



## PERSONAL INFORMATION:

**Full Name:** HAMID NIKNAHAD GHARMAKHER

**Nationality:** Iranian

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## EDUCATION:

**PhD., Agronomy and Environment, University of Agroparis Tech, Paris, France. 2008**  
Dissertation: Sulphur Mineralization During Decomposition of Organic matters in Soil and its Relationships with C and N Dynamics.

**M.Sc., Rangeland Management, Tarbiat Modares University, Tehran, Iran, 2002**  
Thesis: Effects of Haloxylon plantation on some soil properties and vegetation cover in Hossainabad-Qom.

**B.Sc., Rangeland and Watershed Management, Tehran University, Tehran, Iran, 2000**

## RESEARCH INTEREST:

Restoration Ecology

## PUBLICATION:

### ENGLISH PUBLICATIONS

1. Kiyasi,Y., Forouzeh, M.R., Mirdeilami, S. Z. and **Nikhahad-Gharmakher, H.** 2023. Ethnobotanical study of medicinal plants used by Qizilbash Tribe in North of Iran. Environmental Resources Research, 11(2): 243-260.
2. Ashrafzadeh, M., **Nikhahad - Gharmakher, H.**, Saharkhiz., M.J.and Ghorbani Nohoji,M. 2023. Effects of Phenological Stages and Ecological Factors on Secondary Metabolites of *Clematis ispanhanica* Boiss. ECOPERSIA, 11(2):93-104.
3. Arrekhi, A, **Nikhahad-Gharmakher, H.**, Bellingrath-Kimura, S.D., Bachinger, J. and Bloch. R. 2023. Investigation of the feasibility and effect of alternative farming system on the grain yield of barley and forage production in western semi-arid region of Golestan province, Iran. Journal of Rangeland Science, 13 (2), 155-167.
4. Sharifian, A., **Nikhahad-Gharmakher, H.**, Foadizada, M., Tabe, A. and Shackleton, R. T. 2023. Socio-ecological evidence highlights that native *Prosopis* species are better for arid land restoration than non-native ones. Restoration Ecology, 31 (2): e13756.
5. Aranian, V., **Nikhahad-Gharmakher, H.**, Bairam Komaki, Ch. and Kazemi, H. 2022.

- Delineating suitable sites for plantation of *Nitraria schoberi* in winter rangelands of Golestan Province, Iran. *Environmental Resources Research*, 10(2): 183-194.
6. Arrekhi, A, **Niknahad-Gharmakher, H.**, Bellingrath-Kimura, S.D., Bloch, R., Bachinger, J. and Hufnagel, J. 2022. Relationship among Plant Measurements of *Salsola turcomanica* (Litv) and Soil Properties in Semi-arid Region of Golestan Province, Iran. *Journal of Rangeland Science*, 12(2): 168-178.
  7. Ehsani, S.M., **Niknahad-Gharmakher, H.**, Motamedi, J., Akbarlou, M. and Shaydai Karkaj, E. 2022. Consequence of lignite and wheat straw biochar amendments on soil biological and chemical properties and plant traits of pot grown *Astragalus podolobus*. *Arabian Journal of Geosciences*, 15:291.
  8. Ehsani, S.M., **Niknahad-Gharmakher, H.**, Motamedi, J., Akbarlou, M. and Shaydai Karkaj, E. 2021. The Impact of Lignite and Wheat Straw Biochar Application on Structural Traits of Pot-Grown *Nitraria Schoberi* L. and Soil Properties. *Journal of Soil Science and Plant Nutrition*, 21:1191-1200.
  9. Ehsani, S.M., **Niknahad-Gharmakher, H.**, Motamedi, J., Akbarlou, M. and Shaydai Karkaj, E. 2021. Effect of Wheat Straw Biochar and Lignite on Nutritional Value of *Nitraria schoberi* and *Astragalus podolobus* in Greenhouse Condition, *Journal of Rangeland Science*, 11(1): 44-53.
  10. Arrekhi, A, **Niknahad-Gharmakher, H.**, Bachinger, J., Bloch, R. and Hufnagel, J. 2021. Forage Quality of *Salsola turcomanica* (Litv) in Semi-arid Region of Gomishan, Golestan Province, Iran. *Journal of Rangeland Science*, 11(1): 74-86.
  11. Ehsani, S.M., **Niknahad-Gharmakher, H.**, Motamedi, J., Akbarlou, M. and Shaydai Karkaj, E. 2021. Impact of wheat straw Biochar and Lignite on Plant Growth of *Astragalus podolobus* Boiss. & Hohen. *Ecopersia*, 9(1):61-67.
  12. Arrekhi, A, **Niknahad-Gharmakher, H.**, Bachinger, J. and Bloch, R. 2020. Treatments for the Optimization of *Salsola turcomanica* (Litv) Seed Germination and the Effects of Different Drought and Salinity Levels. *Journal of Rangeland Science*, 10 (3): 302-3015.
  13. **Niknahad-Gharmakher, H.**, Esfandyari, A. and Rezaei, H. 2018. Phytoremediation of cadmium and nickel using *Vetiveria zizanioides*. *Environmental Resources Research*, 6(1): 41-49.
  14. Saberi, M., **Niknahad-Gharmakher, H.**, Heshmati, Gh, Barani, H. and Shahriari, A. 2017. Effects of Different Drought and Salinity Levels on Seed Germination of *Citrullus colocynthis*. *Ecopersia*, 5(3): 1903-1917.
  15. **Niknahad-Gharmakher, H.**, Sheidai-Karkaj, E., Jafari, I. 2017. Effects of Exclosure on Soil Properties in Winter Rangelands in Golestan Province, Iran. *Journal of Rangeland Science*, 7(1): 55-66.
  16. **Niknahad-Gharmakher, H.**, Sharifiyan-Bahraman, A. 2017. The Impacts of Atriplex Plantation from the Viewpoint of stockholders. *Environmental Resources Research*, 5(1) 89-99.
  17. Piutti, S., Slezack-Deschaumes, S., **Niknahad-Gharmakher, H.**, Recous, S. and Benizri, E. Vong, P.C. 2015. Relationships between the density and activity of microbial communities possessing arylsulfatase activity and soil sulfate dynamics during the decomposition of plant residues in soil. *European Journal of Soil Biology*, 70: 88-96.
  18. **Niknahad-Gharmakher, H.**, Jafari-footami, I. and Sharifi, A. 2015. Effects of grazing exclusion on plant productivity and carbon sequestration (Case study: Gomishan rangelands, Golestan province, Iran). *Journal of Rangeland Science*, 5(2): 123-134.

19. **Niknahad-Gharmakher, H.**, Mohamadi-Gonbadi,A.,Bairam Komaki,Ch. and Honardoost, F. 2015. Determination of Suitable Lands for Sowing of Alkaligrass *Puccinellia distans* (Case Study: Agh-Ghala Rangelands, Golestan Province, Iran). *Journal of Rangeland Science*, 5(1): 341-349.
20. Ahmadi-Beni, M., **Niknahad-Gharmakher,H.**, Azimi, M. and Maramaei, M. 2014. Investigation of forage quality of *Vetiveria zizanioides* in semi -steppe region of Maraveh-tappeh, Golestan province, Iran. *Journal of Rangeland Science*, 4(4): 287-297.
21. **Niknahad-Gharmakher,H.**, Piutti,s., Mchet, J.M., Benizri,E. and Recous, S. 2012. Mineralization-immobilization of sulphur in a soil during decomposition of plant residues of varied chemical composition and S content. *Plant and Soil*, 360:391-404.
22. **Niknahad-Gharmakher,H.**, Mchet, J.M., Beaudoin,N. and Recous, S. 2009. Estimation of sulfur mineralization and relationships with nitrogen and carbon in soils. *Biology and Fertility of Soils*, 45:297–304.

### **PERSIAN PUBLICATIONS WITH ENGLISH ABSTRACT**

1. Moradi, R., **Niknahad Gharmalher, H.** and Forouzeh, M.R. Investigation on the relationship between plant measurements of *Astragalus brevidens* Freyn & Sinteyn and soil properties (Case study: Asilme rangelands of Darreh gaz). 2024. *Journal of Plant Ecosystem Conservation* (accepted).
2. Mahmoudi, E., **Niknahad Gharmakher, H.**, Khosroyar,S. and Forouzeh, M.R. 2024. Effects of metal salts on some characteristics of cotton stalk derived biochar. *Journal of Water and Soil Conservation*, 31(1): 153-170.
3. Daneshi,M., Azimi, M., **Niknahad Gharmakher, H.**and Feghani,E. 2024. Investigating the effect of atmospheric nitrogen deposition on annual alfalfa and biochemical properties of Rangeland soil. *Iranian Journal of Range and Desert Research*, 30 (4): 542-556.
4. Yousofvand, S., Barani, H., Azimi, M., **Niknahad, H.** and Sharifian Bahraman, A. 2023. Ethnoecology of halophytes based on Turkmen herders' viewpoint in northern rangelands of Golestan Province. *Journal of Environmental Sciences Studies*, 8(1): 6023-6031.
5. Aranian, V., **Niknahad-Gharmakher, H.**, Bairam Komaki,Ch. and Kazemi, H. 2022. Localization of *Aellenia subaphylla* C.A.Mey. plantation in winter rangelands of Golestan province, Iran. *Journal of Plant Ecosystem Conservation*, 10 (20): 163-184.
6. Mahmoodian Choplou, A., **Niknahad-Gharmakher, H.** and Yousofi ,H. 2021. Investigation on the effect of peach trees pruned foliage biochar on soil properties of winter rangelands (Case study: Aq qala, Golestan province). *Journal of Water and Soil Conservation*, 28(2):177-194.
7. Mahmoodian Choplou, A., **Niknahad-Gharmakher, H.** and Yousofi ,H. 2020. Biochar production from peach trees pruned foliage and its qualitative properties at different temperatures. *Journal of Water and Soil Conservation*, 27(3):105-124.
8. Kiyasi, Y., Forouzeh, M. R., Mirdeilami, S. Z. and **Niknahad, H.** 2020. Environmental Factors and the Presence of Medicinal Species in Khosh Yeylagh Rangelands in Golestan Province. *Rangeland*, 14 (3): 462- 478.
9. Hasanvand, H., Azimi, M., **Niknahad-Ghermakher, H.** and Rahba, r.G. 2020. Quantifying of carbon sequestration for the ecosystem by dominant species in Tilabad rangelands, Golestan province. *Rangeland*, 14 (4): 673- 684.

10. Mahmoodian Choplou, A. and **Niknahad-Gharmakher, H.** 2019. Distribution of *Dactylis glomerata* in rangelands of Takab City (case study: Golun rangelands). Environmental Sciences, 17(3): 107-120.
11. **Niknahad-Gharmakher, H.** and Ahmadi Beni, M. 2019. Investigation on the Effects of Eco-cover on Unwanted Plant Control, Vetiver Grass Growth and Soil Properties. Journal of Plant Ecosystem Conservation, 6 (3): 141-154.
12. Ashrafzadeh, M., **Niknahad-Gharmakhar, H.**, Saharkhiz, M.J., Ghorbani Nahooji.M. and Heshmati. Gh.A. 2019. Breaking Seed Dormancy of *Clematis ispanica* and Its Optimum Planting Depth and Density (Case study: Bavanat, Fars Province). Iranian Journal of Rangeland and Desert Research, 26 (3): 371-380.
13. Ashrafzadeh, M., **Niknahad-Gharmakhar, H.**, Heshmati. Gh.A., Saharkhiz, M.J. and Ghorbani Nahooji.M. 2019. Ecological characteristics and forage quality of *Clematis ispanica* in Fars and Yazd Provinces. Iranian Journal of Range and Desert Research, 26 (2): 432-446.
14. Kiyasi, Y., Forouzeh, M. R., Mirdeilami, S. Z. and **Niknahad, H.** 2019. Ethnobotany of Edible, Medicinal and Industrial Plant Species in Khosh Yeylagh Rangeland, Golestan Province. Journal of Indigenous Knowledge, 11: 151 – 204.
15. Silakhori, E., **Gharemakhor, H.N** and Aghtabai, A. 2018. Desertification risk assessment of Incheh-broun area in Golestan province using ESAs model. Iranian Journal of Range and Desert Research, 25 (1): 63 – 77.
16. **Gharemakher, H.N.**, Aghtabye, A. and Akbarlou, M. 2018. Effects of grazing enclosure on some soil properties, erodibility and carbon sequestration (case study: Bozdaghin rangelands, North Khorasan, Iran). Iranian Journal of Range and Desert Research, 24 (4): 708 – 718.
17. Sharifiyan Bahraman, A. and **Niknahad-Gharmakher, H.** 2018. Investigation on the Effects of Grasshoppers Attack on the Rangeland Degradation from the Viewpoint of Agro-pastoralists in the North of Golestan Province. Journal of Plant Ecosystem Conservation, 5 (11): 89-101.
18. Saberi, M., **Niknahad, H.**, Heshmati, G., Barani, H. and Shahriyaei, A. 2017. Investigating morphological characteristics and effect of different treatments on improving seed germination of two *Citrullus colocynthis* stands in Sisitan and Balouchestan. Rangeland, 11 (3): 353-364.
19. Jafari, E., **Niknahad, G.H.**, Akbarlou, M. and Bahrehmand, A. 2017. Investigation on the Effects of Biomechanical Water and Soil Conservation Practices on some Soil Properties (Case study: Upstream Mountains of Gorganroud Catchment). Journal of Watershed Management Research, 8(15): 225-234.
20. Babaei, S., **Niknahad-Gharmakher, H.**, Fattahi, B. and Akbarlou, M. 2017. Investigation on the relationship between plant measurements of *Daphne mucronat* and environmental factors in Hamedan Province (case study: Lashgardar of Malayer). Iranian Journal of Range and Desert Research, 23 (3): 473-486.
21. Keykha, E. and **Gharemakher, H.N.** 2017. Investigation on the validity of soil surface indicators assessment using LFA method (case study: western rangelands of Gonbadekavous city). Iranian Journal of Range and Desert Research, 24 (3): 623 – 634.
22. **Niknahad-Gharmakher, H.**, Gholizadeh, G.M. and Maramaei, M. 2016. Introducing of Vetiver grass and its reproduction methods. Rangeland and Forest, 109: 37-43.
23. Ahmadi Bani, M., **Niknahad-Gharmakher, H.**, Maramaei, M. 2016. Effects of planting

Vetiver grass (*Chrysopogon zizanioides*) on some soil physico-chemical characteristics (A case study: Kechik station, Maraveh tapeh, Northern Iran). *Rangeland*, 9 (3): 268-280.

24. **Niknahad-Gharmakher, H.** and Kaykha, E. 2015. Impact of an alternative system on some soil properties as compare with forest and cropland systems. *Journal of Water and Soil Conservation*, 22 (2): 127-142.

25. Jafari, Z., **Niknahad-Gharmakher, H.** and Bayram Komaki, Ch. 2015. Different management's role in soil carbon sequestration (Case Study: Chat Rangelands –Gonbade kavoos). *Journal of Natural Resources Engineering*, 2 (1): 85-97.

26. **Niknahad-Gharmakher, H.**, Gholizadeh, G.M. and Maramaei, M. 2014. Evaluating the effects of topography on the survival of Vetiver grass in the Kechik catchment. *Rangeland*, 8 (3): 230-237.

27. Jafari, Z., **Niknahad, H.** and Bayram komaki, Ch. 2014. Comparing qualitative soil indicators under two range management scenarios (case study: Chut Rangelands in Gonbadekavoos). *Desert Ecosystem Engineering Journal*, 3 (4): 11-20.

28. Aslani, F., **Niknahad, H.**, Fattahi, B. and Akbarloo, M. 2013. An investigation on the effects of soil factors on the distribution and density of two unwanted species of *Rosa persica* and *Euphorbia macroclada* in Lashgardar rangelands of Hamedan province. *Journal of Plant Ecosystem Conservation*, 1 (2): 43-58.

29. **Niknahad-Gharmakher, H.** and Maramaei, M. 2011. Effects of land use changes on soil properties (Case Study: the Kechik catchment). *Journal of Soil Management and Sustainable Production*, 1 (2): 81-95.

#### ACADEMIC TEACHING EXPERIENCE:

Sustainable Management of Rangeland Soils (PhD degree), Seed Ecology (PhD degree), Biological Control of Erosion (PhD degree), Natural Ecosystem Engineering (M.Sc. degree), Rangeland Plantation (M.Sc. degree), Seeds of rangeland plants (M.Sc. degree), Relationship between Water, Soil and Plant (B.Sc. degree), Rangeland Improvement and Development (B.Sc. degree), Cultivation and propagation of rangeland plants (B.Sc. degree).

#### AWARDS:

- 1- Certificate of appreciation from the Ministry of Science, Research and Technology of Iran for the selected project of communication with society and industry (2022).
- 2- Graduation in PhD degree with highest honor (2008).
- 3- Scholarship to study abroad for PhD degree from Ministry of Science, Research and Technology of Iran, 2004-2008.
- 4- Graduation in M.S degree with highest honor (2002).

#### LANGUAGES:

French - English