

Curriculum vitae (CV)



Personal Information:

Dr. Hossein Kazemi

- **Date of birth:** 11.03.1982
- **Nationality:** Iranian
- **Marital status:** Married, two children
- **E-mail:** hossein_k_p@yahoo.com
hkazemi@gau.ac.ir
- **Phone:** +98 017- 32426082
- **Postal Address:**
Department of Agronomy, Faculty of Plant Production,
Gorgan University of Agricultural Sciences and Natural Resources (GUASNR),
PO Box 49189-43464, Gorgan, Iran.

Current position:

Scientific staff member (Associate Prof.) of Agronomy Department, Agroecology Division, Gorgan University of Agricultural Sciences and Natural Resources (GUASNR), Gorgan, Iran.

Research interests:

- GIS and RS applications in Agroecology
- Agroecosystems Assessment
- Ecosystem Services Assessment
- Landscape Ecology
- Sustainable Agriculture

Academic record:

- **Participation in the 3rd International Week of Uşak University "Re-connection in New Era"**; Funded by **Erasmus Mobility Program**, 6-10 June, 2022, Uşak, Turkey.
- **Participation in International Summer School" Sustainable Agriculture"**, Online course: Ecological Aspects of Agro-Machinery; Funded by **Erasmus Program + FARmER Project**, 1-14 July, 2019. (Grade: Excellent; 100 from100).
- **Research stay in Austria**, Paris-Lodron University of Salzburg, Interfaculty Department of Geoinformatics -Z_GIS, Salzburg, Austria, summer 2018.
- **Associate Professor**, Gorgan University of Agricultural Sciences and Natural Resources (GUASNR) Iran, since 01/2018 -continue
- **Assistant Professor**, Gorgan University of Agricultural Sciences and Natural Resources (GUASNR), Iran, 06/2012-12/2017.
- **Instructor** (Scientific staff Member), Payame Noor University, Savadkooh, Mazandaran Province, Iran; 09/2007-09/2008.

Education background:

- PhD in Agronomy(Agroecology), Tarbiat Modares University (TMU), Tehran, Iran; 2008-2012
- M.Sc. in Agronomy, Mazandaran University, Sari, Mazandaran Province, Iran; 2004-2006
- B.Sc. in Agronomy and Plant Breeding, Islamic Azad University of Rasht Branch, Guilan Province, Iran; 2000-2004

Scholarship/Awards/Honors

- **Best researcher** of Gorgan University of Agricultural Sciences and Natural Resources in year **2021**.
- **Best reviewer** of Journal of Research in Ecology , **2020**.
- **Best researcher** of Gorgan University of Agricultural Sciences and Natural Resources in year **2019**.

- **Best scientific staff member** in agricultural entrepreneurship theme, Gorgan University of Agricultural Sciences and Natural Resources, **2017**.
- **Best researcher** in translation of scientific books to Persian theme, Gorgan University of Agricultural Sciences and Natural Resources, **2016**.
- **Ranked first** of the top ideas festival of Golestan province, **2015**.
- **Winner of the best young researcher prize** of Guilan province, **2010**.
- **Recipient of Scholarship** from Gorgan University of Agricultural Sciences and Natural Resources (GUASNR), **2008-2012**.
- **Best Iranian M.Sc. student** in year **2006**.
- **Ranked first** among all M.Sc. student of agronomy (Classmates), Mazandaran University, **2006**

Research projects:

11. Title: Evaluation of carbon sequestration as a regulating service in a faba bean agroecosystem

ID: 99-432-7

Duration: 01/11/2021 – 01/11/2022 (ongoing)

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

10. Title: Quantification and valuation of pollination regulating service in a faba bean agroecosystem

ID: 99-432-7

Duration: 01/11/2020 – 01/11/2021

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

9. Title: Meta-analysis of ecosystem services assessment in Iran

ID: 98-412-36

Duration: 08/02/2020 - 01/06/2020

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

8. Title: Feasibility of aerobic rice cropping development in Golestan province.

ID: 97-393-55

Duration: 01/03/2019 - 01/03/2020

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

7. Title: Assessment and mapping of ecosystems services in agroecosystems of Gorgan township

ID:95-354-78

Duration: 02/01/2016 - 02/19/2019

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

6. Title: Land use suitability of Golestan province for rainfed farming performance

ID: 94-337-15

Duration: 02/02/2015 - 02/15/2016

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

5. Title: Investigation of weeds seed bank diversity and density in the citrus orchards of Bandar-e- Gaz and preparing the distribution maps of them by GIS

ID: 92-314-33

Duration: 12/20/2014-01/18/2016

Personal role: Co-worker

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

4.Title: The feasibility of some invasive weeds presence in Golestan province

ID:94-337-19

Duration: 02/02/2015 - 2/29/2016

Personal role: Co-worker

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

3.Title: Land suitability assessment for wheat-canola rotation performance in agricultural lands of Bandar-e-Torkaman and Gomishan,

ID: 93-323-12

Duration:12/28/2014 - 07/11/2015

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

2. Title: Investigation of different interpolation methods for estimation and zoning of effective precipitation in agricultural lands of Ag-Qala township

ID: 92-314-37

Duration: 12/20/2013-02/03/2015

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

1. Title: Ecological zoning of agricultural lands in Gorgan township for sunflower cultivation,

ID:91-306-90

Duration: 01/01/2013 - 11/03/2013

Personal role: Project manager

Budget source: Gorgan University of Agricultural Sciences and Natural Resources (GUASNR)

Publications:

International Journals

26- Shahhoseini, H., **Kazemi, H.** 2022. Evaluation of sustainability of rainfed rapeseed production in Gorgan county using Emergy analysis. **Agriculture, Environment & Society.** 2(1): 61-70.

25- Bazkiaee, P.A., Kamkar, B., Amiri, E., **H. Kazemi,** M. Rezaei & A. López-Bernal. 2022. The rice yield gap estimation using integrated system approaches: a case study—Guilan province, Iran. **International Journal of Environmental Science and Technology.** 1-14. <https://doi.org/10.1007/s13762-022-04093-z>.

24- Shahhoseini, H., Ramroudi, M., **Kazemi, H.** 2022. Emergy analysis for sustainability assessment of potato agroecosystems (case study: Golestan province, Iran). **Environment, Development and Sustainability.** 1-26. <https://doi.org/10.1007/s10668-022-02309-3>

23- Delavaran, H., **Kazemi, H.,** Kamkar, B., Gherekhloo, J. 2022. Development of a new model for health assessment in agroecosystems. **Environmental Monitoring and Assessment.** 194:1-19.

22- Shahhoseini, H. R., Ramroudi, M., **Kazemi, H.,** Amiri, Z. 2022. Sustainability assessment of autumn and spring potato production systems using extended exergy analysis (EEA). **Energy, Ecology and Environment.** 5(6):1-12.

21- Moushania S., **Kazemi, H.,** Klug, H., Asadi, M.E., and Soltani, A. 2021. Ecosystem service mapping in soybean agroecosystems. **Ecological Indicators.** 121:1-12.

20- Zolfaghary, P., Zakerinia, M. and **Kazemi, H.** 2021. A model for the use of urban treated wastewater in agriculture using multiple criteria decision making (MCDM) and geographic information system (GIS). **Agricultural Water Management.** 243:1-11.

19-**Kazemi, H,** Zardari S. 2020. Energy analysis and greenhouse gas (GHG) emission from strawberry production under two irrigation systems. **Walailak Journal of Science and Technology.**17(1):1-10.

18- **Kazemi, H.** and Akinci, H. 2018. A land use suitability model for rainfed farming by Multi-criteria Decision making Analysis (MCDA) and Geographic Information System (GIS). **Ecological Engineering,** 116:1-6.

- 17 - **Kazemi, H.**, Klug, H. and Kamkar, B. 2018. New services and roles of biodiversity in modern agroecosystems: A review. **Ecological Indicators**. 93:1126-1135.
- 16- **Kazemi, H.** Shorkgozar, M., Kamkar, B., and Soltani, A. 2018. Analysis of cotton production by energy indicators in two different climatic regions. **Journal of Cleaner Production**. 190:729-736.
- 15- 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**, 106:140-153.
- 14-Nasrollahi, N., **Kazemi, H.**, Kamkar, B. 2017. Feasibility of ley-farming system performance in a semi-arid region using spatial analysis. **Ecological Indicators**.72:239-248
- 13-Alimagham, S.M., Soltani, A., Zeinali, E. and **Kazemi, H.** 2017. Energy flow analysis and estimation of greenhouse gases (GHG) emissions in different scenarios of soybean production (Case study: Gorgan region, Iran). **Journal of Cleaner Production**.149:628-621.
- 12-**Kazemi H.**, Sadeghi, S. and Akinci, H. 2016. GIS-based land suitability assessment for faba bean cultivation in Gonbad-Kavoostownship, Iran. **Ecological Indicators**.63,37-47.
- 11- **Kazemi, H.** 2016. Energy balance in modern agroecosystems; why and how?. **Agricultural Research & Technology: Open Access Journal**. 1(5):1-4.
- 10- **Kazemi H.**, Hassanpour Bourkheili S., Kamkar, B. Soltani, A., Gharanjic K., Nazari, N. M., 2016. Estimation of greenhouse gas (GHG) emission and energy use efficiency (EUE) analysis in rainfed canola production (Case study: Golestan province, Iran). **Energy**, 116:964-970.
- 9- **Kazemi H.**, Shahbyki, M. and Baghbani, S. 2015. Energy analysis for faba bean production: A case study in Golestan province, Iran. **Journal of Sustainable Production and Consumption**. 3:15-20.
- 8-**Kazemi, H.**, Tahmasebi Sarvestani, Z., Kamkar, B., Shataei, S. and Sadegh, S. 2015. Ecological zoning for wheat production in Golestan province (north of Iran) using Geographical Information System. **Advanced Journal of Agriculture and Plant Science**. 2(1):1-7.
- 7-**Kazemi, H.**, Kamkar, B., Lakzaei, Badsar, M. and Shahbeygi, M. 2015. Energy flow analysis for rice production in different geographical regions of Iran. **Energy**. 48: 390-396.

6-Aghaalikhani, M., **Kazemi, H.** and Habibzadeh, F. 2013. Energy use of rice production in Iran: A case study Mazandaran province. **Energy Management and Conservation**. 69:156-162.

5-**Kazemi, H.** Tahmasebi Sarvestani, Z., Kamkar, B., Shataei, S. and Sadegh, S. 2012. Comparison of interpolation methods for estimating pH and EC in agricultural fields of Golestan province (north of Iran). **International Journal of Agriculture and Crop Sciences**. 4(4): 157-167.

4-Bahmanyar, M. A., and **Kazemi, H.** 2010. Influence of nitrogen and Sulphur on yield and seed quality of three canola (*Brassica napus* L.) cultivars. **Journal of Plant Nutrition**. 33:953-965.

3-**Kazemi, H.**, Pirdashti H., Nasiri, M. and Bahmanyar, M. A. 2007. Chlorophyll content and biological yield in response to different urea fertilizer applications and top dressing in modern and old rice cultivars. **Asian Journal Plant Science**. 6 (1):177-180.

2-**Kazemi, H.**, Pirdashti, H. Bahmanyar, M. A. and Akhgari, H. 2007. Effect of rate and application forms of zinc on some agronomy traits of bean (*Phaseolus vulgaris* L.). **The India Journal of Crop Science**. 2(1):149-151.

1-**Kazemi, H.**, Pirdashti H., Bahmanyar M. A. and Nasiri M. 2006. Investigation the Sink characteristics of contrast rice (*Oryza sativa* L.) cultivars under different nitrogen applications. **The India Journal of Crop Science**. 1(1-2) 88-92.

International Congress

8- **Kazemi, H.**, Fürst C. 2022. Ecosystem Services Assessment in Iran; Current Status, Gaps and Future Vision. The 1st International Electronic Conference on Land, 17-19 May.

7- Abshenas, M., Kamkar, B., Soltani A., **Kazemi, H.** 2022. Ability of Lars-wg and SDSM microscale models in simulation of main temperatures and precipitation in Golestan province for 2050. 17th National and 3rd International Congress on Agronomy and Plant Breeding Sciences of Iran, January 25 - 27, Shahid Bahonar University of Kerman, Iran.

6- **Kazemi, H.** 2017. Identify and recommendation of the agronomical sector potential in Golestan province for the agrotourism development. International Conference on Sustainable Tourism Development: An Ethno Cultural Approach, 15 February 2017, Gorgan, Iran.

5- Nasrollahi, N., **Kazemi, H.**, Kamkar, B. and Honardoost, F. 2014. Feasibility of ley-farming in the Aq-Qala township by Geographical Information System(GIS). 1stInternational and 13th Iranian Crop Science Congress. Seed and Plant Improvement Institute Karaj, August 24-26, Karaj, Iran.

4-**Kazemi, H.**, Tahmasebi Sarvestani, Z., Kamkar, B., Shataei, S. and Sadegh, S. 2012. Comparison of interpolation methods for estimation N, P and K in agricultural lands of Golestan province, north of Iran. 8th International Soil Science Congress on land Degradation and Challenges in Sustainable Soil Management. May 15-17. Cesme-Izmir, Turkey. 310-314.

3-**Kazemi, H.**, Afshari, E. and Bahmanyar M.A. 2012. Effect of zinc rates and application forms on protein and micronutrients accumulation in common bean. The 8th International Soil Science Congress on land Degradation and Challenges in Sustainable Soil Management. May 15-17. Cesme-Izmir, Turkey.315-319.

2-**Kazemi, H.**, Kakoo Larimi, and Afshari, E. 2010. Identification and introduce of Laminaceae family plants in Javarom forest park in Savadkooh city. The 2nd International Conference of Climate Change & Denderochonology in Caspian Ecosystem. May 12-14. Sari, Iran.

1-Ahmadi Shad, M. A., Kazemitabar, S. K., and **Kazemi, H.** 2008. An assessment of genetic diversity in cultivated tea (*Camellia sinensis* L. O. Kuntze) clones in Caspian ecosystem using RAPD markers. The 1th International Conference of Climate Change & Denderochonology in Caspian Ecosystem. May 4-5. Sari, Iran.

Books

2.**Kazemi, H.** 2016. Application of Geographic Information System (GIS) in Crop Sciences. Gorgan University of Agricultural Sciences and Natural Resources (GUASNR) Press.

1. **Kazemi, H.**, and Kamkar, B. 2015. Science and technology of organic farming. JDM Press. (Translated to Persian).

Service to Journals

10. **Editorial board member** of "**Journal of Ecosystem Health and Sustainability**", the scientific international journal of Taylor and Francis Publishing Co. (**IF: 3.116**), Nov. 2021 –Continue

9. **Associate editor** of "**International Journal of Plant Production** ", the scientific journal of Springer Publishers Co. (**IF: 2.017**), 10 Nov. 2020 –Continue

8. **Editorial board member** of "**Journal of Plant Research**", the scientific international journal of Springer Publishing Co. (**IF: 2.629**), 2020 –Continue

7. **Editorial board member** of “**Landscape and Ecological Engineering**”, the scientific international journal of Springer Publishing Co. (**IF: 1.813**), 2019 –Continue
6. **Editorial board member** and **associate editor** of “**Biodiversity and Conservation**”, the scientific international journal of Springer Publishing Co. (**IF: 3.549**), 2019 –Continue
5. **Editorial board member** of “**Land Reclamation, Earth Observation & Surveying, Environmental Engineering**”, the scientific international journal of University of Agronomic Sciences and Veterinary Medicine of Bucharest, 2020 –Continue
4. **Editorial board member** of “**Research in Ecology**”, the scientific journal of Bilingual Publishing Co, Singapore. 2019 –Continue
3. **Associate editor** of " **Agricultural Research & Technology: Open Access Journal** ", the scientific journal of Juniper Publishers, UAS. 1 May 2016 –Continue
2. **Associate editor** of "**Journal of Plant Production Researches**", the scientific journal of Gorgan University of Agricultural Sciences and Natural Resources (GUASNR), Iran. March 2014 –March 2018. (Persian journal with English abstract).
1. **Associate editor** of "**Electronic Journal of Crop Production**", the scientific journal of Gorgan University of Agricultural Sciences and Natural Resources (GUASNR), Iran. January 2010 – January 2013. (Persian journal with English abstract).

Service to Conferences

9. **Member of International Scientific Committee** "International Conference on Agritourism and Sustainable Development", 15-16 April 2021, Tokyo, Japan.
8. **Member of International Scientific Committee** "3rd International Symposium on Biodiversity Research", 20-22 October 2021, Ekim, Turkey.
7. **Member of International Scientific Committee** “International Conference on Ecosystem Ecology and Research” 19-20 July, 2021, Copenhagen, Denmark.
6. **Member of International Scientific Committee**” International Conference on Agricultural Ecosystem Services and Natural Resource-Management”, 27-28 December, 2021, Vienna, Austria.
5. **Member of International Scientific Committee** “2nd International Symposium on Biodiversity Research”, 25-27 June 2020, Rize, Turkey.
4. **Member of International Scientific Committee:** “4th International Conference and Expo on Agricultural and Horticulture”, August 1-10, 2020, Atlanta, USA.

3. **Leader and Member of International Scientific Committee:** International Conference on Agroecosystems Assessment Using Spatial Analysis Techniques, as a part of the 6th Annual International Conference on Geography, June 1-4, 2020, Athens, Greece.

2. **Member of International Scientific Committee:** “International Conference and Agricultural and Horticulture”, November 18-20, 2019, Rome, Italy.

1. **Member of International Scientific Committee:** 2015 International Conference on Energy and Environmental Systems Engineering, May 17-18, 2015, Beijing, China.

Reviewer of Journals

- **International Journal**

International Journal of Plant Production, Crop Protection, Plose One Journal, Ecological indicators, Crop and Pasture, Landscape and Ecological Engineering, Journal of Plant Research, Ecology Research, ...

- **Internal Journal (Persian journals with English abstract)**

Journal of Soil & Water, Agricultural Science and Sustainable Production, Electronic Journal of Crop Production, Plant Research, Soil and Sustainable Production,...

Membership in scientific association

1. International Association for Agricultural Sustainability
2. Iranian Crop Science Society
3. Young Ecosystem Services Specialists network (YESS)

Gorgan, June 2022