



## Behnam Kamkar



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### Personal

**Nationality:** Iranian

**Date of Birth:** 1 August 1975

**Family Status:** Married, 1 child

**National code:** 467-967293-5

**Last scientific degree:** Professor, Agroecology

### My Author's IDs

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### Educational history

**B.Sc.** of agronomy and plant breeding, Shar-e-kord University (Iran), 1994-2000. B.Sc. project: the principles of sustainable agriculture.

**M.Sc.** of agronomy on abiotic stresses, Ferdowsi University of Mashhad (Iran), 2000-2002.

**M.Sc. project:** Determination of the most sensitive developmental stage of wheat to salinity stress (under Supervisory of Dr. Mohammad Kafi).

**Ph.D.**, Agroecology, Ferdowsi University of Mashhad (Iran), 2002-2006.

**Ph.D. project:** Application of a system approach (simulation models) to evaluate potential yield and yield gap of Cumin and three millet species (A case study in Northern, Razavi, and Southern Khorasan provinces). (Under supervisory of Prof. A.R. Koocheki, and Dr. M. Nassiri Mahallati.)



### **Additional passed courses**

Modeling course in CSIC center of Cordoba University, Spain. Feb 2003- August 2004.

### **Work experience**

The faculty member of Gorgan University of Agricultural Sciences and Natural Resources (07 Nov 2005-08 March 2020)

The faculty member of the Ferdowsi University of Mashhad (08 March 2020-continues)

### **Training experiences**

#### **B.Sc. courses**

- 1- General Ecology
- 2- Industrial crops production
- 3- Dryland farming
- 4- Agricultural ecology
- 5- water-soil-plant relationship
- 6- The principles of Sustainable agriculture
- 7- Soil-water-plant relationships

#### **M.Sc. courses**

- 1- Cropping pattern design approaches
- 2- Advanced agroecology
- 3- Ecoagriculture principles
- 4- Research methods in agronomy
- 5- Research methods in Agroecology
- 6- Professional English Course
- 7- GIS application in Agriculture
- 8- Remote sensing in agriculture
- 9- landscape ecology

#### **Ph.D. courses**

- 1- Ecophysiology of competition between crops and weeds
- 2- Microclimatology
- 3- Agroecosystems evaluation
- 4- GIS and RS application in agriculture
- 5- Agroecosystems assessment
- 6- crop simulation modeling
- 7- Production ecology

### **Research interests**

- 1- Crop ecology and ecophysiology
- 2- Simulation models of crops growth and development
- 3- Sustaining environment to sustain agroecosystems
- 4- Sustainable Agroecosystems design and management
- 5- GIS and RS application in agriculture
- 6- Climate change effects on the agroecosystems



### **Other Experiences:**

- Associate Editor, International Journal of Plant Production, Springer.
- Member of the Editorial Board of the Iranian Journal of Applied Crop Research
- Member of the Editorial Board of the Journal of Advances in Plants & Agriculture Research (USA)
- Member of the Editorial Board of the Iranian Journal of Plant Production Research
- Member of the Editorial Board of the Iranian Journal of Crop Production (with Crop Science Society of Iran).
- Member of the Editorial Board of the Iranian Journal of Dryland Agriculture
- Member of the Editorial Board of the Iranian Journal of Crop Sciences (Crop Science Society of Iran)
- Instructor of the National Workshop on the Application of GIS in Agriculture (2020)
- Instructor of the National Workshop on Principles and Basics of Application of Crop Simulation Models (2021).
- Board Of Directors of Eco-agriculture Scientific Society of Iran.
- Winner of The best-translated book of Iranian students, 2002.
- Manager of research and education farms of Gorgan University of Agricultural Sciences and Natural Resources (GUASNR).
- Head of agronomy Dept., GUASNR (from 2006- Feb 2010).
- The member of the University Press commission, GUASNR.
- Scientific chief of 2<sup>nd</sup> National Congress of Ecological Agriculture, Held in GUASNR, 2007.
- Elite researcher of GUASNR, 2007, 2008, 2011, 2012, 2014, 2016.
- Elite researcher of Agrotechnology Dept., Ferdowsi University of Mashhad (2021).
- The member of the Elite committee of Crop Science college of GUASNR.
- Scientific member of 9<sup>th</sup> national crop science congress, be held in Sep 2008.
- The member of the Scientific member's selection committee of GUASNR (Agriculture branch)
- Winner of the yearbook of Khorasan, 2009& 2010.
- Head of Informatics and Computer Services Department, Gorgan University of Agricultural Sciences and Natural Resources (2012-2019).
- Board Of Directors of the Crop Science Society of Iran (CSSI). From 2022-continued

## Published Papers in Journals:

### Editorial Manuscripts:

- 1- **Kamkar, B.**, Green revolution and farmers welfare. 2015. *Advances in Plants & Agriculture Research*. 2(4): 00059. DOI: 10.15406/apar.2015.02.00059.
- 2- **Kamkar, B.**, 2016. Sustainable development principles for agricultural activities. *Advances in Plants & Agriculture Research*, 3(5): 00112. DOI: 10.15406/apar.2016.03.00112.
- 3- **Kamkar, B.**, 2016. Cropping Pattern Design: the steps and considerations. *Advances in Plants & Agriculture Research*. 4 (5): 00152. DOI: 10.15406/apar.2016.04.00152.
- 4- **Kamkar, B.**, 2016. Cropping Patterns: Some points need to be noted. *Advances in Plants & Agriculture Research*. 5 (4): 00191. DOI: 10.15406/apar.2016.05.00191.
- 5- **Kamkar, B.**, 2016. Agricultural Researches: A Revision is Needed. *Adv Plants Agric Res* 2014, 1(2): 000033. <http://dx.doi.org/10.15406/>.
- 6- **Kamkar, B.**, 2017. The Position of Land Use Planning in the Cropping Pattern Design. *Adv Plants Agric Res* 2017, 7(3): 00259. DOI: [10.15406/apar.2017.07.00259](http://dx.doi.org/10.15406/apar.2017.07.00259).
- 7- **Kamkar B.** 2018. Planning ahead, the only solution to sustain agricultural systems. *Adv Plants Agric Res*. 2018;8(3):251. DOI: 10.15406/apar.2018.08.00323
- 8- **Kamkar, B.**, 2019. Changing the attitude to production in agriculture is a necessity. *Adv Plants Agric Res* 2019, 9(2): 369-370. DOI: [DOI: 10.15406/apar.2019.09.00450](http://dx.doi.org/10.15406/apar.2019.09.00450)

### In English (ISI, Scopus Index, International)

1. **Kamkar, B.** , Koocheki, A.R. , Nassiri Mahallati, M. , Rezvani Moghaddam, P. 2006. Cardinal temperatures for germination in three millet species (*Panicum miliaceum*, *Pennisetum glaucum*, and *Setaria italica*). *Asian Journal of plant Science*.5 (2): 316-319.
2. **Kamkar, B.**, Koocheki, A.R., Nassiri Mahallati, M., Da Silve, J., Rezvanimoghaddam, P., Kafi, M. 2011. Fungal Diseases and Inappropriate Sowing Dates, The most Important reducing factors in cumin fields of Iran, A case study in Khorasan provinces. *Crop Protection*, 30: 208-215. (IF=1.493).
3. Schahbazian, N., Allahdadi, I., **Kamkar, B.** 2006. Evaluation of the possibility of amaranth production in arid and semi-arid of Iran. *Asian J.Plant Sci*. 2006.5(4): 316-319.
4. Soltani, E. , Galeshi, S., **Kamkar, B.**, Akramghaderi, F. 2008. Modeling seed aging effects on the response of germination to temperature in wheat. *Seed Science and Biotechnology*, vol 2(1), 32-36.
5. Soltani, E. , Galeshi, S., **Kamkar, B.**, Akramghaderi, F. 2009. The effect of seed aging on seedling growth as affected by the environmental. Factors in wheat. *Research Journal of Environmental Science*. 3 (2): 184-192.
6. Soltani, E. , Galeshi, S., **Kamkar, B.**, Akramghaderi, F. 2008. Modeling seed aging effects on the response of germination to temperature in wheat. *Seed Science and Biotechnology* 2(1).
7. **Kamkar, B.**, Ahmadi, M., Soltani, A., Zeinali, E. 2008. Evaluating Non-Linear regression models to describe the response of wheat emergence rate to temperature. *Seed Science and Biotechnology*. 2(2): 53-57.
8. **Kamkar, B.**, Vakili, Sh., Mirizadeh, A.B. 2009. Effects of salinity and temperature on germination of three millet varieties. *Seed Science and Biotechnology*. 3(2). 35-39.
9. Safahani Langeroodi, and **Kamkar, B.** 2009. Field Screening of canola (*Brassica napus*) cultivars against wild mustard (*Sinapis arvensis*) using competition indices and some empirical yield loss models in Golestan province, Iran. *Crop Protection* 28: 577-582. (IF=1.493).
10. Alavi, M., Ahmadikhah, A., **Kamkar, B.**, Kalateh, M. 2009. Mapping Rf3 locus in rice by SSR and CAPS markers. *Int. J. Genetics and Molecular Biology*, 1(7): 121-126.



11. Eshragh Nejad, M., **Kamkar**, B., Soltani, A. 2009. Cardinal temperatures and required biological days from sowing to the emergence of three millet species (common, foxtail, pearl millet). *Journal of Agricultural Science and Technology*, 3 (12), 36-43. (David Publishers).
12. Mokhtarpour, H., Teh, C.B.S., Saleh, G., Selamat, A.B., Asadi, M.E., **Kamkar**, B. 2010. Non-destructive estimation of maize leaf area, fresh weight, and dry weight using leaf length and leaf width. *Communications in Biometry and Crop Science*. 5(1): 19-26. SJR-INDEXED JOURNAL. (Q2: If=0.413)
13. Mahdavi-Damghani, A.M., **Kamkar**, B., Jami Al-Ahmadi, M., Testi, L., Muñoz-Ledesma, F., Villalobos, F.J. 2010. Water stress effects on growth, development and yield of the opium poppy (*Papaver somniferum* L.). *Agriculture Water Management*, 97, 1582-1590. (IF=2.286).
14. **Kamkar**, B., Daneshmand, A.R., Ghooshchi, F., Shiranirad, A.R., Safahani Langeoudi, A.R. 2011. The effects of Irrigation regimes and nitrogen rates on some agronomic traits of canola under a semiarid environment. *Agriculture Water Management*. 98: 1005-1012. (IF=2.286).
15. Rahemi-Karizaki, A., Galeshi, S., Soltani, A., **Kamkar**, B. 2010. Variation of Nitrogen Use Efficiency, Grain Protein Concentration and Yield in Wheat Cultivars in Temperate Sub Humid. *American-Eurasian J. Agric. & Environ. Sci.* 9 (1), 8-15.
16. Bakhshandeh, E., Ghadiryan, R., **Kamkar**, B. 2010. A Rapid and Non-Destructive Method to Determine the Leaflet, Trifoliolate and Total Leaf Area of Soybean. *The Asian and Australian Journal of Plant Science and Biotechnology*. 4(1): 19-23.
17. Eftekhari, M., Alizadeh, M., Mashayekhi, K., Asghati, H., **Kamkar**, B. 2010. Integration of Arbuscular Mycorrhizal Fungi To Grape Vine (*Vitis Vinifera* L.) In Nursery Stage. *Journal of Advanced Laboratory Research In Biology*. 1(2): 102-111.
18. Bakhshandeh, E., **Kamkar**, B., Tsialtas, J.T. 2011. Application of linear models for estimation of leaf area in soybean (*Glycine max* (L.) Merr. *Photosynthetica*, 49 (3): 405-416. (IF=1.409).
19. Rassam, Gh., Latifi, N., Soltani, A., **Kamkar**, B., 2011. Impact of crop management on weed species diversity and community composition of winter wheat fields in Iran. *Weed Biology and Management*, 11, 83-90. (IF=0.537).
20. Mokhtarpour, H., Teh, C.B.S., Saleh, G., Selamat, A.B., Asadi, M.E., **Kamkar**, B., Corn yield response to crowding stress and cropping season. *Archives of Agronomy and Soil Science*, 57 (8), 853-871. (IF=0.549).
21. Eshghi, L., Pouryousef, M., **Kamkar**, B. 2011. Quantification of stem Elongation rate in response to temperature and photoperiod by 24 multiplicative models. *International Journal of Plant Developmental Biology*, 5 (1), 67-72.
22. Eftekhari, M., **Kamkar**, B., Alizadeh, M., 2011. Prediction of leaf area in some Iranian table grape (*Vitis vinifera* L.) cutting by a non-destructive and simple method. *Science Research Reporter*. 1(3): 115-121.
23. Bidar Namani, F., Zarei, H., Mashayekhi, K., **Kamkar**, B. 2011. Leaf area, fresh weight and dry weight prediction models for ornamental plants *Ficus benjamina* (CV. Star Light). *Journal of Advanced Laboratory Research In Biology*, 2 (April 2011), 63-69.
24. Meghdadi, N., **Kamkar**, B., 2011. Land suitability analysis for cumin production in the North Khorasan province (Iran) using geographical information system. *International Journal of Agriculture and Crop Science*. 3(4): 105-110.
25. Meghdadi, N., **Kamkar**, B., Ghasemi, M., 2012. Using geographical Information System and Remote Sensing to Assess Wheat Fields suitability With Respect to Climatic and Topographic Affecting Factors. *The Asian and Australasian Journal of Plant Science and Biotechnology*. 6 (1): 62-67.
26. **Kamkar**, B., Jami Al-Ahmadi, M., Mahdavi Damghani, A.M., Villalobos, F.J., 2012. Quantification of the cardinal temperatures and thermal time requirement of opium poppy (*Papaver somniferum* L.) seeds to germinate using non-linear regression models. *Industrial Crops and Products*. 35: 192-198. (IF=2.837).
27. Kazemi Poshtmasari, H., Tahmasebi Sarvestani, Z., **Kamkar**, B., Shataei, Sh., Sadeghi, S. 2012. Comparison of interpolation methods for estimating pH and EC in agricultural fields of Golestan province (north of Iran). *Int. J. Agric. Crop. Sci.*



28. Ghorbani, M.H., **Kamkar**, B., 2012. The impact of sowing form and rate on spring wheat yield in saline soil condition of Golestan province of Iran. *Agronomy and Agroecology*.
29. Teixeira da Silva, Jaime, A., **Kamkar**, B., 2013. International collaboration, co-operation and partnerships in science writing in the Islamic Republic of Iran. *The Asian and Australian Journal of Plant Science and Biotechnology*. 7(1): 61-65.
30. Zeinvand Lorestani, E., **Kamkar**, B., Razavi, S.E., Teixeira da Silva, Jaime, A., 2013. Modeling and mapping diversity of pathogenic fungi of wheat fields using geographic information systems (GIS). *Crop Protection*, 54:78-83. (IF=1.493).
31. Safahani Langeroodi, A.R., **Kamkar**, B., Ataei, M., Teixeira da Silva, Jaime, A. 2013. Assessment of the Response of Sunflower Cultivars to Water Shortage Using Various Stress Tolerance Indices. *International Journal of Agronomy and Plant Production*. Vol., 4 (7), 1628-1636.
32. **Kamkar**, B., Dorri, M.A., Teixeira da Silva, Jaime, A. 2014. Assessment of land suitability and the possibility and performance of a canola (*Brassica napus* L.) – soybean (*Glycine max* L.) rotation in four basins of Golestan province, Iran. *The Egyptian Journal of Remote Sensing and Space Sciences*, 17: 95-104.
33. **Kamkar**, B., Akbari, F., Teixeira da Silva, Jaime, A., Movahedi Naeini, S.A., 2014. The Effect of Crop Residues on Soil Nitrogen Dynamics and Wheat Yield. *Advances in Plant and Agriculture Research*, 1 (1), 00004.
34. **Kamkar**, B., 2014. Agricultural researches: a revision is needed. *Advances in Plant and Agriculture Research*, 1 (1), 00003.
35. **Kamkar**, B., Safahani L., A., Teixeira da Silva, Jaime, A., Akbari Nodei, D., Lack, Sh., Ghooshchi, F., 2013. Study on Crop-Water Production Functions for Soybean in Mediterranean Climatic Conditions. *Scientific Journal of Agronomy and Plant Breeding*, 1(3): 6-21.
36. Safahani Langeroodi, A.R., **Kamkar**, B., Teixeira da Silva, Jaime, A., Ataei, M., 2014. Response of sunflower cultivars to deficit irrigation. *Helia*, 37 (60): 37-58. (SCOPUS-INDEXED)
37. Keramatlou, M. Sharifani, H. Sabouri, M. Alizadeh, B. **Kamkar**. 2015. A simple linear model for leaf area estimation in Persian walnut (*Juglans regia* L.). *Scientia Horticulturae*. 184: 36-39. (IF=1.365).
38. Feyzbakhsh, M., **Kamkar**, B., Mokhtarpour, H., and Asadi ME, 2015. Effect of soil water management and different sowing dates on maize yield and water use efficiency under drip irrigation system. *Archives of Agronomy and Soil Science*, 2015. (2-15). <http://dx.doi.org/10.1080/03650340.2015.1019345>. (IF=0.549)
39. Heidari, Z., **Kamkar**, B., Masoud Sinaki, J. 2014. Influence of Temperature on Seed Germination Response of Fennel. *Adv Plants Agric Res* 1 (5), 00032.
40. Heidari, Z., **Kamkar**, B., Masoud Sinaki, J. 2014. Determination of Cardinal Temperatures of Milk Thistle (*Silybum marianum* L.) Germination. *Adv Plants Agric Res* 1 (5), 00027.
41. Kazemi, H., **Kamkar**, B., Lakzaei, S., Badsar, M., Shahbyki, M. 2015. Energy flow analysis for rice production in different geographical regions of Iran. *Energy* 84, 390-396. (IF=4.844).
42. Pourfarid, A., **Kamkar**, B., Akbari, GA. 2014. The effect of density on yield and some agronomical and physiological traits of Amaranth (*Amaranthus* spp). *International Journal of Farming and Allied Sciences*. 3 (12): 1256-1259.
43. Safahani langeroodi, A., Dadgar, T., **Kamkar**, B., Teixeira da Silva, Jaime A., 2015. Evaluation of Genotoxic and Inhibitory Effects of Invasive Weed Wild Poinsettia (*Euphorbia heterophylla* Linn.) in Sunflower. *Helia*, 38 (62): 31-52. , DOI: 10.1515/helia-2014-0016. (SCOPUS-INDEXED)
44. Yousefi, M., **Kamkar**, B., Gherekhloo, J., Faez, R.. 2015. Sulfosulfuron persistence in the soil under different cultivation systems in wheat (*Triticum aestivum*). *PEDOSPHERE*, (ACCEPTED). (IF=1.5).
45. Esmaeilzadeh Moridani, M., **Kamkar**, B., Galeshi, S., Ghaderi-Far, F., Teixeira da Silva, J.A., 2015. Leaf Expansion and Transpiration Responses of Millet Species to Soil Water Deficit. *PEDOSPHERE*, 25 ( 6): 834-843. (IF=1.5).



46. Farzaneh, S., **Kamkar**, B., Ghaderi-FAR, F., Chegini, M. 2016. Effects of pollinator line characteristics on quantity and quality of monogerm hybrid seed production in sugar beet (*Beta vulgaris* L.). International Journal of Plant Production, 10 (1):13-28 (IF=0.76).
47. Nasrollahi, N., Kazemi, H., **Kamkar**, B. 2017. Feasibility of ley-farming system performance in a semi-arid region using spatial analysis. Ecological Indicators, 79: 239-248. (IF=3.19).
48. Abdi, O., **Kamkar**, B., Shirvani, Z., Teixeira da Silva, Jaimem A., and Buchroithner, M.F., 2016. Spatial-statistical analysis of factors determining forest fires: a case study from Golestan, Northeast Iran. Geomatics, natural hazards & risk, Page 1-14, DOI: 0.1080/19475705.2016.1206629. (ISI: If=1.3).
49. Sohrabi, S., Gherekhloo, J., **Kamkar**, B., Ghanbari, A., Rashed Mohassel, M.H., 2016. The phenology and seed production of *Cucumis melo* as an invasive weed in northern Iran. Australian Journal of Botany, 2016, 64, 227–234. (ISI: If=1.58).
50. Kazemi, H., Hassanpour Bourkheili, S., **Kamkar**, B., Soltani, A., Gharanjik, K., Nazari, N. 2016. Estimation of greenhouse gas (GHG) emission and energy use efficiency (EUE) analysis in rainfed canola production (case study: Golestan province, Iran) Energy, 116:694-700. (If=4.292)
51. Ansari, O., Gherekhloo, J., **Kamkar**, B., Ghaderi-Far, F. 2016. Breaking seed dormancy and determining cardinal temperatures for *Malva sylvestris* using nonlinear regression. Seed Sci. & Technol., 44, 3, 1-14. (If=0.66).
52. Zolfagharnejad, H., **Kamkar**, B., Abdi, O. 2017. Vegetation Index-Deduced Crop Coefficient of Wheat (*Triticum aestivum*) Using Remote Sensing: Case Study on Four Basins of Golestan Province, Iran. International Journal of Agricultural and Biosystem Engineering. 11(7). 498-501.
53. Maleki, F., Kazemi, H., Siahmarguee, A., **Kamkar**, B. 2017. Development of a land-use suitability model for saffron (*Crocus sativus* L.) cultivation by multi-criteria evaluation and spatial analysis. Ecological Engineering, 106:140-155. (If=2.74).
54. Safahani, A.R., **Kamkar**, B., Nabizadeh, A., 2017. Cardinal temperatures and thermal time required for the emergence of lentil (*Lens culinaris* Medik. Legume Research, 40(2):291-2982. (If=0.116). Q4.
55. Kazemi, H., Shokrgozar, M., **Kamkar**, B., Soltani, A., 2018. Analysis of cotton production by energy indicators in two different climatic regions. Journal of Cleaner Production. 190 (2018) 729e736. (IF=5.715).
56. Kazemi, H., Klug, H., **Kamkar**, B. 2018. New services and roles of biodiversity in modern agroecosystems: A review. Ecological Indicators, 93, 1126-1135. (ISI: If=3.983)
57. Pourhadian, H., **Kamkar**, B., Soltani, A., Mokhtarpour, H., 2019. Evaluation of forage maize yield gap using an integrated crop simulation model-satellite imagery method (Case study: Four watershed basins in Golestan province). Archives of Agronomy and Soil Science, 65(2): 253-258. (ISI: If=2.73).
58. Golmohammadzadeh, S., Gherekhloo, J., Rojano-Delgado, Antonia M., Osuna-Ruiz, M.D., **Kamkar**, B., Ghaderi-Far, F., De Prado, R., 2019. The First Case of Short-Spiked Canarygrass (*Phalaris brachystachys*) with Cross-Resistance to ACCase-Inhibiting Herbicides in Iran, Agronomy, 9(7), 377. <https://doi.org/10.3390/agronomy9070377>. (ISI: If=2.603)
59. Alizadeh dehkordi, P., Nehbandani, A., Hassanpour-bourkheili, S., **Kamkar**, B., 2020. Yield Gap Analysis Using Remote Sensing and Modelling Approaches: Wheat in the Northwest of Iran, International Journal of Plant Production, 14, 443–452.
60. Vahdatpour, F., Aroiee, H., Hemmati, Kh., **Kamkar**, B., Sheikh, F. 2021. Leaf Area Index, Dry Matter Accumulation and Allocation Trends in *Vicia faba* L. Affected by Inoculation with *Rhizobium* and *Pseudomonas*. Journal of Agricultural Science and Technology, 23 (4). (In Press). (ISI: If=0.889).
61. Hassanpour bourkheili, S., Gherekhloo, J., **Kamkar**, B., Ramezanzpour, S.S. 2021. No fitness cost associated with Asn-2041-Ile mutation in winter wild oat (*Avena ludoviciana*) seed germination under various environmental conditions, Scientific Reports, 11 (1): 572. <https://doi.org/10.1038/s41598-021-81310-8>. (ISI: IF=4.12)
62. Hassanpou bourkheili, S., Gherekhloo, J., **Kamkar**, B., Ramezanzpour, S.S. 2021. Mechanism and pattern of resistance to some ACCase inhibitors in winter wild oat (*Avena sterilis* subsp. *ludoviciana* (Durieu) Gillet &



- Magne) biotypes collected within canola fields, *Crop Protection*, (ISI: IF=2.381), <https://doi.org/10.1016/j.cropro.2021.105541>.
63. Kamkar, B., Razavi, S.E., Sadeghipour, H., López-Bernal, Álvaro., 2021. *Journal of Basic Microbiology*. 61(8): 721-735. <https://doi.org/10.1002/jobm.202100183>. (IF=2.7).
64. Delavaran, H., Kazemi, H., Kamkar, B., Gherekhloo, J., 2022. Development of a new model for health assessment in agroecosystems. *Environmental Monitoring and Assessment*. 10; 194(2):78. doi: 10.1007/s10661-022-09753-8. (IF=2.7).
65. Jokar, M., López-Bernal, Álvaro., Kamkar, B. 2022. The effect of spring flooding on management and distribution of cotton bollworm (*Helicoverpa armigera*) by flood mapping using SAR sentinel-1 and optical imagery Landsat-8; a case study in Golestan province, Iran. *International Journal of Pest Management*, <https://doi.org/10.1080/09670874.2022.2039798> (IF=1.907).
66. Alaaee Bazkiaee, P., Kamkar, B., Amiri, E., Kazemi, H., Rezaei, M., López-Bernal, Álvaro. 2022. The rice yield gap estimation using integrated system approaches a case study—Guilan province, Iran. *International Journal of Environmental Science and Technology*. <https://doi.org/10.1007/s13762-022-04093-z>.
67. Golmohammadzadeh, S., Gherekhloo, J., Osuna, M.D., Ghaderi-Far, F., Kamkar, B., Alcántara-de la Cruz, R., De Prado, R. Physiological Fitness Associated to ACCase target-site Resistance Enhances Growth and Reproduction in *Phalaris brachystachys*. 2022. *Agronomy* 2022, 12, 1206. <https://doi.org/10.3390/agronomy12051206> (IF=3.417).
68. Alizadeh-Dehkordi, P., Kamkar, B. & Nehbandani, A. The effect of climate change on the future of rainfed wheat cultivation in Iran. *Environ Dev Sustain* (2022). <https://doi.org/10.1007/s10668-022-02728-2>. (IF= 4.08)
69. Abshenas M, Kamkar B, Soltani A, Kazemi H. Predicting the effects of climate change on physiological parameters determining wheat yield in 2050 (case study: Golestan Province, Iran). *Environ Monit Assess*. 2022 Sep 6;194(10):734. doi: 10.1007/s10661-022-10428-7. PMID: 36068442. (IF= 3.307)
70. Kamkar, B., Razavi, S. E., Sadeghipour, H. R., López-Bernal, Á.. Would it be possible to use nonpathogenic fungi to improve the turnover of crop residues? *J Basic Microbiol*. 2021; 61: 721– 735. <https://doi.org/10.1002/jobm.202100183>. (IF= 2.65).
71. Daylam, F., Kazemi, H., Kamkar, B. 2023. Modelling organic farming suitability by spatial indicators of GIS integrated MCDA in Golestan Province, Iran. *NJAS: Impact in Agricultural and Life Sciences*, 95 (1), 2191796. <https://doi.org/10.1080/27685241.2023.2191796>. (IF= 8.69).
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**and more than 40 other papers**

### **3) International and national Congresses**

1. Determination of the most sensitive developmental stage of wheat (*Triticum aestivum*) to salt stress to optimize saline water utilization. 4<sup>th</sup> International Crop Science Congress (ICSC), 20 Sep to 1 Oct 2004, Brisbane, Queensland, Australia.
2. Evaluation of possibility of amaranth production in arid and semi-arid of Iran. Asian J. Plant Sci. 2005 (under press).
3. The relationship between corm weight and total flower and leaf number in saffron. 2th International Symposium on Saffron Biology and Technology (ISSBT), 28-30 October 2006, Mashhad, Iran.
4. The effect of corm weight and environmental temperature on flowering behavior of saffron. 2th International Symposium on Saffron Biology and Technology (ISSBT), 28-30 October 2006, Mashhad, Iran.
5. The study of relationship between development period and sensitivity of leaf photosynthesis and stomatal conductance to different salinity severity and exposure durations in wheat to improve saline water utilization. International Research on Food Security, Natural Resource Management and Rural Development, Prosperity and Poverty in a Globalized World, Challenges for Agricultural Research; University of Bonn, Bonn Institute of Crop Science and Resource Conservation; October 11 – 13, 2006.
6. Evaluation of cumin yield gaps by modeling approach. International Research on Food Security, Natural Resource Management and Rural Development, Prosperity and Poverty in a Globalized World, Challenges for Agricultural Research; University of Bonn, Bonn Institute of Crop Science and Resource Conservation; October 11 – 13, 2006.
7. Effects of salinity and temperature on germination of three millet varieties of semi-arid regions. 2008. 5<sup>th</sup> International Crop Science Congress, April 13-18, 2008, International Convention Center (ICC), Jeju, Korea.
8. Evaluation of competitive ability in some canola (*Brassica napus*) cultivars with wild mustard (*Sinapis arvensis*) and relationship with canopy structure. 2008. 5<sup>th</sup> International Crop Science Congress, April 13-18, 2008, International Convention Center (ICC), Jeju, Korea.
9. Constructing and evaluation of two mechanistic models to predict phenological stages of three millet varieties. 2008. 5<sup>th</sup> International Crop Science Congress, April 13-18, 2008, International Convention Center (ICC), Jeju, Korea.
10. Determination of competitive ability of canola cultivars against wild mustard (*Sinapis arvensis*) using some empirical models in Golestan province, Iran. 2008. 5<sup>th</sup> International Crop Science Congress, April 13-18, 2008, International Convention Center (ICC), Jeju, Korea.





11. Application of N and P Biofertilizers in Sustainable Nutrient Management of savory (*satureja hortensis*). 2008. Competition for Resource in a Changing World: New drive for Rural Development. October 7-9, 2008, Stuttgart-Hohenheim, Germany.
12. Sustainable Nutrient Management of Marjoram (*Origanum majorana L.*) through Biofertiliser and Manure Application. 2008. Competition for Resource in a Changing World: New drive for Rural Development. October 7-9, 2008, Stuttgart-Hohenheim, Germany.
13. The effects of Plant Density on Yield and Yield Components of Grain Amaranth. 2009. Biophysical and socio-economic frame conditions for the sustainable management of natural resources, October 6-8, 2009, University of Hamburg, Germany.
14. Modeling Seed Aging Effects on Wheat Emergence under Drought Stress Condition. 2009. Biophysical and socio-economic frame conditions for the sustainable management of natural resources, October 6-8, 2009, University of Hamburg, Germany.
15. Estimating the Range of Cardinal Temperatures, critical Photoperiod and Photoperiod sensitivity Coefficients of Seven Wheat Cultivars. 2009. Biophysical and socio-economic frame conditions for the sustainable management of natural resources, October 6-8, 2009, University of Hamburg, Germany.
16. Non-Destructive Estimation of Maize Leaf Area, Fresh Weight, and Dry Weight Using Leaf Length and Leaf Width. 2009. Agriculture Congress, 27-29 oct 2009, Seri Kembangan Selangor, Malaysia.
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21. Akbari, F., **Kamkar**, B., Movahedi Naeini, S.A.R. 2010. The effect of crop residues on the dynamism of soil microbial communities. Tropentag 2010. Zurich, Switzerland.
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26. Kazemi Poshtmasari, H., Tahmasebi Sarvestani, Z., **Kamkar**, B., Shataei, Sh., Sadeghi, S. 2012. Comparison of interpolation methods for estimating N, P, and K in agricultural lands of Golestan province, north of Iran. 8<sup>th</sup> International Soil Science Congress "Land degradation and Challenges in Soil management", 15-17 May 2012, Cesme\_Izmir, Turkey.
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4. Koocheki, A., Jami-Al-Ahmadi, M., **Kamkar**, B., and Mahdavi Damghani, A. 1999. Ecological principles of agriculture. Powers, L., McSorley, R., Thomson Delmar Learning. JDM Press.
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### **Book chapters:**

- 1-** **Kamkar**, B. 2016. Crop rotations, In: Sustainable Production of Crops - General Agriculture), Chapter 18. 30 p. University Publication Center. 40 pages. (In Persian)
- 2-** Mahdavi Damghani, A., **Kamkar**, B., Jami Al-Ahmadi, M. 2014. Production of medicinal plants in organic farming systems. In: Medicinal plants (ecology, production, and sustainable use). University of Tehran Press (In Persian).
- 3-** **Kamkar**, B., Mahdavi Damghani, A. 2014. Evaluation of land suitability and potential yield of medicinal plants using new approaches. Medicinal plants (ecology, production, and sustainable use). University of Tehran Press. (22 p.) (In Persian).
- 4-** **Kamkar**, B., 2023. Agriculture and eco-friendly food systems. In: Arid regions agroecology (Koocheki et al.). Vol(2), Chapter 28. 25p. (In Persian).
- 5-** **Kamkar**, B., Alaaee Bazkiaee, P., Alizadeh Dehkordi, P. 2023. Land use planning and agroecological zoning. In: Arid regions agroecology (Koocheki et al.). Vol(2), Chapter 30. 2p. (In Persian).



### Postgraduate projects (Thesis):

Row	Student Name	Title	Supervisor	Co-Supervisor	Date	Education Level	Institute
1	Vahid Maddah Yazdi	Comparative physiology of growth, development, and yield formation in wheat and chickpea	Soltani, A	<b>Kamkar, B,</b> and Zeinali, E	2007	M.Sc.	The Gorgan University of Agricultural Science and Natural Resources (GUANSR)
2	Fatemeh Mirdavar Doost	Quantifying vernalization response in some Iranian wheat	Soltani, A	<b>Kamkar, B,</b> and Zeinali, E	2007	M.Sc.	GUANSR
3	Hoda Abadian	The effect of late sowing date and plant density on quantitative and qualitative characteristics of Canola (RGS-003) in Gorgan	Latifi, N	<b>Kamkar, B,</b> and Zeinali, E	2007	M.Sc.	GUANSR
4	Mansoureh Ahmadi	Predicting phenological development in wheat ( <i>Triticum aestivum</i> L.).	<b>Kamkar, B</b>	Soltani, A, and Zeinali, E	2008	M. Sc	GUANSR
5	Elias Soltani	The effect of seed deterioration on the response of seedling growth to environmental stresses in wheat	Galeshi, S, and <b>Kamkar, B</b>	Akram Ghaderi-Far, F.,	2008	M.Sc.	GUANSR
6	Abbasali Soleymani	Effect of planting and harvesting date on quantitative and qualitative yield of Pea Millet ( <i>Pennisetum glaucum</i> )	<b>Kamkar, B</b>	Zeinali, E, and Mokhtarpoor, H	2008	M.Sc.	GUANSR
7	Majid Jafari-moghadam	Modeling the effect of plant density on leaf production and senescence in wheat	Soltani, A, and <b>Kamkar, B</b>	Zeinali, E	2008	M.Sc.	GUANSR
8	Raheleh Arabameri	Predicting kernel number and biomass translocation in wheat ( <i>Triticum aestivum</i> L.).	Soltani, A	<b>Kamkar, B,</b> and Zeinali, E	2008	M.Sc.	GUANSR
9	Noorodin Izadi Jelodar	The in vitro influence of MS and B5 basal media on morphological behavior of Lily ( <i>Lilium longiflorum</i> )	Mashayekhi, K, and Chamani, E	Hematti, Kh, and <b>Kamkar, B</b>	2008	M.Sc.	GUANSR
10	Mina Piri Zirkouhi	Investigating of somatic embryogenesis and organogenesis in two of wild and commercial cultivars of tomato in three media B5, MS, and NL	Mashayekhi, K	<b>K</b> Hematti, Kh, and <b>Kamkar, B</b>	2008	M.Sc.	GUANSR



11	Seyyed Javad Mousavizadeh	The investigation of Strawberry and Carrot petiole explants behavior has been excised in vitro	Mashayekhi, K	<b>K</b> Hematti, Kh, and <b>Kamkar, B</b>	2009	M.Sc.	GUANSR
12	Reyhaneh Shahidi	Determine the most sensitive growth stage and physiological changes of Hull-less barley ( <i>Hordeum vulgare</i> L.) under salinity stress	Latifi, N, and <b>Kamkar, B</b>	-	2009	M.Sc.	GUANSR
13	Mehran Alavi	Mapping of restoration fertility in CMS-WA system in rice	Ahmadikhah, A, and <b>Kamkar, B</b>	Kalateharabi, M	2009	M.Sc.	GUANSR
14	Touba Ahmad Amini	The effect of planting date on partitioning coefficient in some species of wheat	<b>Kamkar, B</b>	Soltani, A	2010	M.Sc.	GUANSR
15	Morteza Eshraghi-Nejad	Predicting of phenological development in millet	<b>Kamkar, B</b>	Soltani, A	2010	M.Sc.	GUANSR
16	Faride Akbari	Investigation of soil microbial biomass C dynamics using different crops residues and its relationship with wheat yield (N8019 variety)	<b>Kamkar, B</b>	Teixera da Silva, Jaime, A., Movahedi Naeini, S.A.,	2010	M.Sc.	GUANSR
17	Kambiz Poori	The effect of crop residues on soil nitrogen and its relationship with yield and yield components in wheat	<b>Kamkar, B</b>	Movahedi Naeini, S.A.	2010	M.Sc.	GUANSR
18	Soheila Hassanabadi	Evaluation of the effective morphophysiological traits on yield in ten wheat cultivars in north of Khorasan	Galeshi, S	Nasiri Mahallati, M, and <b>Kamkar, B.</b>	2010	M.Sc.	GUANSR
19	Mahboubeh Esmacilzadeh-Moridani	Determination of thresholds of three millet species for leaf expansion and transpiration response to soil water deficit	<b>Kamkar, B</b>	Galeshi, S., Ghaderi-Far, F., Teixeira da Silva, J.A.,	2011	M.Sc.	GUANSR
20	Ali Rahemi Karizaki	Investigation of changes of physiological and morphological traits associated with wheat ( <i>Triticum aestivum</i> L.).	Galeshi, S	Soltani, A, and <b>Kamkar, B.</b>	2011	M.Sc.	GUANSR
21	Ghorban-Ali Rassam	Evaluation of spatial biodiversity in agro-habitats of North Khorasan province	Latifi, N.	Soltani, A., and <b>Kamkar, B.</b>	2011	Ph.D.	GUANSR
22	Meysam Ghasemi	Investigating weed biodiversity in wheat fields of Gorgan county	<b>Kamkar, B</b>	Bagherani Tarshiz, N	2011	M.Sc.	GUANSR



23	Marziyeh Yousefi	Study on sulfosulfuron persistence under different cultivation in wheat ( <i>Triticum aestivum</i> L.).	<b>Kamkar, B</b>	Gherekhloo, J, and Faez, R	2011	M.Sc.	GUANSR
24	Sadegh Atashi	Effects of foliar application of Boron and sucrose on some quantitative and qualitative characteristics of apple cv. Redspar	Mashayekhi, K	Alizade, M and <b>Kamkar, B</b>	2011	M.Sc.	GUANSR
25	Ahmad Ajani	The study of Pollination and Pollen Self-incompatibility to determine the best pollinizer for Olive ( <i>Olea europaea</i> L. Cultivars Mission and Zard)	Mashayekhi, K	Seifi, E, <b>Kamkar, B,</b> and Feridoni, H	2011	M.Sc.	GUANSR
26	Malihe Eftekhari	Effect of arbuscular mycorrhizal fungi inoculation and physiology and micropropagation of four commercial Iranian grape cultivars	Alizadeh, M.	Mashayekhi, K, <b>Kamkar, B,</b> and Asghari, HR	2011	M.Sc.	GUANSR
27	Mahboubeh Kiani	The investigation of somatic embryogenesis on a commercial and an Indian cucumber cultivars in different cultural media	Mashayekhi, K	<b>Kamkar, B</b>	2011	M.Sc.	GUANSR
28	Nasrin Mahmoudi Ghadi	Studies on <i>in vitro</i> multiplication of kiwifruit ( <i>Actinidia delisioasa</i> ) on three different <i>in vitro</i> MS, B5, and NL media	Mashayekhi, K	Alizade, M and <b>Kamkar, B</b>	2011	M.Sc.	GUANSR
29	Majid Sardaghi	Study on the agricultural land use change in Golestan province Qaresso basin using Remote Sensing from 1966-2008	<b>Kamkar, B</b>	Abdi, O	2012	M.Sc.	GUANSR
30	Naiemeh heidari	Effects of Boron and sucrose on tomato yield and quality in conditions Golestan province	Mashayekhi, K	Movahedi Naeini, SA and <b>Kamkar, B</b>	2012	M.Sc.	GUANSR
31	Ebrahim Zeinvand Lorestani	Investigate Diversity and Abundance of the Pathogen and Epiphyte Fungal in Wheat Farms in Gorgan Township (Gharehsoo Basin).	<b>Kamkar, B.</b>	Razavi, S.E., Teixeira d a Silva, Jaime, A.,	2012	M.Sc.	GUANSR
32	Issa Keramatlou	Allometric study of traits and modeling of fruit growth in 14 walnut phenotypes ( <i>Juglans regia</i> L.)	Sharifani, H.	Sabouri, M. Alizadeh, B. <b>Kamkar.</b>	2012	M.Sc.	GUANSR
33	Mohammad Javad Bidadi	Land Suitability Analysis on Wheat-Soybean Rotation Using Geospatial Information Systems and Remote Sensing ( A case study: Qaresoo Basin)	<b>Kamkar, B</b>	Abdi, O	2012	M.Sc.	GUANSR



34	Sajedeh Torabi	Investigating the effect of manure and herbicide application rate on persistence of trifluralin and atrazine in the soil	Gherekhloo, J	<b>Kamkar, B</b>	2013	M.Sc.	GUANSR
35	Masoomeh Rahmatzadeh	Effect of winter cover crops cultivation on the qualitative and quantitative yield of flue-cured tobacco (k326).	<b>Kamkar, B</b>	ALinejad, R	2013	M.Sc.	GUANSR
36	Nasim Meghdadi	Simulating effects of climate change on production of chickpea in Zanjan province	Soltani, A	<b>Kamkar, B</b>	2013	M.Sc.	GUANSR
37	Rahim Azhirabi Biglou	Study on the relationship between salinity and wheat yield in Gorgan army fields by Geospatial Information System (GIS) and Remote Sensing (RS)	<b>Kamkar, B</b>	Abdi, O	2013	M.Sc.	GUANSR
38	Iman Emarloo	Effect of Citric Acid, Ethanol, and methanol on characters on tomato ( <i>Lycopersiconesculentum</i> L. var. supra).	Mashayekhi, K	<b>Kamkar, B, and Galeshi, S</b>	2013	M.Sc.	GUANSR
39	Zenab Keykha	The effect of sucrose and boric acid on seedling and fruit quality of tomato ( <i>Lycopersiconesculentum</i> Mill)	Mashayekhi, K	Movahedi Naeini, SA and <b>Kamkar, B</b>	2013	M.Sc.	GUANSR
40	Alireza Rezaei Hossein Abad	An investigation of the relationship between soil nutrients and wheat yield using the Geographical Information System (GIS)	<b>Kamkar, B</b>	Abdi, O	2013	M.Sc.	GUANSR
41	Safoura Batouei	Effect of cover crop on weed control, soil properties, and cotton yield	Gherekhloo, J	<b>Kamkar, B</b>	2013	M.Sc.	GUANSR
42	Esmail Mohammadi Ahmad-Mahmoudi	Monitoring biomass production in wheat fields in army field of Golestan province using Geographical Information System and Remote Sensing	<b>Kamkar, B</b>	Abdi, O	2013	M.Sc.	GUANSR
43	Nikta Najjari Kalantari	Identification of resistant weeds to ACCase and ALS inhibitors in wheat fields of Aq Qala and preparing their distribution map	Gherekhloo, J	<b>Kamkar, B</b>	2013	M.Sc.	GUANSR
44	Razieh Kiani Dehkordi	Effect of abscisic acid, ethephon, 1-methyl propane cyclotron, Theo silver sulfate, and potassium permanganate on the vegetative and reproductive growth of lettuce	Mashayekhi, K	<b>Kamkar, B</b>	2013	M.Sc.	GUANSR
45	Mahin Nozarinezhad	Predicting wheat emergence as affected by temperature, moisture, and sowing depth	Zeinali, E, and Soltani, A	<b>Kamkar, B, and Soltani, E</b>	2013	M.Sc.	GUANSR



46	Seyed Esmacil Razavi	Investigating the decomposition of crop residues from rice, wheat, cotton, canola, and soybean using four fungal decomposers under laboratory conditions	<b>Kamkar, B</b>	Sadeghipour, H.R	2014	Ph.D.	GUANSR
47	Salim Farzaneh	Study of the relationships among phonological, morphological, and physiological characters of sugar beet parents on seed quality and quantity	<b>Kamkar, B</b>	Ghaderi-FAR, F, Chegini, M.	2014	Ph.D.	GUANSR
48	Mesam Badsar	Yield gap estimation in wheat fields using GIS, RS, and SSM model (A case study: Qaresso basin, Gorgan distinct).	<b>Kamkar, B</b>	Soltani, A, and Abdi, O	2014	M.Sc.	GUANSR
49	Ayoub Ghorbani Dehkordi	Effect of boron, KNO <sub>3</sub> , and salicylic acid by several concentrations of sucrose on the qualitative and quantitative parameters of tomato plant in great Daland farm	Mashayekhi, K	<b>Kamkar, B</b>	2014	M.Sc.	GUANSR
50	Said Mahmoudan	Comparison of wheat yield between common and modern wheat cropping systems using Geospatial Information System approach	<b>Kamkar, B</b>	Abdi, O	2014	M.Sc.	GUANSR
51	Niloufar Nasroollahi	Feasibility of ley-farming performance in Aq-Qala by the geographical information system (GIS)	Gherekhloo, J	<b>Kamkar, B</b>	2014	M.Sc.	GUANSR
52	Behzad Zafari Ghalehrodkhani	Effect of plant density on the allometric relationship in wheat	Soltani, A	Zeinali, E, and <b>Kamkar, B</b>	2014	M.Sc.	GUANSR
53	Roya Kalami	Identification of resistant weeds to ACCase and ALS inhibitor herbicides in wheat fields of Kordkoy	Gherekhloo, J	<b>Kamkar, B</b> , and Esfandiarpour, E	2014	M.Sc.	GUANSR
54	Mohammad Ali Dorri	Determination of milk thistle responses to environmental factors in different sowing dates and its cultivation suitability assessment in four basins of Golestan province	<b>Kamkar, B</b>	Aghdasi, M	2015	Ph.D.	GUANSR
55	Mohammad Taghi Feyzbakhsh	Evaluation of DSSAT model in different soil water coefficients and different sowing dates on corn	<b>Kamkar, B</b>	Mokhtarpour, H., and Asadi ME	2015	Ph.D.	GUANSR
56	Mahmoud Mamashli	Zoning and feasibility of tulip cultivation in Golestan province using GIS	Zarei, H	Faramarzi, H, and Soltani, A	2015	M.Sc.	GUANSR
57	Robabeh Ghaffari Darbandi	Land Suitability Analysis for Fennel Production ( <i>Foeniculum vulgare</i> Mill) in the	<b>Kamkar, B</b>	Abdi, O, and Khormali, F	2015	M.Sc.	GUANSR





		North, Razavi, and South Khorasan provinces ( Iran) Using Geographical Information System					
58	Hoda Zolfagharnejad	Estimation of wheat water requirement using GIS and RS (A case study in four basins of Golestan province: Qaresoo, Mohammad Abad, Zarin Gol and Gharn Abad)	<b>Kamkar, B</b>	Abdi, O	2015	M.Sc.	GUANSR
59	Elahe Komshikamar	Assessment of land suitability of canola ( <i>Brassica napus</i> L.)- maize ( <i>Zea mays</i> L. ) rotation in four basins of Golestan province, Iran	<b>Kamkar, B</b>	Kazemi, H, and Dorri, MA	2016	M.Sc.	GUANSR
60	Rehaneh Yusefzadeh Moghani	The effects of water type and nitrogen levels interaction on the yield and early maturity of cotton (Khordad variety)	<b>Kamkar, B</b>	Kazemi, H, and Ahmadian, A	2016	M.Sc.	GUANSR
61	Raziyeh Shahimoridi	Evaluation of agricultural sustainable development in Golestan province by Geographical Information System (GIS)	Kazemi, H	<b>Kamkar, B</b>	2016	M.Sc.	GUANSR
62	Alireza Razghandi	Identification of resistant biotypes to aryloxy phenoxy propionate and acetolactate synthase inhibitors in wheat fields inhibitors in wheat fields of Ali Abad-e Katool and preparing their distribution map	Gherekhloo, J	<b>Kamkar, B</b>	2016	M.Sc.	GUANSR
63	Fahimeh Maleki	Agro-ecological zoning of Azad Shahr township for saffron ( <i>Crocus sativus</i> L.) cultivation using Geographical Information System (GIS)	Kazemi, H	Siahmargoei, A, and <b>Kamkar, B</b>	2016	M.Sc.	GUANSR

And more than 20 other dissertations



### Scientific Projects

Row	Title	Level	ID	Authors	Year
1	A study on the effect of soybean and cotton residues on nitrogen mineralization and some microbial communities' dynamism	University	87-3-175	Behnam <b>Kamkar</b> , Reaza Ghorbani Nasrabadi, Seyed Majid Alimagham, Tayebbeh Ebrahimi	2008
2	The effect of different litters on the dynamism of soil nitrate and ammonia and wheat yield	University	89-3-231	Behnam <b>Kamkar</b> , Seyed Alireza Movahedi Naeini, Alireza Safahani Langroudi	2010
3	Simulating wheat growth and development using DSSAT, APSIM, and CropSyst models under Gorgan and Gonbad conditions	University	89-3-227	Afshin Soltani, Amir Hossein Mahroo-Kashani, Ali Dastmalchi, Vahid Maddah, Ebrahim Zeinali, Behnam <b>Kamkar</b>	2010
4	Biopriming effect on safflower seeds germination, seedling establishment, and damping-off diseases ( <i>Pythium ultimum</i> TROE) control	University		Behnam <b>Kamkar</b> , Mohammad Entesari	2015
5	Wheat growth fields health assessment in the Gorgan basin	University		Behnam <b>Kamkar</b> , Naser Baghernai, Seyed Esmaeil Razavi	2012
6	Using GIS and CUMMOD model to evaluate the potential yield of cumin in suitable areas of Northern, Razavi, and Southern Khorasan providences	University		Behnam <b>Kamkar</b> , Nasim Meghdadi	2013
7	Comparison of the yield estimation methods and yield map provided in wheat fields of four basins (Qaresoo, Mohammadabad, Zaringol, and Gharnabad) using GIS	University		Behnam <b>Kamkar</b> , Omid Abdi, Esmaeil Mohammadi Ahmad-Mahmoudi	2015
8	The investigating the status of the databases used in Gorgan University of Agricultural Sciences and Natural Resources, and compare the cost-effectiveness of online and offline databases	University		Behnam <b>Kamkar</b> , Mina Farajzadeh, Ali Akbar Poorahmad	2015
9	Using GIS and variable rate technique (VRT) to determine fertilizer requirement for field Gorgan	University		Behnam <b>Kamkar</b> , Nasim Meghdadi, Esmaeil Mohammadi Ahmad-Mahmoudi	2015
10	Zoning of susceptible areas for corn cultivation and mapping of maize seed a... under effect of inappropriate temperatures around at thesis stage using GIS, RS and DSSAT model (A Case study: the Golestan province)	University		Behnam <b>Kamkar</b> , Mohammad Taghi Feyzbakhsh, Hassan Mokhtarpur	2016
11	Investigate the effects of environmental factors on the weeds diversity of wheat-grown fields using geographic information systems (GIS) and remote sensing (RS)	University		Behnam <b>Kamkar</b> , Ebrahim. Zeinvand Lorestani, Meisam Ghasemi, Naser	2017



				Bagherani Torshiz and Sajjad Sadeghi Lotfabadi	
12	Evaluation of vegetative indices changes using Landsat 5 and Landsat 7 satellite images in four basins in Golestan province	University		Behnam <b>Kamkar</b> , Parisa Alizadeh	2019
13	Assessment of land suitability and the possibility of a potato– soybean rotation and investigation of the adaptation of the layers to the actual yield of the crops (Case study: four watershed basins, Golestan Province)	University		Behnam <b>Kamkar</b> , Nasibe Rezvantaleb Parisa Alizadeh Dehkordi	2019
14	Determination of rice, cotton, and soybean-grown fields area in Golestan province	Out-of-university project		Behnam <b>Kamkar</b> , Omid Abdi, Parisa Alizadeh	2019
15	Determination of compliance of soybean-grown fields with land suitability maps using GIS and Remote Sensing	University		Behnam <b>Kamkar</b> , Parisa Alizadeh, Omid Abdi, Pooya Aalae Bazkiaee	2021
16	Determination of compliance of cotton-grown fields with land suitability maps using GIS and Remote Sensing	University		Behnam <b>Kamkar</b> , Parisa Alizadeh, Omid Abdi, Pooya Aalae Bazkiaee	2021
17	Studying the changes in rice yield and water balance in Guilan Province affected by Climate Change (Case study: Rasht City)	University		Behnam <b>Kamkar</b> , Pooya Aalae Bazkiaee Ebrahim Amiri, Parisa Alizadeh Dehkordi	2021
18	Determination of rice, cotton, and soybean-grown fields area in Golestan province	Out-of-university project		Behnam <b>Kamkar</b> , Omid Abdi, Parisa Alizadeh	2019
19	Agro-ecological zoning for rainfed wheat cultivation in current and future conditions using geographical information system in Iran	FUM University	57437	Behnam <b>Kamkar</b> , Parisa Alizadeh Dehkordi, Alireza Nehbandani	
20	Determination of the optimal level of herbicides application according to the chemical properties of water (acidity, salinity, and pH) to reduce the	FUM University	54926	Behnam <b>Kamkar</b> , Sajjad Mijani	



consumption and maximize their efficiency (A case study: Mashhad plain)				
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### **The key speaker in National Congresses:**

- 1-New design of planting patterns with a look at land management . 2018.Third International Congress and 15th National Congress of Agronomy and Plant Breeding, Research Institute of Seedlings and Seed Breeding. Karaj, Iran.04 Sep. 2018.
- 2- Passive defense in the field of agriculture. 2019. Passive Defense Conference. Kermanshah Azad University. 03 November 2019.
- 3- An analysis of the 12 principles of sustainability in Iranian agricultural systems (keynote speech). 2020. 16th National Congress of Agricultural Sciences and Plant Breeding of Iran. Khuzestan University of Agricultural Sciences and Natural Resources. 25 January 2020.
- 4-Compatible food ecosystem systems for arid and semi-arid regions with the focus on increasing resource productivity (especially water) and improving livelihoods. 2021. The first national conference on irrigation deficiency and the use of unconventional water in agriculture in arid regions. The Ferdowsi University of Mashhad, 18 Feb 2021.

### **National workshops as a lecturer:**

- 1-General concepts of GIS for agricultural and natural sciences (In collaboration with Gorgan University of Agricultural Sciences and Natural Resources). 1993.
- 2- Cropping pattern design and planning workshop. 2020. 16th Iranian Congress of Agriculture and Plant Breeding. 25-27 Jan 2020.
- 3- Applied elementary workshop on the use of geographic information systems in Agriculture. In collaboration with the Crop Science Society of Iran (CSSI). Oct. 2020- Jan 2021.
- 4- Applied workshop on using geographic information systems in agriculture (introductory). In collaboration with the Crop Science Society of Iran (CSSI). Jan 2022-May 2022.
- 5- The basics of crop simulation models (development, growth, and yield)(a theoretical and practical workshop). In collaboration with the Crop Science Society of Iran (CSSI). Sept 2021-Jan 2022.
- 6- Classic and geostatistical-based interpolation methods in GIS environment for agriculture use. August 2022. In collaboration with the Crop Science Society of Iran (CSSI).
- 7- The methods of detecting agricultural lands using satellite images. 2022. In collaboration with the Crop Science Society of Iran (CSSI). 21 Jan 2022.

### **International Workshops and lectures**

- Applied elementary workshop on the use of geographic information systems in agriculture  
24 – 27 July & 02 – 04 August 2023. Kassel University, Germany.
- Detecting agricultural lands by satellite-imagery (concepts and methods). 07 – 11 August 2023. Kassel University, Germany.
- **“Spatial-temporal data usage in sustainable agriculture”**. A public lecture o the first week of July 2023. Kassel University, Germany.