21<sup>th</sup> Conference of the Weed Science Society of Greece (5 papers).

**2023:** XIV International Agriculture Symposium "AGROSYM 2023 (3 papers).

**2023:** 31<sup>th</sup> Conference of Greek Association of Horticultural Science (EEEE) (2 paper).

**2023:** IX South-Eastern Europe Symposium on Vegetables and Potatoes. Bucharest, Romania (1 paper).

**2024:** I International Symposium on Protected Cultivation, Nettings and Screens for Mild Climates. September 23-26, 2024, Athens, Greece (2 εργασίες)

**2025:** 22<sup>nd</sup> Conference of the Weed Science Society of Greece, Arta, Greece (4 papers).

**2025:** 32<sup>nd</sup> Conference of Greek Association of Horticultural Science (EEEE), Volos, Greece (3 papers).

### 13. Other Activities

- ✓ Vice-President of the Weed Science Society of Greece, 2019 to 2021.
- ✓ Member of Administrative Board of the Weed Science Society of Greece, 2017-2019, 2021 to 13/11/2022.
- ✓ General Secretary of the Weed Science Society of Greece, 2015-2017.
- ✓ Member of industrial hemp advisory committee. Ministry of Reconstruction of Production, Environment and Energy (Ministerial act, ΑΔΑ:6ΤΨΘ465ΦΘΗ-ΙΨ3).

### 14. Presentations/Invited Talks

- ✓ *Integrated weed management in vegetables*. **Karkanis A.**, Efthimiadou A., and Bilalis D. 6<sup>th</sup> Panhellenic Plant Protection Meeting, Larissa, Greece, 24-27 February 2014.
- ✓ *Weed control in wheat crop*. **Karkanis A., 2015**. Workshop “Plant Protection and rational fertilization in wheat”. Nikaia, Thessaly, Greece. 29 October 2015. The workshop was held under the auspices of the Municipality of Kilerer.
- ✓ *Integrated weed management programs in vegetables*. **Anestis Karkanis**. 6<sup>th</sup> Panhellenic Plant Protection Meeting, Larissa, Greece, 5-8 March 2018.
- ✓ *Aromatic and medicinal native plants of Thessaly region*. **Anestis Karkanis**. Workshop «Rural Women». The workshop was held under the auspices of the Y.W.C.A. (Young Women's Christian Association) of Volos. Volos, 6 February 2019.
- ✓ *Weed management in pistachio and walnut*. **Anestis Karkanis**. Workshop for pistachio and walnut crops which organized by the Regional Center for Plant Protection, Quality and Phytosanitary Control of Volos and the Agricultural Cooperative of Stefanovikeio. Stefanovikeio, 7 February 2019.
- ✓ *Integrated weed management in field crops and orchards*. **Anestis Karkanis**. Workshop “Sustainable agriculture: a need for the environment and our children», Agrothessaly 2019-12<sup>th</sup> Pan-Hellenic Fair for Agriculture and Livestock. Larissa, 28 February 2019.

## 15. Publications

Published 84 papers in international peer-reviewed journals, 81 conference papers and 3 book chapters. Below, there is a list of the journal publications, conferences and book chapters.

### *List of Publications*

#### **A. Ph.D Thesis**

1. **Karkanis A., 2007.** Effect of irrigation and green manure on weed flora. Ph.D Thesis, Agricultural University of Athens, pp. 1-447, Athens.

#### **B. Publications in international peer reviewed journals**

*Note: Articles 1-10 published before the Election as Lecturer of Weed Science (March 2010).*

1. **Karkanis A., Bilalis D., Efthimiadou A., 2007.** Tobacco (*Nicotiana tabacum*) infection by branched broomrape (*Orobanche ramosa*) as influenced by irrigation system and fertilization, under East Mediterranean Conditions. *Journal of Agronomy*. 6(3): 397-402.
2. **Karkanis A., Bilalis D., Efthimiadou A., 2007.** The effect of green manure and irrigation on morphological and physiological characteristics of Virginia (flue-cured) organic tobacco (*Nicotiana tabacum*). *International Journal of Agricultural Research*. 2(11): 910-919.
3. Bilalis D., **Karkanis A., Efthimiadou A., Konstantas Ar., Triantafyllidis V., 2009.** Effects of irrigation system and green manure on yield and nicotine content of Virginia (Flue-cured) Organic tobacco (*Nicotiana tabacum*), under Mediterranean conditions. *Industrial Crops and Products*. 29(2-3): 388-394.
4. Efthimiadou A., **Karkanis A., Bilalis D., Efthimiadis P., 2009.** The phenomenon of crop-weed competition; a problem or a key for sustainable weed management? *Journal of Food Agriculture and Environment*. 7(2): 861-868.
5. Efthimiadou A., Bilalis D., **Karkanis A., Froud-Williams B., Eleftherochorinos I., 2009.** Effects of cultural system (organic and conventional) on growth, photosynthesis and yield

components of sweet corn (*Zea mays* L.), under semi-arid environment. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 37(2): 104-111.

6. Bilalis D., **Karkanis A.**, Efthimiadou A., **2009**. Effects of two legume crops on weed flora, under Mediterranean conditions: Competitive ability of five winter season weed species. *African Journal of Agricultural Research*. 4(12): 1431-1441.
  7. Bilalis D., Patsiali S., **Karkanis A.**, Konstantas A., Makris, M., Efthimiadou A., **2010**. Effects of cultural system (organic and conventional) on growth and fibre quality of two cotton (*Gossypium hirsutum* L.) varieties. *Renewable Agriculture and Food Systems*. 25: 228-235.
  8. Bilalis D., **Karkanis A.**, Triantafyllidis V., Ladavos A., Bizos D., Patsiali S., Efthimiadou A., Papatheohari Y., **2010**. Effect of organic and inorganic fertilization on growth, yield and nicotine content of flue-cured and oriental tobacco (*Nicotiana tabacum* L.) seedlings grown in organic and conventional float system. *Journal of Food Agriculture and Environment*. 8 (2): 585-589.
  9. Bilalis D., Papastylianou P., Konstantas A., Patsiali S., **Karkanis A.**, **2010**. Weed suppressive effects of maize-legume intercropping in organic farming. *International Journal of Pest Management*. 56(2): 173-181.
  10. **Karkanis A.**, Bilalis, D., Efthimiadou A., Efthimiadis P., **2010**. Cultural practices effects on weed flora in Virginia (flue-cured) organic tobacco (*Nicotiana tabacum* L.): Green manure and Irrigation systems. *Turkish Journal of Agriculture and Forestry*. 34: 487-496.
- Note: Papers 11-42 published after the Election as Lecturer of Weed Science (March 2010).*
11. Bilalis D.J., **Karkanis A.**, Papastylianou P., Patsiali S., Athanasopoulou M., Barla G., Kakabouki I., **2010**. Response of organic linseed (*Linum usitatissimum* L.) to the combination of tillage systems, (minimum, conventional and no-tillage) and fertilization practices: Seed and oil yield production. *Australian Journal of Crop Science*. 4(9): 700-705.
  12. Efthimiadou A., Bilalis D., **Karkanis A.**, Froud-Williams B., **2010**. Combined organic/inorganic fertilization enhance soil quality and increased yield, photosynthesis and sustainability of sweet maize crop. *Australian Journal of Crop Science*. 4(9): 722-729.
  13. **Karkanis A.**, Bilalis D., Efthimiadou A., **2011**. Architectural plasticity, photosynthesis and growth responses of velvetleaf (*Abutilon theophrasti* Medicus) plants to water stress in a semi-arid environment. *Australian Journal of Crop Science*. 5(4):369-374.
  14. **Karkanis A.**, Efthimadou A., Bilalis D., **2011**. Cultivation of milk thistle (*Silybum marianum* L. Gaertn.), a medicinal weed. *Industrial Crops and Products*. 34: 825-830.

15. Bilalis D., **Karkanis A.**, Konstantas A, Patsiali S, Triantafyllidis V., **2011**. Arbuscular mycorrhizal fungi: a blessing or a curse for weed management in organic olive crops? *Australian Journal of Crop Science*. 5(7): 858-864.
16. Bilalis D., **Karkanis A.**, Patsiali S., Agrogianni M., Konstantas A., Triantafyllidis V., **2011**. Performance of wheat varieties (*Triticum aestivum* L.) under conservation tillage practices in organic agriculture. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 39(2): 28-33.
17. Bilalis D., Katsenios N., Efthimiadou A., Efthimiadis P., **Karkanis A.**, **2012**. Pulsed electromagnetic fields effect in oregano rooting and vegetative propagation: a potential new organic method. *Acta Agriculturae Scandinavica. Section B - Plant soil Science*. 62: 94-99.
18. Bilalis D., Katsenios N., Efthimiadou A., **Karkanis A.**, Efthimiadis A., **2012**. Investigation of pulsed electromagnetic field as a novel organic pre-sowing method on germination and initial growth stages of cotton. *Electromagnetic Biology and Medicine*. 31(2): 143-150.
19. Bilalis D., **Karkanis A.**, Pantelia A., Patsiali S., Konstantas A., Efthimiadou A., **2012**. Weed populations are affected by tillage systems and fertilization practices in organic flax (*Linum usitatissimum* L.) crop. *Australian Journal of Crop Science*. 6: 157-163.
20. **Karkanis A.**, Bilalis D., Efthimiadou A., Katsenios N., **2012**. Comparison between conventional and organic weed management: growth and yield of leek (*Allium porrum* L.). *Horticultural Science*. 39(2): 81-88.
21. **Karkanis A.**, Bilalis D., Efthimiadou A., Katsenios N., **2012**. Effects of field bindweed (*Convolvulus arvensis* L.) and powdery mildew (*Leveillula taurica* (Lev.) Arn.) on pepper growth and yield. *Horticultural Science*. 39(3): 135-138.
22. Efthimiadou A., **Karkanis A.**, Bilalis D., Katsenios N., **2012**. Cultivation of cow cockle (*Vaccaria hispanica* (Mill.) Rauschert): An industrial-medicinal weed. *Industrial Crops and Products*. 40: 307-311.
23. Efthimiadou A., Froud-Williams R.J., Eleftherochorinos I., **Karkanis A.**, Bilalis D.J., **2012**. Effects of organic and inorganic amendments on weed management in sweet maize. *International Journal of Plant Production*. 6(3): 291-308.
24. Bilalis D., Kakabouki I., **Karkanis A.**, Travlos I., Triantafyllidis V., Hela D., **2012**. Seed and saponin production of organic quinoa (*Chenopodium quinoa* Willd.) for different tillage and fertilization. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 40(1): 42-46.
25. Bilalis D., **Karkanis A.**, Sidoras N., Travlos I., Efthimiadou A., Thomopoulos P., Kakabouki I., **2012**. Maize and legumes root growth and yield as influenced by organic fertilization,

under Mediterranean environmental conditions. *Romanian Agricultural Research*. 29: 211-217.

26. Bilalis D., Katsenios N., Efthimiadou A., **Karkanis A.**, 2012. Pulsed electromagnetic field: An organic compatible method to promote plant growth and yield in two corn types. *Electromagnetic Biology and Medicine*. 31(4): 333-343.
27. **Karkanis A.**, Bilalis D., Katsenios N., Efthimiadou A., 2012. The critical period for weed competition in parsley (*Petroselinum crispum* (Mill.) Nyman ex A.W. Hill) in Mediterranean areas. *Crop Protection*. 42: 268-272.
28. Bilalis D., Triantafyllidis, V., **Karkanis A.**, Efthimiadou, A., Kakabouki, I., 2012. Effect of tillage system and rimsulfuron application on weed flora, arbuscular mycorrhizal (AM) root colonization and yield of maize (*Zea mays* L.). *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 40(2): 73-79.
29. Bilalis D., Katsenios N., Efthimiadou A., **Karkanis A.**, Khah E.M., Mitsis T., 2013. Magnetic field pre-sowing treatment as an organic friendly technique to promote plant growth and chemical elements accumulation in early stages of cotton. *Australian Journal of Crop Science*. 7(1): 46-50.
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25. Raptis A, **Karkanis A.**, Petropoulos S. **2017**. Effects of nitrogen fertilization on growth and quality of stamnagathi (*Cichorium spinosum* L.). *Proceedings of the 28<sup>th</sup> Conference of Greek Association of Horticultural Science*. Thessaloniki, 2017. p. 220.
26. Yfantopoulos D., Ntatsi G., Vougeleka V., Arapis G., **Karkanis A.**, Savvas D. **2017**. Effect of production system (biological or conventional) and crop rotation with legumes on greenhouse gas emissions (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O) in cabbage crop. *Proceedings of the 28<sup>th</sup> Conference of Greek Association of Horticultural Science*. Thessaloniki, 2017. p. 242.
27. Kolovou P., **Karkanis A.**, Antoniadis V., Petropoulos S. **2017**. Effects of different nitrogen fertilizer form on growth and quality of stamnagathi plants. *Proceedings of the 28<sup>th</sup> Conference of Greek Association of Horticultural Science*. Thessaloniki, 2017. p. 247.
28. **Karkanis A.**, Papadopoulou S., Tsita C., Karamoutis C, Souipas S., **2019**. *Silybum marianum* control with post-emergence herbicides in durum wheat crop. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 34-35 (in Greek and English).
29. Mokou V., **Karkanis A.**, Souipas S., **2019**. Efficacy of three post-emergence applied herbicides against johnsongrass (*Sorghum halepense* (L.) Pers.) and on growth of its rhizomes. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 36-37 (in Greek and English).
30. **Karkanis A.**, Athanasiadou D., Zografos S., Karanasou K., Souipas S., **2019** Johnsongrass control with herbicides and its impact on maize production. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 50-51 (in Greek and English).
31. Arampatzis D., Tsiropoulos N., **Karkanis A.**, **2019**. Effects of plant growth regulator mepiquat chloride and crop density on growth and yield of medicinal plant *Silybum marianum*. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 62-63 (in Greek and English).

32. Vardaka A., Gnioni A., Arampatzis D., Tsiropoulos N., **Karkanis A., 2019** Evaluation of *Silybum marianum* populations from various areas of the Peloponnese region, based on seed silymarin content. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 100-101 (in Greek and English).
33. Arampatzis D., Tzortzis A., Giatsiou E., Tsiropoulos N., **Karkanis A., 2019**. Evaluation of silymarin content and antioxidant capacity of *Silybum marianum* seeds harvested at different ripening stages. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 114-115 (in Greek and English).
34. Georgousakis H., Sakka M.K., **Karkanis A., Athanassiou C.G., 2019**. Population growth of *Rhizopertha dominica* and *Sitophilus oryzae* in mixtures of wheat and barley kernels with seeds of *Silybum marianum*. *Proceedings of the 20<sup>th</sup> Conference of the Weed Science Society of Greece*. Agrinio, 2019. pp. 118-119 (in Greek and English).
35. Kafetzopoulos G., Fernandes Â., Polyzos N., Simopoulou S., **Karkanis A., Barros, L., Ferreira, I.C.F.R., Petropoulos S., 2019**. Influence of nitrogen fertilization on yield and quality of *Centaurea raphanina* subsp. *mixta*. *Proceedings of the 29<sup>th</sup> Conference of Greek Association of Horticultural Science*. Patra, 15-18 October 2019. p. 68 (in Greek).
36. Kotsalidou N., Arampatzis D., **Karkanis A., Tsiropoulos N., 2019**. Influence of weed competition on yield and silymarin content of medicinal weed *Silybum marianum* under different plant densities. *Proceedings of the 29<sup>th</sup> Conference of Greek Association of Horticultural Science*. Patra, 15-18 October 2019. p. 76 (in Greek).
37. Alexiou A., Katsaros C., Petropoulos S., **Karkanis A., 2019**. Allelopathic effects of spearmint and peppermint on maize crop. *Proceedings of the 29<sup>th</sup> Conference of Greek Association of Horticultural Science*. Patra, 15-18 October 2019. p. 230 (in Greek).

*Note: Papers 38-53 published after the Election as Associate Professor of Weed Science*

38. Voutsinos O., Karaviti T., Fortis D., Zioviris G., Ropokis A., Sabatino L., Karavidas I., **Karkanis A., Savvas D. and Datsi G. 2022**. Recommendation of nutrition recipes for hydroponic cultivation in a float system of various wild Mediterranean leafy vegetables.

*Proceedings of the 30<sup>th</sup> Conference of Greek Association of Horticultural Science*. May 9-12, Athens p. 260.

39. Liava V., **Karkanis A.** and Tsiropoulos N. **2022**. Effect of native populations of milk thistle (*Silybum marianum* (L.) Gaertn.) on oil content and yield. Proceedings of the 18<sup>th</sup> Plant Breeding Congress of the Hellenic ellenic Scientific Society of Plant Genetics and Breeding. "Plant Breeding: Innovations and Perspectives for Sustainable Development". Volos, 5-7 October 2022. p. 64 (In Greek).
40. Palamiotis T., Palamioti C., Giannoulis K.D., Souipas S. and **Karkanis A.** **2023**. Johnsongrass control with herbicides and its impact on sunflower production. *Proceedings of the 21<sup>st</sup> Conference of the Weed Science Society of Greece*. Athens, 2023. pp. 30-31 (in Greek and English).
41. Athanasiadou D., Souipas S., Karamoutis C., Giannoulis K.D. and **Karkanis A.** **2023**. Integrated management of *Silybum marianum* (L.) Gaertn. in durum wheat crop with a combination of sowing time and post-emergence herbicides. *Proceedings of the 21<sup>st</sup> Conference of the Weed Science Society of Greece*. Athens, 2023. pp. 32-33 (in Greek and English).
42. Liava V. and **Karkanis A.** **2023**. Effect of temperature, duration, and storage conditions on seed germination of *Silybum marianum* (L.) Gaertn. *Proceedings of the 21<sup>st</sup> Conference of the Weed Science Society of Greece*. Athens, 2023. pp. 52-53 (in Greek and English).
43. Liava V., Tsiropoulos N. and **Karkanis A.** **2023**. Effect of inorganic and organic fertilization on growth and yield of milk thistle crop. *Proceedings of the 21<sup>st</sup> Conference of the Weed Science Society of Greece*. Athens, 2023. pp. 62-63 (in Greek and English).
44. Sparangis P., Efthimiadou A., Katsenios N. and **Karkanis A.** **2023**. Efficacy of post-emergence herbicides against resistant population of false cleavers to ALS-inhibiting herbicides in durum wheat crop. *Proceedings of the 21<sup>st</sup> Conference of the Weed Science Society of Greece*. Athens, 2023. pp. 124-125 (in Greek and English).
45. Spyrou G.P., Ntanasi Th., Karavidas I., Ropokis A., **Karkanis A.**, Saitanis K., Savvas D. and Ntatsi G., **2023**. Evaluation of the optimal dose of SeO<sub>2</sub> on the growth, production, nutritional status and photosynthetic capacity of hydroponically cultivated common purslane.

*Proceedings of the 31<sup>st</sup> Conference of Greek Association of Horticultural Science.* 29 October to 2 November 2023. Heraklion. p. 97 (In Greek).

46. Mavroviti V., Ntatsi G., **Karkanis A., 2023.** Impact of inorganic fertilization on growth and yield of edible weed *Helminthotheca echioides*. *Proceedings of the 31<sup>st</sup> Conference of Greek Association of Horticultural Science.* 29 October to 2 November 2023. Heraklion. p. 237 (in Greek).
47. Sparangis P., Efthimiadou A., Katsenios N., Giannoulis K., **Karkanis A. 2025.** Effects of two crop rotation systems on false cleavers and durum wheat crop yield. *Proceedings of the 22<sup>nd</sup> Conference of the Weed Science Society of Greece.* Arta, 2025. pp. 5-6 (in Greek and English).
48. Sparangis P., Efthimiadou A., Katsenios N., **Karkanis A. 2025.** Impact of sowing date on herbicides efficacy against false cleavers (*Galium spurium* L.) in durum wheat crop. *Proceedings of the 22<sup>nd</sup> Conference of the Weed Science Society of Greece.* Arta, 2025. pp. 58-59 (in Greek and English).
49. Bourganou C., Ntanasi T., Karavidas I., Rumbos C., Athanassiou C., Ntatsi G., **Karkanis A. 2025.** Nutrients uptake and plants growth of *Helminthotheca echioides* under different fertilization regimes. *Proceedings of the 22<sup>nd</sup> Conference of the Weed Science Society of Greece.* Arta, 2025. pp. 101-102 (in Greek and English).
50. Angou A, Souipas S., **Karkanis A. 2025.** Critical competition period of Johnsongrass and rough cocklebur in maize crop. *Proceedings of the 22<sup>nd</sup> Conference of the Weed Science Society of Greece.* Arta, 2025. pp. 103-104 (in Greek and English).
51. Karavidas I., Ntanasi T., Spyrou G.P, Giannothanasis E., Karkanis A., Ntatsi G. 2025. Evaluation of substituting nitrate nitrogen with ammonium nitrogen for the growth and nutrition of purslane in hydroponic systems. *Proceedings of the 32<sup>nd</sup> Conference of Greek Association of Horticultural Science.* 20 to 23 October 2025. Volos. p. 81 (in Greek).
52. Spyrou G.P, Ntanasi T., Karavidas I., Giannothanasis E., Karkanis A., Ntatsi G. 2025. Strategies to enhance the nutritional value and production of the leafy vegetable *Mesembryanthemum crystallinum* L. under saline conditions. *Proceedings of the 32<sup>nd</sup> Conference of Greek Association of Horticultural Science.* 20 to 23 October 2025. Volos. p. 218 (in Greek).

53. Ntanasi T., Karavidas I., Spyrou G.P., Marka S., Giannothanas E., Karkanis A., Ntatsi G. 2025. Comparative evaluation of conventional and organic fertilization schemes in wild leafy vegetables. *Proceedings of the 32<sup>nd</sup> Conference of Greek Association of Horticultural Science*. 20 to 23 October 2025. Volos. p. 222 (in Greek).

#### **D. Papers in proceedings of international conferences**

*Note: Papers 1-10 published after the Election as Lecturer of Weed Science.*

1. **Karkanis A.**, Bilalis, D., Efthimiadou A., Savvas D., Konstantas A., **2011**. Effects of plant density and row arrangement on weed management and yield in organic cabbage crop (*Brassica oleracea* var. *capitata* L.). *The 10<sup>th</sup> International Symposium “Prospects for the 3<sup>rd</sup> Millennium Agriculture*. 29<sup>th</sup> September – 1<sup>st</sup> October 2011. Cluj-Napoca, Romania. *Bulletin UASVM Horticulture*. 68(1): 238-243.
2. Bilalis D., Patsiali S., **Karkanis A.**, Padaleon K., Kontopoulou C.K., **2011**. Effects of mycorrhiza on fiber quality parameters, root characteristics and yield of organic cotton (*Gossypium hirsutum* L.). *The 10<sup>th</sup> International Symposium “Prospects for the 3<sup>rd</sup> Millennium Agriculture*. 29 September - 1 October 2011. Cluj-Napoca, Romania. *Bulletin UASVM Agriculture*. 68(1): 51-57.
3. Konstantas A., Bilalis D., Mbeopoulos N., **Karkanis A.**, Patsiali S., **2011**. A survey concerning organic, integrated and conventional agriculture in Greece. *The 10<sup>th</sup> International Symposium “Prospects for the 3<sup>rd</sup> Millennium Agriculture*. 29<sup>th</sup> September – 1<sup>st</sup> October 2011. Cluj-Napoca, Romania. *Bulletin UASVM Horticulture*. 68(2): 120-126.
4. Bilalis D., Angelopoulou F., Papastylianou P., **Karkanis A.**, Kakabouki I., Konstantas A., **2014**. Effect of irrigation on growth and development of the root system of two medicinal plants, *Hyssopus officinalis* and *Passiflora incarnata*. *Proceedings of the 13<sup>th</sup> International Symposium “Prospects for the 3<sup>rd</sup> Millennium Agriculture*. 25<sup>th</sup>-27<sup>th</sup> of September 2014, Cluj-Napoca, Romania. Book of Abstracts. p. 226. *Bulletin UASVM Horticulture*. 71(2): 212-217.
5. **Karkanis A.**, Bilalis D., Efthimiadou A., Gavalaki A., Koustas N., **2014**. Efficacy of post-emergence herbicides applied at reduced doses on wheat in durum wheat (*Triticum durum* L.) in central Greece. *Proceedings of the 13<sup>th</sup> International Symposium “Prospects for the*

*3rd Millennium Agriculture*. 25<sup>th</sup>-27<sup>th</sup> of September 2014, Cluj-Napoca, Romania. Book of Abstracts. p. 683. *Bulletin UASVM Horticulture*. 71(2): 353-354.

6. **Karkanis A.**, Bilalis D., Efthimiadou A., Travlos I., Chachalis D., Katsenios N., **2015**. Reduced rates of herbicides to control *Galium aparine*, *Sinapis arvensis* and *Avena sterilis* in late-sown durum wheat (*Triticum durum* L.). *Proceedings of the Workshop of the European Weed Science Society on Optimizing herbicide use in an Integrated Weed Management (IWM) context*. 5<sup>th</sup>-7<sup>th</sup> of March 2015. Heraklion, Greece. pp. 34-35.
7. Koustas A., Travlos I.S., Bilalis D.J., Papastylianou P., Papadimitriou D., Douma D., Chachalis D., **Karkanis A.**, **2015**. Field horsetail (*Equisetum arvense* L.) and its effects on chickpea. *Proceedings of the Workshop of the European Weed Science Society on Optimizing herbicide use in an Integrated Weed Management (IWM) context*. Heraklion, Greece. p. 49.
8. Bilalis D., **Karkanis A.**, Angelopoulou F., Antoniadis A., Travlos I., Ntatsi G., Lazaridi E., Savvas D., **2015**. Effect of organic and mineral fertilization on growth and mycorrhizal colonization of pea crops. *Proceedings of the 14<sup>th</sup> International Symposium "Prospects for the 3rd Millennium Agriculture"*. 24<sup>th</sup>-26<sup>th</sup> of September 2015, Cluj-Napoca, Romania. Book of Abstracts. p. 158. *Bulletin UASVM Horticulture*. 72(2):288-294.
9. Bilalis 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. *Proceedings of the 14<sup>th</sup> International Symposium "Prospects for the 3rd Millennium Agriculture"*. 24<sup>th</sup>-26<sup>th</sup> of September 2015, Cluj-Napoca, Romania. Book of Abstracts. p. 479. *Bulletin UASVM Horticulture*. 72(2): 443-444.
10. Lykas C., Basouris G., Petropoulos S., **Karkanis A.**, **2015**. Comparison of soil and soilless production of basil (*Ocimum basilicum* L.) in Mediterranean climatic conditions. *Proceedings of the International Symposium on New Technologies and Management for Greenhouses, GreenSys 2015*. 19<sup>th</sup> to 23<sup>rd</sup> July 2015. Evora, Portugal. p. 127.

*Note: Papers 11-19 published after the Election as Assistant Professor of Weed Science.*

11. Petropoulos A., Fernandes A., **Karkanis A.**, Ntatsi G., Barros L., Ferreira I.C.F.R., **2017**. Harvesting time affects yield and chemical composition of *Cichorium spinosum* L.

*Proceedings of the 52<sup>nd</sup> Croatian and 12<sup>th</sup> International Symposium on Agriculture*, February 12-17, 2017, Dubrovnik, Croatia. p. 136.

12. Ioannou A., Petropoulos S., Fernandes A., **Karkanis A.**, Antoniadis V., Barros L., Ferreira, I.C.F.R., **2017**. Yield and chemical composition of *Cichorium Spinosum* L. in relation to nitrogen rate. *Proceedings of the International Conference Plant Nutrition, Growth & Environment Interactions III*. February 20-21, 2017, Vienna, Austria. p. 40.
13. Savvas D., Pappa V.A., Yfantopoulos D., **Karkanis A.**, Travlos I., Bebeli P.J., Ntatsi G., Bilalis D., **2017**. Impact of organic practices on growth, yield, and greenhouse gas emissions by pea landraces. *Proceedings of the III International Symposium on Organic Greenhouse Horticulture*, Izmir, Turkey, 2016. *Acta Horticulturae (ISHS)*. 1164: 77-84.
14. Kolovou P., Antoniadis V., **Karkanis A.**, Ferreira I.C.F.R., Petropoulos S. **2017**. The effect of nutrient solution composition on development of *Cichorium spinosum* plants. *Proceedings of the VIII International Scientific Agriculture Symposium*, October 5-8, 2017. Jahorina, Bosnia and Herzegovina. pp. 270-274.
15. Liava V., **Karkanis A.**, Golia E., Antoniadis V., Tsiropoulos N., **2018**. Influence of agricultural byproducts use as organic amendments to the pesticides behavior in soil. *Proceedings of the Fifth International Symposium on Green Chemistry, Sustainable Development and Circular Economy*, September 30 to October 3, 2018, Skiathos, Greece. p. 49.
16. Arampatzis D.A., **Karkanis A.C.**, Tsiropoulos N.G., **2018**. Evaluation of silymarin content and flavonolignans composition in *Silybum marianum* populations growing in Greece. *Proceedings of 30<sup>th</sup> International Symposium on the Chemistry of Natural Products*, 25-29 November 2018, Athens, Greece. PS1-K-005.
17. **Karkanis Anestis**, Tsipni Eirini, **2019**. Cleavers (*Galium aparine* L.) resistance to acetolactate synthase (ALS)-inhibiting herbicides and its impact on growth rate. *Proceedings of the 18<sup>th</sup> International Conference "Life Sciences for Sustainable Development"*, 26-28 September 2019, Cluz-Napoca, Romania. p. 349.
18. Raptis Nikolaos and **Karkanis Anestis**, **2020**. Effects of vetch and field pea cover crops on weed flora in organic *Aronia melanocarpa* crop. *Proceedings of the 19<sup>th</sup> International Conference "Life sciences for sustainable development"*. University of Agricultural Sciences

and Veterinary Medicine Cluj-Napoca. 24-25 September 2020, Cluj-Napoca, Romania. p.241

19. Liava V., **Karkanis A.**, Danalatos N., Tsiropoulos, N. **2021**. Effects of nitrogen fertilization on growth and yield of milk thistle (*Silybum marianum* (L.) Gaertn). *20<sup>th</sup> International Congress of the International Society for Ethnopharmacology (ISE)*. 18-20 April 2021 (held on Virtual Congress Platform). p. 141.

*Note: Papers 20-28 published after the Election as Associate Professor of Weed Science*

20. Liava Vasiliki, **Karkanis Anestis**, Danalatos Nicholaos, Tsiropoulos, Nikolaos, **2021**. Effects of fertilization on growth and productivity of three milk thistle populations. *Proceedings of the 20<sup>th</sup> International Conference "Life sciences for sustainable development"*. University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. 23-24 September 2021, Cluj-Napoca, Romania. p.249 (Bulletin UASVM Horticulture, 78(2): 173-176.
21. Bourganou C., **Karkanis A.**, Giannoulis K., Karamoutis C. **2022**. Crop rotation effects on weed flora and yield in durum wheat. *Proceedings of the 19<sup>th</sup> European Weed Research Society Symposium*. 20-23 June 2022, Athens, Greece. p. 164.
22. **Karkanis A.**, Sortikou A., Christodoulou G., Souipas S., Giannoulis K. **2022**. Selectivity of pre- and post-emergence herbicides in castor bean (*Ricinus communis* L.). *Proceedings of the 19<sup>th</sup> European Weed Research Society Symposium*. 20-23 June 2022, Athens, Greece. pp. 218.
23. Sortikou A., Giannoulis K.D., **Karkanis A.** **2023**. Impact of post-emergence herbicides and two three-year rotations on weed flora and durum wheat yield. *Proceedings of the XIV International Scientific Agriculture Symposium "AGROSYM 2023"*. 05-08 October 2023, Jahorina, Bosnia and Herzegovina. p. 118.
24. Sapalidou M., Giannoulis K.D., Souipas S., **Karkanis A.** **2023**. Impact of post-emergence herbicides on weed biomass, seed yield, and quality of maize crop. *Proceedings of the XIV International Scientific Agriculture Symposium "AGROSYM 2023"*. 05-08 October 2023, Jahorina, Bosnia and Herzegovina. pp. 119.
25. Arampatzis D., **Karkanis A.** **2023**. *Galium spurium*, *Sinapis arvensis*, and *Avena sterilis* control with post-emergence herbicides on durum wheat. *Proceedings of the XIV*

*International Scientific Agriculture Symposium “AGROSYM 2023”*. 05-08 October 2023, Jahorina, Bosnia and Herzegovina. p. 125.

26. Spyrou G.P., Ntanasi T., Karavidas I., Consentino B.B., Ropokis A., **Karkanis A.**, Sabatino L., Saitanis C., Savvas D. and Ntatsi G., **2024**. Impact of different selenium doses on leaf gas exchange of the underutilized leafy green *Portulaca oleracea* grown hydroponically. *Proceedings of the IX South-Eastern Europe Symposium on Vegetables and Potatoes*. Bucharest (Romania), September 5-9, 2023. Πλήρη εργασία στο Acta Horticulturae. 1391: 455-462.
27. Karavidas I., Spyrou G.P., Ntanasi T., Giannothanasis E., Vultaggio L., Sabatino L., **Karkanis A.**, Neocleous D., Savvas D., Ntatsi G. **2024**. Balancing nutrient solution composition to optimize yield and quality of hydroponic purslane. *Proceedings of the I International Symposium on Protected Cultivation, Nettings and Screens for Mild Climates*. Athens, Greece, September 23-26, 2024. p. 24.
28. Spyrou G., Ntanasi T., Karavidas I., Giannothanasis E., Consentino B.B., Sabatino L., **Karkanis A.**, Saitanis C., Savvas D., Ntatsi G. **2024**. Evaluation of the optimal dose of SeO<sub>2</sub> in leaf gas exchange factors of hydroponically grown *Taraxacum officinale*. *Proceedings of the I International Symposium on Protected Cultivation, Nettings and Screens for Mild Climates*. Athens, Greece, September 23-26, 2024. p. 119.

## **E. Book chapters**

*Note: Book chapter published after the Election as Lecturer of Weed Science.*

1. **Karkanis A.**, Travlos I.S., Bilalis D.J., Tabaxi E.I., **2016**. Integrated weed management in winter cereals in Southern Europe. In: *Travlos, I.S., Bilalis, D.J., Chachalis, D., Weed and pest control: Molecular biology, practices and environmental impact*. Nova Science Publishers, Inc. USA. pp. 1-15.

*Note: Book chapter published after the Election as Assistant Professor of Weed Science.*

2. Vasconcelos M.W., Grusak M.A., Pinto E., Gomes A., Ferreira H., Balázs B., Centofanti T., Ntatsi G., Savvas D., **Karkanis A.**, Williams M., Vandenberg A., Toma L., Shrestha S., Akaichi F., Barrios C.O., Gruber S., James E.K., Maluk M., Karley A. and Iannetta P., **2020**.

The biology of legumes and their agronomic, economic, and social impact. In: *Hasanuzzaman M., Araújo S., Gill S.S. (Eds.), The plant family Fabaceae: Biology and physiological responses to environmental stresses*. Springer Nature Singapore Pte Ltd. pp. 3-25.

*Note: Book chapter published after the Election as Associate Professor of Weed Science.*

3. Pinto E., Ferreira H., Santos C.S., da Silva M.N., Styles D., Migliorini P., Ntatsi G., **Karkanis A.**, Brémaud M-F, de Mey Y., Meuwissen M., Petrusan J.-I., Smetana S., Silva B., Krenz L.M.M., Pleissner D., Profeta A., Debeljak M., Ivanovska A., Balázs B., Rubiales D., Hawes C., Iannetta P.P.M., and Vasconcelos M.W., **2023**. Healthier and Sustainable Food Systems: Integrating Underutilised Crops in a ‘Theory of Change Approach’. In: *Galanakis, C.M. (eds) Biodiversity, Functional Ecosystems and Sustainable Food Production*. Springer, Cham. pp. 275-323. [https://doi.org/10.1007/978-3-031-07434-9\\_9](https://doi.org/10.1007/978-3-031-07434-9_9)

## **F. Magazine article**

*Note: The magazine article published after the Election as Lecturer of Weed Science.*

**Karkanis A., 2014.** Weed management in spring vegetable crops. *Fresher*. 3/2014. pp. 58-59 (in Greek).

## **16. Citations-Impact of Published Research/December 2025**

Total number of citations in Scopus: 2603.

Total number of citations in Google Scholar: 4485.

H-index in Scopus: 28.

H-index in Google Scholar: 36

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Citations by 2,156 documents

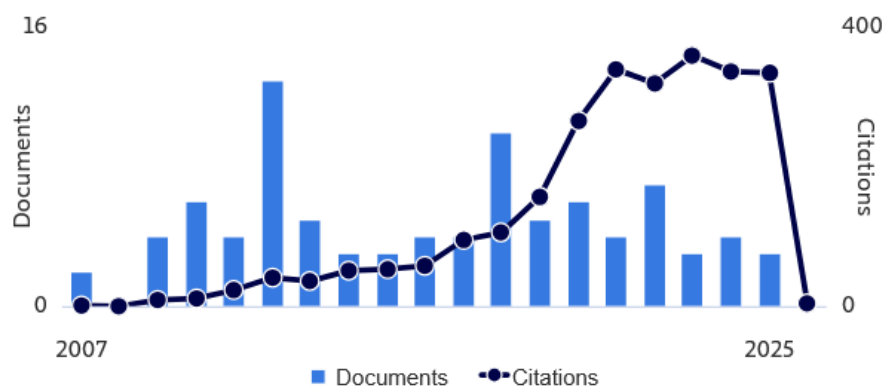
90

Documents

28

[h-index](#)

## Document & citation trends



**Figure 1.** Number of publications and citations per year (Scopus, December 2025).

## 17. Reviewer

Reviewer in 74 International Scientific Journals (Web of Science, <https://www.webofscience.com/wos/author/record/W-9775-2019>, May 2025).




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### Published names

Karkanis, Anestis   Karkanis, A.   Karkanis, Anestis C.   Karkanis, A. C.

## Peer Review Metrics

**267**

Verified Peer  
Reviews

Median: 4

99th percentile

**9**

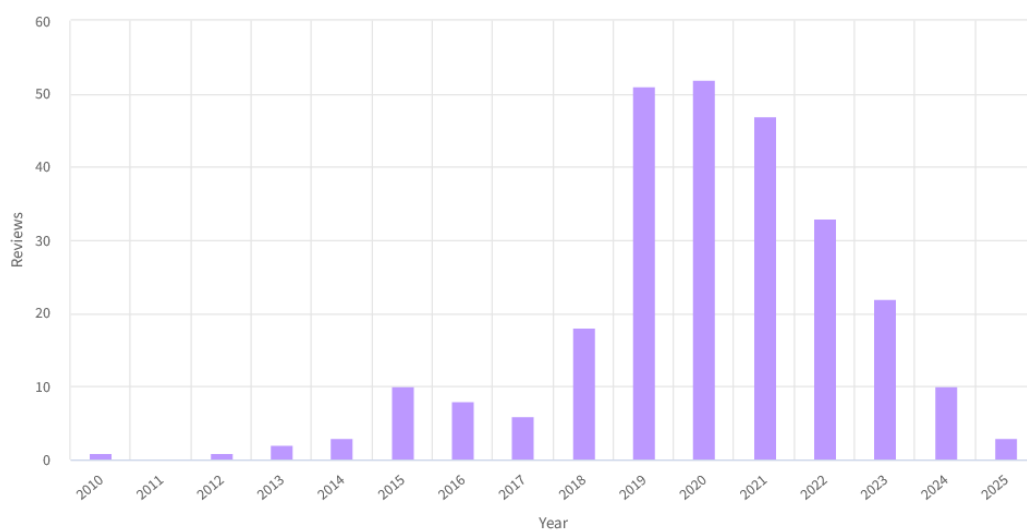
Verified Peer  
Reviews (Last 12  
Months)

Median: 0

95th percentile

## Reviews

Per Year ▾



**Figure 2.** Verified reviews in International Scientific Journals.

### List of International Scientific Journals

1. Weed Science
2. Advances in Weed Science
3. Crop Protection
4. International Journal of Pest Management
5. Plant Protection Science
6. Industrial Crops and Products
7. Scientific Reports

8. Agronomy for Sustainable Development
9. Archives of Agronomy and Soil Science
10. Frontiers in Plant Science
11. Agronomy
12. Crop Science
13. Plant Physiology and Biochemistry
14. Annals of Applied Biology
15. Scientia Horticulturae
16. Plants
17. BMC Plant Biology
18. Phytochemistry
19. Sustainability
20. Molecules
21. International Journal of Molecular Sciences
22. Journal of the Science of Food and Agriculture
23. Trends in Food Science & Technology
24. Biotechnology Reports
25. Canadian Journal of Plant Science
26. Food Chemistry
27. Geoderma
28. Legume Science
29. Global Change Biology

30. Spanish Journal of Agricultural Research
31. Notulae Botanicae Horti Agrobotanici Cluj-Napoca
32. Agriculture
33. Acta Agriculturae Scandinavica, Section B-Plant Soil Science
34. Journal of Integrative Agriculture (formerly Agricultural Sciences in China).
35. American Journal of Agricultural and Biological Science
36. Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis.
37. Journal of Agriculture and Rural Development in the Tropics and Subtropics.
38. Notulae Scientia Biologicae
39. Journal of Soil Science and Environmental Management.
40. Plant Pathology Journal
41. Annals of Agricultural Sciences
42. Asian Journal of Agriculture and Biology
43. Sensors
44. Agricultural and Food Science
45. African Journal of Agricultural Research
46. Acta Agrobotanica
47. Horticulturae
48. Land Degradation & Development
49. AgriEngineering
50. Emirates Journal of Food and Agriculture

51. Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Horticulture
52. Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Agriculture
53. Applied Sciences
54. Italus Hortus
55. Journal of Soil Science and Plant Nutrition
56. Plant-Environment Interactions
57. Irish Journal of Agricultural and Food Research
58. Genes
59. Biology
60. Diversity
61. Plant Biology
62. Crops
63. Phytoparasitica
64. Antioxidants
65. Arid Land Research and Management
66. Plant Genetic Resources
67. PeerJ
68. Ecological Applications
69. Agronomy Journal
70. Plants Species Biology
71. Methods and Protocols

72. Agrochemicals
73. Food Science and Nutrition
74. Journal of Essential Oil Bearing Plants

### **18. Member of Editorial Board in International Scientific Journals**

1. *Agronomy* (Section: Weed Science and Weed Management). Εκδοτικός οίκος MDPI, Basel, Switzerland([https://www.mdpi.com/journal/agronomy/sectioneditors/Weed\\_Science\\_Weed\\_Management](https://www.mdpi.com/journal/agronomy/sectioneditors/Weed_Science_Weed_Management)).
2. *Open Agriculture* (Section: Agronomy). Εκδοτικός οίκος De Gruyter, Berlin, Germany (<https://www.degruyter.com/journal/key/OPAG/html>).
3. *Agrochemicals*. Εκδοτικός οίκος MDPI, Basel, Switzerland (<https://www.mdpi.com/journal/agrochemicals/editors>)

### **19. Guest Editor in Special Issues**

1. Guest Editor in Special Issue: “**Cultivation Practices, Pharmaceutical and Nutritional Value of Weeds**” in *Agronomy* (IF 2024: 3,4). ([https://www.mdpi.com/journal/agronomy/special\\_issues/Cultivation-weeds](https://www.mdpi.com/journal/agronomy/special_issues/Cultivation-weeds))
2. Guest Editor in Special Issue: “**Agronomic, Technological and Ecological Advances in Integrated Weed Management**” in *Agronomy* (IF 2024: 3,4). ([https://www.mdpi.com/journal/agronomy/special\\_issues/Cultivation-weeds](https://www.mdpi.com/journal/agronomy/special_issues/Cultivation-weeds))