



Curriculum Vitae

Dr. Anestis Karkanis

Associate Professor of Weed Science

University of Thessaly

Department of Agriculture Crop Production and Rural Environment

Volos, 2024

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.

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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.
- ✓ Pharmaceutical and nutritional value of weeds.

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 52 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
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2010-2011	Weed biology and ecology	9 th	Department of Agriculture Crop Production and Rural Environment, University of Thessaly
	Plant Morphology and Anatomy	2 nd	
2011-2012	Plant Physiology	5 th	
	Plant Morphology and Anatomy	2 nd	
	Weed Science	6 th	
2012-2013	Weed Science	6 th	
2013-2014	Weed Science	6 th	
2014-2015	Agriculture Pharmacology	9 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2015-2016	Agriculture Pharmacology	9 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2016-2017	Agriculture Pharmacology	9 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2017-2018	Agriculture Pharmacology	7 th , 9 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2018-2019	Agriculture Pharmacology	7 th	
	Weed Science	6 th	

	Systematic Botany	4 th	
2019-20	Agriculture Pharmacology	7 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2020-21	Agriculture Pharmacology	7 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2021-22	Agriculture Pharmacology	7 th	
	Weed Science	6 th	
	Systematic Botany	4 th	
2022-23	Weed Science	5 ^h	
	Systematic Botany	4 th	
2023-24	Weed Science	5 ^h	
	Systematic Botany	4 th	

✓ **Postgraduate studies**

Academic Year	Course Title	Semester	University
2011-2012	Weed and herbicide management	1 st	Department of Agriculture Crop
2012-2013	Weed and herbicide management	1 st	
2012-2013	Weed biology, ecology and management	2 nd	
2013-2014	Weed management	2 nd	
2014-2015	Protocols and Programs in Plant	1 st	

	Protection		Production and Rural Environment, University of Thessaly
2014-2015	Weed management	2 nd	
2015-2016	Protocols and Programs in Plant Protection	1 st	
2015-2016	Weed management	2 nd	
2016-2017	Protocols and Programs in Plant Protection	1 st	
2016-2017	Weed management	2 nd	
2017-2018	Protocols and Programs in Plant Protection	1 st	
2017-2018	Weed management	2 nd	
2018-2019	Weed Management	1 st	
2019-20	Weed Management	1 st	
2020-21	Protocols and Programs in Plant Protection	2 nd	
	Weed management	1 st	
2021-22	Weed management	1 st	
	Protocols and Programs in Plant Protection	2 nd	
	Special topics in Phytiatrics	2 nd	
2022-23	Protocols and Programs in Plant Protection	2 nd	
	Special topics in Phytiatrics	2 nd	
	Weed management	1 st	
2023-24	Weed management	1 st	
	Protocols and Programs in Plant Protection	2 nd	
	Special topics in Phytiatrics	2 nd	

ii. Supervised Students

Supervisor of:

- ✓ Forty (46) BSc dissertations
- ✓ Nine (13) MSc theses.
- ✓ Two (2) Ph.D theses

iii. Member of the student's advisory committee

Member of advisory and evaluation committee in:

- ✓ Eighty-five (96) BSc dissertations
- ✓ Twenty (24) MSc theses
- ✓ Seven (7) Ph.D thesis

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 7th 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: 12th Conference of the Weed Science Society of Greece (1 paper).

2004: 10th Conference of the Hellenic Soil Science Society of Greece (2 papers).

2006: 14th Conference of the Weed Science Society of Greece (4 papers).

2010: 13th Conference of the Hellenic Soil Science Society of Greece (1 paper).

2010: 16th 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: 17th Conference of the Weed Science Society of Greece (2 papers).

2014: 6th 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: 17th Hellenic Phytopathological Congress (1 paper).

2015: 18th 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: 14th International Symposium “Prospects for the 3rd Millennium Agriculture. 24th-26th of September 2015, Cluj-Napoca, Romania (2 papers).

2015: 27th Conference of Greek Association of Horticultural Science (EEEE) (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 52nd Croatian and 12th 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: 19th 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: 28th Conference of Greek Association of Horticultural Science (EEEE) (4 papers).

2018: 7th Panhellenic Plant Protection Meeting, Larissa (1 presentation).

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

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

2019. 20th Conference of the Weed Science Society of Greece (7 papers).

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

2019: 29th Conference of Greek Association of Horticultural Science (EEEE) (3 papers).

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

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

2021: 20th 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: 19th European Weed Research Society Symposium. 20-23 June 2022, Athens, Greece. (2 papers).

2022: 30th Conference of Greek Association of Horticultural Science (EEEE) (1 paper).

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

2023: 21th Conference of the Weed Science Society of Greece (5 papers).

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

2023: 31th Conference of Greek Association of Horticultural Science (EEEE) (2 paper).

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

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. 6th 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.** 6th 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», Agrotessaly 2019-12th Pan-Hellenic Fair for Agriculture and Livestock. Larissa, 28 February 2019.

15. Publications

Published 81 papers in international peer-reviewed journals, 72 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.**, Sidiras 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.

30. Vitoratos A., Bilalis D., **Karkanis A.**, Efthimiadou A., **2013**. Antifungal activity of plant essential oils against *Botrytis cinerea*, *Penicillium italicum* and *Penicillium digitatum*. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 41: 86-92.
31. Bilalis D.J., Travlos I.S., **Karkanis A.**, Gournaki M., Katsenios G., Hela D., Kakabouki I., **2013**. Evaluation of the allelopathic potential of quinoa (*Chenopodium quinoa* Willd.). *Romanian Agricultural Research*. 30: 359-364.
32. Bilalis D., Kamariari PE., **Karkanis A.**, Efthimiadou A., Zorpas A., Kakabouki I. **2013**. Energy inputs, output and productivity in organic and conventional maize and tomato production, under Mediterranean conditions. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 41: 190-194.
33. Bilalis D., Tzortzi I., Vavoulidou E., **Karkanis A.**, Emmanouel N., Efthimiadou A., Katsenios N., Patsiali S., Dellaporta L., **2013**. Effects of aluminum and moisture levels on aluminum bioaccumulation and protein content in the earthworm *Octodrilus complanatus*. *Journal of Soil Science and Plant Nutrition*. 13(4): 845-854.
34. Alemardan A., **Karkanis A.**, Salehi R., **2013**. Breeding objectives and selection criteria for milk thistle [*Silybum marianum* (L.) Gaertn.] improvement. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 41(2): 340-347.
35. Efthimiadou A., Katsenios N., **Karkanis A.**, Papastylianou P., Triantafyllidis V., Travlos I., Bilalis D.J., **2014**. Effects of presowing pulsed electromagnetic treatment of tomato seed on growth, yield, and lycopene content. *Scientific World Journal*. 2014, article ID 369745, 6 pages.
36. Kakabouki I., Bilalis D., **Karkanis A.**, Zervas G., Tsiplakou E., Hela D., **2014**. Effects of fertilization and tillage system on growth and crude protein content of quinoa (*Chenopodium quinoa* Willd.): An alternative forage crop. *Emirates Journal of Food and Agriculture*. 26(1): 18-24.
37. Bilalis D., **Karkanis A.**, Savvas D., Kontopoulou CK., Efthimiadou A., **2014**. Effects of fertilization and salinity on weed flora in common bean (*Phaseolus vulgaris* L.) grown

following organic or conventional cultural practices. *Australian Journal of Crop Science*. 8 (2): 178-182.

38. Angelopoulou F., Kakabouki I., Papastylianou P., Papatheohari Y., Konstantas A., **Karkanis A.**, Travlos I., Bilalis D., **2014**. Effect of organic fertilization on growth and development of the root system of two medicinal plants, oregano (*Origanum vulgare* L.) and milk thistle (*Silybum marianum* L. Gaertn.). *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca Horticulture*. 71: 201-206.
 39. **Karkanis A.**, Vellios E., Thomaidis T., Bilalis D., Efthimiadou A., Travlos I., **2014**. Phytochemistry and biological properties of burnet weed (*Sanguisorba* spp.): A Review. *Notulae Scientia Biologicae*. 6(4): 395-398.
 40. Bilalis D.J., Patsiali S., Kakabouki I., Travlos I.S., **Karkanis A.**, **2015**. Effects of cropping system (organic and conventional) on the fiber quality index, spinning consistency index and multiplicative analytic hierarchy process of cotton (*Gossypium hirsutum* L.). *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 43(2): 388-391.
 41. Kakabouki I., **Karkanis A.**, Travlos I.S., Hela D., Papastylianou P., Wu H., Chachalis D., Sestras R., Bilalis D., **2015**. Weed flora and seed yield in quinoa crop. (*Chenopodium quinoa* Willd.) as affected by tillage systems and fertilization practices. *International Journal of Pest Management*. 61: 228-234.
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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 21th 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 21th 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 21th 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 20th 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 20th 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 SeO₂ on the growth, production, nutritional status and photosynthetic capacity of hydroponically cultivated common purslane. *Proceedings of the 31th 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 31th Conference of Greek Association of Horticultural Science*. 29 October to 2 November 2023. Heraklion. p. 237 (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 10th International Symposium "Prospects for the 3rd Millennium Agriculture"*. 29th September – 1st 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 10th International Symposium "Prospects for the 3rd 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 10th International Symposium "Prospects for the 3rd Millennium Agriculture. 29th September – 1st 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 13th International Symposium "Prospects for the 3rd Millennium Agriculture. 25th-27th 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 13th International Symposium "Prospects for the 3rd Millennium Agriculture. 25th-27th 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. 5th-7th 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 14th International Symposium "Prospects for the 3rd Millennium Agriculture. 24th-26th 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 14th International Symposium “Prospects for the 3rd Millennium Agriculture*. 24th-26th 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*. 19th to 23rd 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 52nd Croatian and 12th 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. pp. 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 30th 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 18th International Conference "Life Sciences for Sustainable Development"*, 26-28 September, 2019, Cluz-Napoca, Romania. pp. 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 19th International Conference "Life sciences for sustainable development"*. University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. 24-25 September 2020, Cluz-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). *20th International Congress of the International Society for Ethnopharmacology (ISE)*. 18-20 April 2021 (held on Virtual Congress Platform). p. 141.

Note: Papers 20-25 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 20th International Conference "Life sciences for sustainable development"*. University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. 23-24 September 2021, Cluz-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 19th European Weed Research Society Symposium*. 20-23 June 2022, Athens, Greece. pp. 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 19th 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. pp. 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. pp. 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

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

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/September 2024

Total number of citations in Scopus: 2139.

Total number of citations in Google Scholar: 3792.

H-index in Scopus: 27.

H-index in Google Scholar: 35

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2,139

Citations by 1,740 documents

86

Documents

27

h-index [View *h*-graph](#)

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Document & citation trends

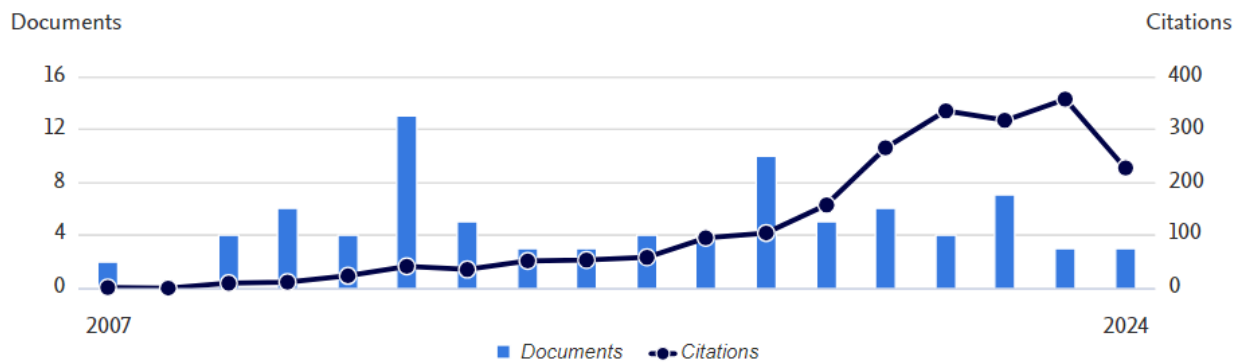


Figure 1. Number of publications and citations per year (Scopus, September 2024).

17. Reviewer

Reviewer in 72 International Scientific Journals (Web of Science, <https://www.webofscience.com/wos/author/record/W-9775-2019>, September 2024).




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Identifiers

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Published names

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

Peer Review Metrics

262

Verified Peer
Reviews
Median: 4
99th percentile

16

Verified Peer
Reviews (Last 12
Months)
Median: 0
98th percentile

3.4:1

Peer Review to
Publication Ratio
Median: 0.3:1

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

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).
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 2020/2021: 3,417). (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 2020/2021: 3,417). (https://www.mdpi.com/journal/agronomy/special_issues/Cultivation-weeds)