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Languages:

Persian (Native)
 English (Advanced)
 Norwegian (Intermediate)
 Danish (Basic)



Work Experience

2022- **Researcher**- Norwegian Institute of Bioeconomy Research (NIBIO), Ås, Norway
 2024 **Guest Researcher**- University of Copenhagen, Tåstrup, Denmark
 2020- 2022 **Postdoc**- Norwegian Institute of Bioeconomy Research (NIBIO), Ås, Norway
 2017- 2020 **Academic Employee/Research Assistant**- University of Copenhagen, Tåstrup, Denmark
 2016- 2017 **Guest PhD student**- University of Copenhagen, Tåstrup, Denmark
 2014- 2016 **Guest PhD student**- Agricultural Biotechnology Research Institute of Iran, Karaj, Iran
 2011- 2012 **Research Assistant**- Seed and Plant Improvement Institute, Karaj, Iran
 2010- 2011 **Guest MSc student**- Seed and Plant Improvement Institute, Karaj, Iran
 2008- 2009 **Internship**- Agriculture and Natural Resources Engineering Organization of Iran, Tehran, Iran

Education

2012- 2018 **PhD in Agronomy**- Shahrood University of Technology, Shahrood, Iran
 2009- 2011 **MSc in Agronomy**- Science and Research Branch- Azad University, Tehran, Iran
 2007- 2011 **BSc in English Language- Teacher training**- South Tehran Branch- Azad University, Tehran, Iran
 2003- 2007 **BSc in Plant Protection**- Science and Research Branch- Azad University, Tehran, Iran

Projects:

2021- ongoing Herbicide testing in cereals, oilseed- and protein- crops (In collaboration with plant protection companies and Norwegian Agricultural Extension Service (Norsk Landbruksrådgiving- NLR))- **Activity leader**
 2025-2028 AGROSOIL- Agro-Ecological Soil Optimization for Integrated Weed Management- **National project manager** (EU-project)
 2024 Survival of weed seeds in biogas production process- **Project manager** (Assignment Project)
 2024 Method development for treating soil infested with alien species- **WP leader**
 2024-2025 LAKOTET- Low-risk pesticides against pests in cereals and potatoes in Norway- Research involvement

2023-2026	Weeds vs. Crops: The Winner of Climate Change- PI & Project manager https://www.nibio.no/en/projects/weeds-vs-crops-the-winner-of-climate-change?locationfilter=true
2023-2024	Contaminants in Norwegian honey – herbicide (Clopyralid) and toxic plant compounds (Pyrrolizidine Alkaloids)- PI & Project manager
2022	Control of garden lupine (<i>Lupinus polyphyllus</i>) in connection with the restoration of habitat for the large scabious mining bee (<i>Andrena hattorfiana</i>)- Project manager (Assignment Project)
2022- 2024	Chlorophyll fluorescence measurement- a rapid and cost-effective tool for detection of herbicide resistance in fields- Research involvement
2021- 2025	ResourceReturn- New steam technology converts biologically contaminated soil masses and plant wastes into new resources- Task leader
2021- 2024	IAS/EcoSystemCARE- An integrated approach to ecosystems protection against invasive alien plants in southern Poland- Research involvement
2020- 2022	BIOIMMIGRANTS- Innovative approaches and technologies to manage invasive alien species threatening biobased production- Postdoc project
2019- 2020	Clopyralid in honey- Research involvement
2018- 2019	Use of drones and imaging to assist site-specific application of growth regulators- Research involvement
2017- 2020	Sweedhart- Separation of weeds during harvesting and hygienisation to enhance crop productivity in the long term- Research involvement
2014- 2017	Ecophysiological evaluation of fenugreek ecotypes response to late season water stress under biochar application and non-application conditions- PhD project
2010- 2011	Nitrogen rates effects on qualitative and quantitative traits of spring safflower under different temperature regimes- MSc project

Supervision and Teaching

2022-	Co-supervision- PhD student: 1, Master student: 2, Bachelor student: 1 Norwegian Institute of Bioeconomy Research (NIBIO), Ås, Norway
2018- 2019	Co-supervision (unofficial)- 4 Master students University of Copenhagen, Tåstrup, Denmark
2018- 2019	Teaching Assistant- “Weed Biology and Management” at Master level University of Copenhagen, Tåstrup, Denmark
2013- 2014	Teaching Assistant- “Crop Ecophysiology” at Bachelor and Master level Shahrood University of Technology, Shahrood, Iran

Track Record **H-index: Google Scholar (15) - Web of Science (8)**

Journal Papers

1. Bitarafan Z., W. Kaczmarek-Derda, R. de Andrade Moral, T.W. Berge, P.A. Rivier, Christian Andreasen (2025) Steaming and composting eliminate barnyard grass (*Echinochloa crus-galli*) seeds in infested biowaste substrates. Weed Science. 2025;73(1):e52.

2. Bitarafan Z., M.H. Mageroy, R. de Andrade Moral, N. Salehan, K.S. Nielsen, Christian Andreasen (2025) The effect of climate change on glyphosate control of *Avena fatua*, *Brassica napus*, and *Echinochloa crus-galli*. Science of the Total Environment 983 (2025) 179682.
3. Bitarafan Z., W. Kaczmarek-Derda, T.W. Berge, I.S. Fløistad, C. Andreasen (2025) Steaming soil is effective in eliminating invasive alien plants (IAPs) – part II: effect of soil type. Pest Management Science. <https://doi.org/10.1002/ps.8903>.
4. Bitarafan Z., W. Kaczmarek-Derda, T.W. Berge, C.E. Øyri, I.S. Fløistad (2025) Steaming Soil Is Effective in Eliminating Invasive Alien Plants (IAPs) – Part I: Effect of Exposure Method. Pest Management Science. 81(4): 2032-2039.
5. Bitarafan Z., C. Glasner, C. Andreasen (2023) Weed seeds in pelletized chaff do not germinate. Advances in Weed Science, 41: e020230002.
6. Andreasen C., J. Rasmussen, Z. Bitarafan (2023) Site-Specific Seed Yield Prediction of Red Fescue (*Festuca rubra* L.) Based on Drone Imaging and Local Regression Models. Agronomy, 13 (2), 316.
7. Mirahmad M., S. Mohseni, O. Tabatabaei Malazy, F. Esmaeili, S. Alatab, R. Bahramsoltani, H S. Ejtahed, H. Qulami, Z. Bitarafan, B. Arjmand, E. Nazeri (2023) Antioxidative Hypoglycemic Herbal Medicines with in vivo and in vitro Activity against C-reactive Protein; A Systematic Review. Phytomedicine 109, 154615.
8. Bitarafan Z., C. Andreasen (2022) Fecundity Allocation in Some European Weed Species Competing with Crops. Agronomy, Special Issue Weed Population Dynamics, 12(5), 1196.
9. Hansted L., C. Crocoll, Z. Bitarafan, C. Andreasen (2022) Clopyralid Applied to Winter Oilseed rape (*Brassica napus* L.) Contaminates the Food Products Nectar, Honey and Pollen. Food Control, 140, 109124.
10. Bitarafan Z., W. Kaczmarek-Derda, T.W. Berge, K.S. Tørresen, I.S. Fløistad (2022) Soil Steaming to Disinfect *Echinochloa crus-galli*-Infested Soil Masses. Weed Technology, 36(1): 177-185.
11. Bitarafan Z., W. Kaczmarek-Derda, L.O. Brandsæter, I.S. Fløistad (2021) Stationary Soil Steaming to Combat Invasive Plant Species for Soil Relocation. Invasive Plant Science and Management, 14: 164-171.
12. Bitarafan Z., C. Andreasen (2020) Seed Retention of Ten Common Weed Species at Oat Harvest Reveals the Potential for Harvest Weed Seed Control. Weed Research, 60(5): 343-352.
13. Bitarafan Z., C. Andreasen (2020) Seed Production and Retention at Maturity of Blackgrass (*Alopecurus myosuroides*) and Windgrass (*Apera spica-venti*) at Wheat Harvest. Weed Science, 68(2): 151-156.
14. Bitarafan Z., C. Andreasen (2020) Harvest Weed Seed Control: Seed Production and Retention of *Fallopia convolvulus*, *Sinapis arvensis*, *Spergula arvensis* and *Stellaria media* at Spring Oat Maturity. Agronomy, 10(1): 46.
15. Shumilina E., C. Andreasen, Z. Bitarafan, A. Dikiy (2020) Determination of Glyphosate in Dried Wheat by ¹H-NMR Spectroscopy. Molecules, 25(7): 1546.
16. Bitarafan Z., S.M. Jensen, F. Liu, C. Andreasen (2019) Intercropping Fenugreek (*Trigonella foenum-graecum* L.) and Barley (*Hordeum vulgare* L.) with and without Biochar: Tests along a Competition Gradient. Journal of Agronomy and Crop Science, 205 (1): 99-107.
17. Glasner C., C. Vieregge, J. Robert, J. Fenselau, Z. Bitarafan, C. Andreasen (2019) Evaluation of New Harvesting Methods to Reduce Weeds on Arable Fields and Collect a New Feedstock. Energies, 12(9): 1688.
18. Bitarafan Z., J. Rasmussen, J.C. Westergaard, C. Andreasen (2019) Seed yield and lodging assessment in red fescue (*Festuca rubra* L.) sprayed with trinexapac-ethyl. Agronomy, 9(10): 617.
19. Jakobsen K., J.A. Jensen, Z. Bitarafan, C. Andreasen (2019) Killing Weed Seeds with Exhaust Gas from a Combine Harvester. Agronomy, 9(9): 544.
20. Bitarafan Z., F. Liu, C. Andreasen (2019) The Effect of Different Biochars on the Growth and Water Use Efficiency of Fenugreek (*Trigonella foenum-graecum* L.) Journal of Agronomy and Crop Science. 206: 169-175.
21. Bitarafan Z., H.R. Asghari, T. Hasanloo, A. Gholami, F. Moradi (2019) Fenugreek (*Trigonella foenum graecum*) Ecotypes Response to Biochar Application under Deficit Irrigation. Journal of Agroecology, 11(2): 403-415. (in Persian, English abstract)
22. Bitarafan Z., H.R. Asghari, T. Hasanloo, A. Gholami, F. Moradi (2018) Biochar Effect on Seed Trigonelline Content of Fenugreek (*Trigonella foenum-graceum* L.) Ecotypes under Deficit Irrigation. Iranian Journal of Medicinal and Aromatic Plants, 34(1): 155-165 (in Persian, English abstract)
23. Andreasen C., Z. Bitarafan, J. Fenselau, C. Glasner (2018) Exploiting Waste Heat from Combine Harvesters to Damage Harvested Weed Seeds and Reduce Weed Infestation. Agriculture, 8(3): 42.

24. **Bitarafan Z.**, H.R. Asghari, T. Hasanloo, A. Gholami, F. Moradi, B. Khakimov, F. Liu, C. Andreasen (2019) The Effect of Charcoal on Medicinal Compounds of Seeds of Fenugreek (*Trigonella Foenum-Graecum* L.) Exposed to Drought Stress. *Industrial Crops and Products*. 131: 323-329.
25. Tavakoli H., H. Rostami, A. Zabihi, S.G. Hashemi, **Z. Bitarafan** (2014) A Survey of Aflatoxins, Ochratoxin and Zearalenone Contamination in Imported and Iranian Rice in Iran. *Agricultural Engineering Research Journal*, 4(3): 61-64
26. Shirani Rad A.H., **Z. Bitarafan**, F. Rahmani, T. Taherkhani, A. Moradi Aghdam, S. Nasr Esfahani (2014) Effects of Planting Date on Spring Rapeseed (*Brassica napus* L.) Cultivars under Different Irrigation Regimes. *Turkish Journal of Field Crops*, 19(2): 153-157.
27. Shirani Rad A.H., **Z. Bitarafan**, F. Rahmani, T. Taherkhani, A. Moradi Aghdam, S. Nasr Esfahani (2014) Evaluation of Spring Rapeseed (*Brassica napus* L.) Cultivars for Different Planting Dates and Irrigation Regimes. *Journal of Animal and Plant Sciences*, 24(4): 1166-1172.
28. Shirani Rad A.H., **Z. Bitarafan**, A. Dehshiri (2013) Application of Super Absorbent Polymers with Nitrogen Fertilizer in Rapeseed (*Brassica napus* L.) Production under Different Irrigation Regimes. *Indian journal of agricultural research*, 47(3): 220-225.
29. Golzarfar M., A.H. Shirani Rad, B. Delkhosh, **Z. Bitarafan** (2012) Safflower (*Carthamus tinctorius* L.) Response to Different Nitrogen and Phosphorus Fertilizer Rates in Two Planting Seasons. *Žemdirbystė= Agriculture*, 99(2): 159-166.
30. Eskandari Zanjani K., A.H. Shirani Rad, **Z. Bitarafan**, A. Moradi Aghdam, T. Taherkhani, P. Khalili (2012) Physiological Response of Sweet Wormwood to Salt Stress under Salicylic Acid Application and Non Application Conditions. *Life Science Journal*, 9(4): 4190-4195.
31. Karbalaei S., A. Mehraban, H.R. Mobasser, **Z. Bitarafan** (2012) Sowing Date and Transplant Root Size Effects on Transplanted Sugar Beet in Spring Planting. *Annals of Biological Research*, 3(7): 3474-3478.
32. **Bitarafan Z.**, A.H. Shirani Rad (2012) Water Stress Effect on Spring Rapeseed Cultivars Yield and Yield Components in Winter Planting. *International Journal of the Physical Sciences*, 7(19): 2755-2767.
33. **Bitarafan Z.**, A.H. Shirani Rad, B. Delkhosh (2012) Changes in Yield and Morphologic Traits of Spring Safflower as Affected by Nitrogen Rates and Sowing Dates. *Advances in Environmental Biology*, 6(1): 72-78.
34. Delkhosh B., A.H. Shirani Rad, **Z. Bitarafan**, G. Mousavi Nejad (2012) Drought Stress and Sowing Date Effects on Yield and some Grain Traits of Rapeseed Cultivars. *Advances in Environmental Biology*, 6(1): 49-55.
35. **Bitarafan Z.**, A.H. Shirani Rad, B. Delkhosh (2011) Spring Safflower Yield and Yield Components Response to Nitrogen Rates under Different Temperature Regimes. *International Journal of Science and Advanced Technology*, 1(7): 26-31.
36. **Bitarafan Z.**, A.H. Shirani Rad, B. Delkhosh (2011) Nitrogen Rates and Sowing Date Effect on Yield and Oil Content of Spring Safflower. *International Journal of Science and Advanced Technology*, 1(6): 25-30.

Conference Papers and Abstracts

1. **Bitarafan Z.**, Magerøy M.H., Andrade Moral R., Salehan N., Nielsen K.S., Andreasen C. (2025). Does climate change require adjustment of glyphosate dose? 20th European Weed Research Society Symposium., 1-4 July, Lleida, Spain.
2. Baraibar B., **Bitarafan Z.**, Gonzalez-Andujar J.L., Hernandez Plaza E., Hofmeijer M., Medina S., Pascual S., Ringselle B., Santin I., ten Brummelhuis A., Zira S. (2025) Agro-ecological soil optimization for integrated weed management - an introduction to the European AGROSOIL project. 20th European Weed Research Society Symposium., 1-4 July, Lleida, Spain.
3. **Bitarafan Z.**, Solli L. (2025) Survival of *Echinochloa crus-galli* and *Avena fatua* seeds in anaerobic digestion. 20th European Weed Research Society Symposium., 1-4 July, Lleida, Spain.
4. Jasinska A., Kaczmarek-Derda W., **Bitarafan Z.** (2025) Weed seed reference collection for important Norwegian weeds. 20th European Weed Research Society Symposium., 1-4 July, Lleida, Spain.
5. Dybing I., Hanslin H.M., Torre S., de Andrade Moral R., **Bitarafan Z.** (2025) Estimating differential effects of climate change on competitive ability of two annual grass weeds against wheat. 20th European Weed Research Society Symposium., 1-4 July, Lleida, Spain.
6. **Bitarafan Z.**, Salehan N., Nielsen K.S., Andreasen C. (2024) Climate Changes Require Adjustment of Glyphosate Doses to Achieve the Same Control Level of Noxious Weeds. 1st Nordic-Baltic REACH

conference, Resolving environmental and climate change issues in agriculture. Nordic Association of Agricultural Science, 8-9 October, Vilnius, Lithuania.

7. Bitarafan Z., Almvik M., Dahle B., Crocoll C., Andreasen C. (2024) Pyrrolizidine Alkaloids and Clopyralid Contamination in Honey- Case Study in Norway. 10th European Congress of Apidology (EURBEE), 16-19 September Tallinn, Estonia

8. Bitarafan Z., Kaczmarek-Derda W., Berge T.W., Fløistad I.S. (2024) Soil Steaming to Combat Invasive Alien Plants. ECCB 2024, 7th European Congress of Conservation Biology "Biodiversity positive by 2030", 17-21 June Bologna, Italy

9. Bitarafan Z., Almvik M., Dahle B., Crocoll C., Andreasen C (2024) Pyrrolizidine Alkaloids and Clopyralid Contamination in Honey- Case Study in Norway. NBARS Nordic-Baltic apicultural research symposium, 21-22 March Vilnius, Lithuania

10. Andreasen C., J. Rasmussen, **Z. Bitarafan** (2023) Site-Specific Yield Prediction of Red Fescue (*Festuca rubra* L.). 14th European conference on precision Agriculture, 2-6 July Bologna, Italy

11. Bitarafan Z., V. S. Moen, O. Hetland, I. S. Fløistad (2023) Management of *Lupinus polyphyllus* to Restore the Habitat for *Knautia arvensis*. Workshop of the EWRS Working Group 'Weed Vegetation and Biodiversity', 10-12 May Prague, Czech Republic

12. Bitarafan Z., W. Kaczmarek-Derda, T.W. Berge, L.O. Brandsæter, K.S. Tørresen, I.S. Fløistad (2022) Soil Steaming to Kill Barnyard Grass Seeds in Contaminated Soils. 8th International Weed Science Congress "Weed Science in a Climate of Change", 4-9 December Bangkok, Thailand

13. Bitarafan Z., C. Glasner, C. Andreasen (2022) Killing Weed Seeds in Chaff by Pelletizing Chaff for Further Utilization. 8th International Weed Science Congress "Weed Science in a Climate of Change", 4-9 December Bangkok, Thailand

14. Bitarafan Z., E. Strand, P. Rydahl, K.S. Tørresen (2022) Field Validation of VIPS-weeds Decision Support System for Weed Management in Norway. 8th International Weed Science Congress "Weed Science in a Climate of Change", 4-9 December Bangkok, Thailand

15. Bitarafan Z., W. Kaczmarek-Derda, C.E. Øyri, I.S. Fløistad (2022) Steam Treatment for Sustainable Control of Bohemian Knotweed in Soil Masses. at 12th International Conference on Biological Invasions, 12-16 September Tartu, Estonia

16. Bitarafan Z., W. Kaczmarek-Derda, C. E. Øyri, I. S. Fløistad (2022) Steam Soil Disinfestation to Control *Bromus sterilis* and *Echinochloa crus-galli*, 19th European Weed Research Society Symposium, 20-23 June Athens, Greece

17. Bitarafan Z., Andreasen C. (2022) *Alopecurus myosuroides* Seed Production and Shedding Pattern, 19th European Weed Research Society Symposium, 20-23 June Athens, Greece

18. Andreasen C., **Z. Bitarafan** (2022) The potential for Harvest Weed Seed Control (HWSC) of Common Weed Species in Denmark, 19th European Weed Research Society Symposium, 20-23 June Athens, Greece

19. Hansted L., C. Andreasen, **Z. Bitarafan** (2022) Clopyralid a threat to beekeeping. NBARS Nordic-Baltic apicultural research symposium, 7-8 April 2022

20. Bitarafan Z., C. Glasner, Fenselau J., C. Andreasen (2019) Destroying Weed Seeds with Exhaust Gas from a Combine Harvester, 3rd Global Congress on Plant Biology and Biotechnology, 11-13 March Singapore, Singapore

21. Andreasen C., **Z. Bitarafan**, J.C. Westergaard and J. Rasmussen (2019) Using Drone Imagery to Estimate Lodging in Red Fescue (*Festuca rubra*). EGF-EUCARPIA Joint Symposium. 24-27 June, Zurich, Switzerland

22. Andreasen C., **Z. Bitarafan**, S. Azim and J. Rasmussen (2019) Measuring Height of Grass Crops Using Drone Imagery. EGF-EUCARPIA Joint Symposium. 24-27 June. Zurich, Switzerland.

23. Andreasen C., **Z. Bitarafan** (2019) Seed Shattering of *Bromus Hordeaceus* L. during the Growth Season of Winter Wheat, 3rd Global Congress on Plant Biology and Biotechnology, 11-13 March Singapore, Singapore

24. Bitarafan Z., C. Andreasen (2018) Seed Production and Seed Shattering of Black-grass (*Alopecurus myosuroides*) in Winter Wheat. 18th European Weed Research Society Symposium. 17-21 June Ljubljana, Slovenia

25. Glasner C., C. Andreasen, C. Vieregge, A. Dikiy, J. Fenselau, **Z. Bitarafan**, E. Shumilina (2018) Adaptions of Harvesting Methods and Concepts in order to Reduce Weeds on Agricultural Fields and to Gain Potentially a so far Unexploited Biomass Feedstock. 26th European Biomass Conference and Exhibition. 14-17 May, Copenhagen, Denmark

26. Bitarafan Z., H.R. Asghari, T. Hasanloo, A. Gholami, F. Moradi (2017) The Effect of High Concentration of Biochar on Yield Components of Water Stressed and Irrigated Fenugreek (*Trigonella foenum-graceum*). 18th International Plant Nutrition Colloquium. 21-24 Aug. Copenhagen, Denmark

27. Bitarafan Z., H.R. Asghari, T. Hasanloo, A. Gholami, F. Moradi (2017) Effect of Biochar Application on Yield and Yield Components of Fenugreek Ecotypes under Different Irrigation Regimes. National Conference on Medicinal Plants, 8-9 March Shahrood, Iran (in Persian, English abstract)

28. Khourgami A., M. Rafiee, H. Jafari, Z. Bitarafan (2012) Effect of Transplant Preparation Method on Yield and Agronomic Traits of True Potato Seed (TPS) Progenies in Sahneh Region. ICABBBE 2012: International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering (World Academy of Science, Engineering and Technology 67 2012) July 2012, Zurich, Switzerland

Invited Presentations

1. 7th European Congress of Conservation Biology “Biodiversity positive by 2030” 2024, Bologna, Italy: “Soil Steaming to Combat Invasive Alien Plants”

2. NIBIO-konferansen 2022, Norge: “Ugras eller kulturplanter- vinneren av klimaendringene”

3. Møte om fellesfinansierte plantevernforsøk med Norsk Plantevernforening (NPLF), Norwegian Agricultural Extension Service (Norsk Landbruksrådgiving- NLR) og NIBIO 2021, Norge: “Resultater fra veiledningsforsøk mot ugras i bygg og vårhvete”

4. DanSeed Symposium 2018, Denmark: “Weed seed shattering during the growing season”

Scientific Popular Articles and News:

1. Lovende resultater ved bruk av vanddamp mot skadelige planter. NIBIO News. Published 11.04.2025

2. Ønsker omfattende kartlegging av plantevernmidler i norsk honning. NIBIO News. Published 11.06.2024

3. Slik kan problemmasser gjøres til en ressurs. Bondebladet. Published 24.11.2022.

4. Sprøyting med klopuralid kan gi rester av ugrasmidler i honning- NIBIO News. Published 13.10.2022.

5. Slik kan du begrense spredning av burot- NIBIO News. Published 27.05.2022.

6. Clopyralid i blomsterprodukter fra vinterraps, Tidsskrift for Biavl, Danmarks Biavlerforening. Published 01.2022.

Public Reports:

1. “Biologisk veiledningsprøving 2023. Ugrasmidler”- NIBIO Rapport, 10 (137), 2024, 134 s.

2. “Biologisk veiledningsprøving 2022. Ugrasmidler”- NIBIO Rapport, 9 (160), 2023, 186 s.

3. “Biologisk veiledningsprøving 2021. Ugrasmidler”- NIBIO Rapport, 8 (108), 2022, 130 s.

Awards:

1. Agriculture 2021-2022 Travel Awards for junior scientists, MDPI, Switzerland, 2021

2. Visiting research scholarship by Science, Research and Technology Ministry of Iran, 2016

3. Visiting research scholarship by Iran's National Elites Foundation, 2016

4. Membership of Iran's National Elites Foundation, 2015 and 2016

5. Top PhD and MSc student (ranked 1 among the peer group)

Referee in International Journals

Agricultural Water Management (Elsevier), Agriculture (MDPI), Agronomy (MDPI)

Scientific Societies

1. Norwegian Botanical Association (2024-)- Member

2. European Weed Research Society (EWRS) (2017-)- Member

3. EU COST Network: CA21134 TOP-AGRI-Network (Towards Zero Pesticide Agriculture: European Network for sustainability) (2022-2026)- Management Committee

4. Agriculture and Natural Resources Engineering Organization of Tehran, Iran (2003-2016)- Member