
Personal Information

First name: Tahereh

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Affiliation:

Senior Research Expert of Research Institute of Forests and Rangelands and Forest Laboratory Expert

The Main Activity: Soil Biology

Date of birth: 1985.12.26

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University Qualification

2018 – 2022

Doctoral studies at the Gorgan University of Agricultural Sciences and Natural Resources, Iran. Forest Biological Sciences field.

Title of Ph.D. thesis: Comparison of variations some soil properties and organic carbon storage in two species *Prosopis cineraria* and *Prosopis juliflora*.

2010 – 2012

M.Sc. studies at the Faculty of Natural Resources, University of Guilan, Iran. Silviculture and Forest Ecology field.

Title of M.Sc. thesis: Investigation of some biological, chemical and physical characteristics of soil in three development stages in *Fagus orientalis* site in western Guilan forests, case study: Rezvanshahr forests.

2004 – 2008

B.Sc. studies at the Lahijan branch, Islamic Azad University, Iran. Forestry field.

Job and Scientific Activity

I am working in the Forest Research Department, Research Institute of Forests and Rangelands, Tehran, Iran. From 2007 until now.

During this years, I am Forest Division Research Expert and Forest Laboratory Expert. In the early years of my activity in institute, I worked on quantitative and qualitative plant activity. In the next years, I focused on the analysis of Soil Physical, Chemical and Biological (Enzymes, Respirations, Biomass Carbon and Nitrification Potential) and as well as attention to Mycorrhizal Seedling Production.

Ongoing Projects

1. Determining the optimal plantation density of *Tamarix gallica* in saline-alkali soils. Main co-worker. 2023-2028.
 2. The effect of ectomycorrhizal symbiosis of drought, salt and fungal disease tolerance in *Populus alba* (L.). Main co-worker. 2022- 2025.
 3. Assessment and monitoring of the soil of Iran-Turani forest stands (First phase). Main co-worker. 2021-2025.
 4. Assessment and monitoring of the soil of Sahara-Sindhi forests and woodlands (First Phase). **Project manager** and main co-worker. 2021- 2025.
 5. Assessment and monitoring of the soil of Hyrcanian and Arasbaran forest stands (First phase). Main co-worker. 2021-2025.
 6. Increasing seed germination of endemic species *Physoptychis gnaphalodes*, *Trigonella elliptica*, *Salvia eremophila* and *Silene staphii* in the gene bank of natural resources of Iran with the help of growth enhancing rhizobacteria. Main co-worker. 2022-2024.
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Finished Projects

1. Effect of arbuscular mycorrhizal fungi and phosphate solubilizing bacteria symbiosis on the survival of (*Pistacia atlantica* L. and *Lonicera nummulariifolia*) seedlings, First phase: in greenhouse conditions. Main co-worker. 2021- 2024.
2. Isolation and identification of urease producing bacteria from the Zagros area in order to evaluate their potential in biocement production. Main co-worker. 2020- 2023.
3. Assessment and monitoring of soil physico-chemical characteristics and leaf nutrition with emphasis on Oak decline phenomenon in Zagros forests. Co-worker. 2018- 2023.

4. Estimation of some biological indicators of Oak forest in Zagros area. Main co-worker. 2018-2022.
 5. Efficiency of arbuscular mycorrhiza in growth and performance of *Thymus kotschyanus* for the production of mycorrhizal-spreaded materials. Main co-worker. 2018- 2021.
 6. Evaluating some biological soil factors in steppe, semi-steppe, wetlands and grasslands vegetative ecosystems. Co-worker. 2014- 2018.
 7. Microbial diversity in soil of steppe ecosystem (khabr and rhochon national park, Kerman provinence). Main co-worker. 2014- 2017.
 8. Investigating the increase of growth and survival of (*Quercus brantii* Lindl.) and (*Quercus libani* Oliv.) seedlings with the help of plant growth promoting bacteria. Main co-worker. 2012-2017.
 9. The evaluation of mycorrhizal symbiosis in some tree and shrub species in Zagrosian forests and the propagation of mycorrhizal seedling *Cerasus mahaleb*, *Acer cinerascens* and *Pyrus glabra*. Co-worker. 2013- 2017.
 10. The effect of symbiosis of arbuscular mycorrhizal fungi and phosphate-dissolving bacteria on the survival of *Pistacia atlantica* and *Lonicera nummulariifolia* seedlings, the first phase in greenhouse conditions Main co-worker. 2021-2024.
 11. The Evaluation of mycorrhizal symbiosis in some tree and shrub species in Hyrcanian and Zagrosian forests and the propagation of mycorrhizal seedling *Ulmus glabra* and *Sorbus torminalis*. Co-worker. 2013- 2017.
 12. The effect of two species *Prosopis cineraria* and *P.juliflora* on some characteristics of forest soil in the Sahara-Sindhi region of Iran. Main co-worker. 2020-2023.
 13. Isolation and identification of urease-producing bacteria from the soils of the vegetation areas of Zagros in order to investigate the ability to produce bio-cement. Main co-worker. 2020-2023.
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Scientific Publications

(ISI)

1. Mehrdad Zarafshar*, Mohammad Javad Rousta, Mohammad Matinizadeh, Khosro Sagheb Talebi, Seyed Kazem Bordbar, **Tahereh Alizadeh**, Elham Nouri, Martin Karl-Friedrich Bader (2023). Scattered wild pistachio trees profoundly modify soil quality in semi-arid woodlands. *Catena*, 224: 1-10. (Q1)
2. Touran Feyzi Kamareh*, Anoushirvan Shirvany, Mohammad Matinizadeh, Vahid Etemad, Mostafa Khoshnevis, **Tahereh Alizadeh** (2012). Effects of different treatments on the

germination of wild pear (*Pyrus glabra*) seeds and their peroxidase, amylase, and catalase reactions. Journal of Medicinal Plants Research. 6(45): 5669-5676.

(ISC)

1. Mohammad Bayranvand*, Mohammad Matinizadeh, **Tahereh Alizadeh**, Elham Nouri, Hadi Droudi (2024). The effect of *Prosopis cineraria* and *Prosopis juliflora* on soil quality in the Sahara-Sindhi region of Iran (Case study: Sistan and Baluchestan province). Journal of Forest and Wood Products. 76(4): 209-311. (In Persian).
2. Maryam Teimouri, Leila Kashi Zenouzi, **Tahereh Alizadeh** (2024), Potential of urease producing bacteria on biological stabilization and prevention of soil erosion. Iranian Journal of Range and Desert Research. 30(4): 557-570.
3. Maziar Haidari*, Maryam Teimouri, Mehdi Pourhashemi, **Tahereh Alizadeh** (2023). Study Changes in Biological Indicators in Forest Stands with Different Structure in Kurdistan Province. Ecology of Iranian Forests. 10(20): 64-72. (In Persian).
4. **Tahereh Alizadeh**, Mohammad Matinizadeh*, Hashem Habashi, Seyyed Mousa Sadeghi (2022). Comparison of soil biological properties and carbon storage of *Prosopis cineraria* and *Prosopis juliflora* (Case study: Assaluyeh). Journal of Wood and Forest Science and Technology. 29(1): 89-105. (In Persian).
5. Mohammad Matinizadeh*, Elham Nouri, **Tahereh Alizadeh**, Anoushirvan Shirvany (2022). Improving the survival, establishment and growth characteristics of *Juniperus excelsa* seedlings by inoculation of native mycorrhizal fungi. Forest and Wood Products. 74(4): 421-432. (In Persian).
6. Maziar Haidari*, Maryam Teimouri, Mehdi Pourhashemi, **Tahereh Alizadeh**, Seyyed Mohammad Khaled Hedayateypour (2022). The effect of forest structures on some physical and chemical soil properties in the forests stands of Kurdistan province. Forest and Wood Products. 74(4): 469-483. (In Persian).
7. **Tahereh Alizadeh**, Hashem Habashi*, Mohammad Matinizadeh, Seyyed Mousa Sadeghi (2021). Investigating the enzyme activities and physicochemical properties of soil in the habitat of *Prosopis cineraria* (L.) Druce and *P. juliflora* (SW.) DC.. Iranian Journal of Forest and Poplar Research. 30(1): 57-69. (In Persian).
8. Mehrdad Zarafshar*, Maryam Teimouri, Mehdi Pourhashemi, **Tahereh Alizadeh**, Seyyed Kazem Bordbar, Mohammad Javad Rousta, Ali Reza Abbasi (2021). The impact of Brant's oak (*Quercus brantii* Lindl.) decline on stand soil characteristics (Case study: Kohmareh Sorkhi, Fars Province). Forest and Wood Products. 74(1): 97-110. (In Persian).
9. Maryam Teimouri*, Mohammad Hossein Sadegzadeh Hallaj, **Tahereh Alizadeh**, Mohammad Matinizadeh (2020). The effect of phosphate solubilizing bacteria on growth and nutritional

status of oak seedlings. Journal of Plant Research (Iranian Journal of Biology). 33(3): 337-347. (In Persian).

10. Maryam Teimouri*, Mostafa Khoshnevis, Mohammad Hossein Sadegzadeh Hallaj, **Tahereh Alizadeh**, Mohammad Matinizadeh, Mehdi Pourhashemi (2018). Studying the application of growth promoting rhizobacteria in rehabilitation of oak forests (Case study: Garan research station, Marivan). Iranian Journal of Forest. 10(3): 361-371. (In Persian).

11. **Tahereh Alizadeh***, Mohammad Matinizadeh, Ali Salehi, Kambiz Taheri Abkenar (2016). Changes in phosphatase activity and soil physicochemical properties in different development stages the forest beech of Rezvanshahr. Journal of Forest and Wood Products. 69(3): 453-460. (In Persian).

12. Mohammad Matinizadeh*, Mostafa Khoshnevis, Negin Armand, **Tahereh Alizadeh**, Fereshteh Shamsabadi (2015). Relationship of mycorrhizal symbiosis with nutrients of phosphorus, nitrogen and potassium, and soil enzymes in rhizosphere of *Lonicera nummulariifolia* in Chahartagh Ardal habitat. Iranian Journal of Forest. 7(3): 329-340. (In Persian).

13. **Tahereh Alizadeh***, Ali Salehi, Mohammad Matinizadeh, Kambiz Taheri Abkenar (2013). Alteration of dehydrogenase and urease enzymes activity and some chemical properties of soil in different development stages of beech stand (Case study: Rezvanshahr forest). Iranian Journal of Forest. 5(3): 337-347. (In Persian).

Instructions and Technical Publication

1- Methods of monitoring Soil Biological Indicators. 2023. Maryam Teimouri, **Tahereh Alizadeh**, Technical instructions, Ministry of Agricultural Jihad, Agricultural Education and Extension Research Organization, Research Institute of Forest and Rangelands.

2- Increasing the survival rate and improving the growth characteristics of *Acer monspessulanum* L. in the nursery using arbuscular mycorrhizal fungi. 2023. Mohammad Matinizadeh, Elham Nouri, **Tahereh Alizadeh**, Yunus Rostamikia. Technical publication, Ministry of Agricultural Jihad, Agricultural Education and Extension Research Organization, Research Institute of Forest and Rangelands.

Certificate

1. Received a certificate as an Exemplary Researcher in Research Institute of Forest and Rangelands, 2023.

2. The Exemplary Laboratory Expert in Research Institute of Forests and Rangelands, 2018.

Teaching in specialized Workshops

1. Teaching in the specialized Workshop of Soil Acid Phosphatase Enzyme in Islamic Azad University, Lahijan branch, 2016.

2. Teaching in the Specialized Workshop of Soil Alkaline Phosphatase Enzyme in Islamic Azad University, Lahijan branch, 2016.
