

CURRICULUM VITAE

MOHAMMAD MAHMOODI

Personal details:

Date of birth: 24 June 1974

Place of birth: Zanzan, Iran

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Education:

- 1995-1999: BSc in Biology, Department of Plant Science, Faculty of Biological Science, Kharazmi University, Tehran, Iran.
- 2002-2005: MSc in Plant Biology (Ecology and Systematic), Department of Biology, Faculty of Science, Bu-Ali Sina University, Hamedan, Iran.
- 2011-2015: PhD in Plant Systematics, Department of Plant Science, Faculty of Biological Science, Kharazmi University, Tehran, Iran.

Main research interests:

- Ecological Niche modeling of Plants
- Functional Ecology of Plants
- Taxonomy, Biogeography and Ecology of Astragalus
- Taxonomy of Parnassiaceae
- Biogeography and evolution of Mountain plants
- Biodiversity and Conservation of flora of Iran
- Biodiversity of Iranian Alpine Flora

MSc thesis subject:

Study of Cushion plants distribution in the southern slope of Central Alburz

PhD thesis subject:

Plant Diversity and plant functional types along elevational gradient in Damerlu Mountains of northwestern Iran

Projects:

Completed projects:

- Flora of Iran, Parnassiaceae
- Collecting of native plant seeds of Zanjan province and preserving them in Gene Bank of Institute (Phase 1: endemic, rare plants)
- Collecting of native plant seeds of Hamedan province and preserving them in Gene Bank of Institute (Phase 1: endemic, rare plants)
- Collection and Identification of lichens of Zanjan and Hamedan provinces.
- Investigation of soil seed bank ecology in step, semi-step, and grasslands ecosystems of Iran_Qom province
- Investigation of soil seed bank ecology in step, semi-step, and grasslands ecosystems of Iran_Semnan province
- Collection and determination of native plant seeds of North, North-West and North-East provinces (West Azerbaijan, East Azerbaijan, Ardebil, Tehran, Gilan, Mazandaran, Gorgan, North Khorasan, Razavi and south Khorasan) and preserving them in Gene Bank of Institute (Phase 1: endemic and rare plants)
- Collecting of woody species (tree, shrub and shrub) native and endemic to Hyrcanian and Zagros habitats for biological enrichment of the National Botanical Garden of Iran (Phase I)
- Investigation of soil seed bank ecology in step, semi-step, and grasslands ecosystems of Iran_Zanjanom province
- Investigation of soil seed bank ecology in step, semi-step, and grasslands ecosystems of Iran_Kermanshah province
- Investigation of soil seed bank ecology in step, semi-step, and grasslands ecosystems of Iran_Lorestan province
- Defining the conservation status of the plant species and ecosystems of Iran and publishing the red list of Iranian plant
- Ontogenetical evaluation and ecological role of black spot in *Dicyclophora persica* (Apiaceae)
- Floristic study of Zardroud region from Lahijan environs in Gilan province
- Floristic and Phytosociological study on Alpine vegetation of Talesh Mountains
- Taxonomic position and phylogenetic relationships of sect. *Merwia* in the genus *Ferula* (Ferulinae, Apiaceae) based on molecular evidence
- Floristic study of Kahar Mountain of Central Alborz Mountains range (Alborz province)
- Seed collecting of alpine plants in Kahar Mountain, Alborz province

Ongoing projects:

- Biosystematic study of the genus *Astragalus* in Iran; Sect. *Malacothrix* Bunge

- Ex situ conservation of plant species of Iran (endemic and rare species) -Phase II
- Collecting and identifying the seeds of endemic and rare plants in Alborz province and keeping them in the gene bank of the Forests and Rangelands Research Institute (Phase II)
- Collection and Identification of lichens and Mosses (Non-Flowering plants) and establishment of "Plants collection of them" in Central Herbarium of-Phase III
- Assessment and monitoring of ground vegetation of Irano-Turanian forest stands (First phase)
- Regeneration and evaluation of deteriorated seeds of range plants) Cruciferae ,Graminae . Labiatae .Fabaceae و Caryophyllaceae .Asteraceae.Chenodopiaceae و Umbelliferae (in Natural Resources Gene Bank of Iran.w ith inphasing of enedemic plants
- Writing of lichens Flora of Iran-Phase I
- Determination of practical seed descriptors of regenerated endemic and medicinal species of Natural Resources Gene Bank of Iran
- Information Evaluation of Information of Regenerated Rangeland Seeds in the Natural Resources Gene Bank of Iran
- Regeneration and evaluation of genetic resources of deteriorated seeds of range plants in family "Papilionaceae".
- Regeneration and evaluation of genetics resources of deteriorated seeds of range plants in family Cruciferae and Papilionaceae in Natural Resources of Gene Bank of Iran.
- Evaluation of information collected from seeds of alpine plants in Iran Natural Resources Gene Bank
- Evaluation of Information of Collected Plant Species of Iran (Endemic and Rare) in Iran Natural Resources Gene Bank - Phase II

Publications:

Book:

- **Mahmoodi, M.** (2018). Flora of Iran No. 146: (Parnassiaceae). Research Institute of Forests and Rangelands Publication, Tehran, Iran.
- Ghahremaninejad, F., Nejad Falatoury A., **Mahmoodi, M.**, Feridonfar, S. & Hoseini, E. (2013). Plant Chromosome Book of Iran. Khan-e Zistshenasi Publication, Tehran, Iran.

International peer-reviewed journals:

- Safavi, S., **Mahmoodi, M.**, Jamzad, Z. and Jalili, A., 2025. The conservation status of *Tragopogon taleghanensis*, an endemic species from Iran. Iran Nature, 10(1), pp.87-92.
- Rezaee Chamanie, K., Faghir, M.B., **Mahmoodi, M.**, Amini Rad, M. and Kazempour Osaloo, S., 2024. Leaf micromorphology of the genus *Saxifraga* (Saxifragaceae) in Iran. The Iranian Journal of Botany, 30(2), pp.184-206.

- **Mahmoodi, M.** and Safavi, S.R., 2024. *Tragopogon taleghanensis* (Asteraceae), a new species from Iran. The Iranian Journal of Botany, 30(1), pp.11-16.
- Tayebi, Z., Moghaddam, M., **Mahmoodi, M.** and Kazempour-Osaloo, S., 2024. Evolutionary history of an Irano-Turanian cushion-forming legume (*Onobrychis cornuta*). BMC Plant Biology, 24(1), p.204.
- Rahnama, F., Naderi, R., Amirahmadi, A., Noroozi, J., **Mahmoodi, M.** and Mirtadzadini, M., 2024. A botanical expedition in Eastern Alborz (Iran): rare plant species and assessing their conservation status. Phytotaxa, 642(1), pp.1-20.
- Rezaee Chamanie, K., Beygom Faghir, M., **Mahmoodi, M.**, Kazempour Osaloo, S. and Moradi, A., 2024. Using leaf micromorphology to characterize Iranian species of *Ribes* (Grossulariaceae). Feddes Repertorium, 135(2), pp.160-171.
- Moazzeni, H., **Mahmoodi, M.**, Jafari, M., Schneeweiss, G.M. and Noroozi, J., 2023. Underestimated diversity in high elevations of a global biodiversity hotspot: two new endemic species of *Aethionema* (Brassicaceae) from the alpine zone of Iran. Frontiers in Plant Science, 14, p.1182073.
- Safavi, S.R., Jarchi, E. and **Mahmoodi, M.**, 2022. Allied section and emended description of *Scorzonera helodes* Rech. f. (Asteraceae). The Iranian Journal of Botany, 28(2), pp.150-155.
- Jarchi, E., Bahadori, S. and **Mahmoodi, M.**, 2022. *Erodium amanum*, a new record for the flora of Iran. Rostaniha, 23(2), pp.300-305.
- **Mahmoodi, M.**, Ghahremaninejad, F. & Maassoumi, A. A., 2022. Diversity of vascular plants in Damirli mountains, Zanjan, NW Iran. Rostaniha 23 (supplement): ?-?. . [In Persian with English summary] (Accepted)
- Sinjushin, A., Ploshinskaya, M., Maassoumi, A.A., **Mahmoodi, M.** and Bagheri, A., 2022. Variations in Structure among Androecia and Floral Nectaries in the Inverted Repeat-Lacking Clade (Leguminosae: Papilionoideae). Plants 11(5): 649.
- Mirzadeh Vaghefi, S.S. and **Mahmoodi, M.**, 2022. Brassicaceae family in Iran. Journal of Iran Nature 6(6): 51-63. [In Persian with English summary]
- Bahadori, Sh., Jarchi, E. and **Mahmoodi, M.**, 2021. *Silene baccifera* (Caryophyllaceae), a new record for the flora of Iran. Iranian Journal of Botany 27(2): 109-114. DOI: 10.22092/ijb.2021.356875.1343
- **Mahmoodi, M.**, and Assadi, M., 2021. A new species of the genus *Acantholimon* (Plumbaginaceae) from Iran. Iranian Journal of Botany, 27(2): 71-77. DOI: 10.22092/ijb.2021.356512.1341
- Panahi, M. and **Mahmoodi, M.**, 2021. Species distribution patterns of *Ferula* sect. *Merwia*. Rostaniha 22(2):159-185.
- Nafisi, H., Kazempour-Osaloo, S., Kaveh, A. and **Mahmoodi, M.**, 2021. A Taxonomic Revision of the Genus *Hedysarum* L.(Fabaceae-Hedysareae) in Iran. Phytotaxa 511(2): 79-110.
- Almasieh, K., Negaresh, K. and **Mahmoodi, M.**, 2021. Habitat distribution and connectivity modelling of *Centaurea glastifolia* L. in northwest of Iran. Nova Biologica Reperta 8(2): 126-137. [In Persian with English summary]
- Maassoumi, A.A., **Mahmoodi, M.** and Bagheri, A., 2020. *Astragalus* sect. *Irania* (Fabaceae): A new monotypic section from Iran. The Iranian Journal of Botany 26(2): 100-110.

- Khodashenas, M., Ghonchehpour, M., Jamzad, Z., Jalili, A. and **Mahmoodi, M.**, 2020. The conservation status of *Levisticum officinale*. Journal of Iran Nature 5(3): 127-133. [In Persian with English summary]
- Safikhani, K. and **Mahmoodi, M.**, 2020. New record of *Dianthus pendulus* (Caryophyllaceae) from Iran. The Iranian Journal of Botany 26(1): 19-21.
- Soltani Pour, M.A., Jamzad, Z., Jalili, A. and **Mahmoodi, M.**, 2020. The conservation status of *Pterocephalus wendelboi*, an endemic species of Iran. Journal of Iran Nature 5(2): 115-121. [In Persian with English summary]
- Bagheri, A., Abbasi, S., **Mahmoodi, M.**, Roofigar, A.A. and Blattner, F.R., 2020. Genetic structure and conservation status of *Astragalus subrecognitus* (Fabaceae): a very rare and narrow endemic species. Plant Ecology and Evolution 153(1): 101-107.
- Soltanipour, M.A., Jamzad, Z., Jalili, A. and **Mahmoodi, M.**, 2020. The conservation status of *Zhumeria majdae*, an endemic species of Iran. Journal of Iran Nature 5(1): 91-96. [In Persian with English summary]
- Noroozi, J., Pirani, A., Moazzeni, H., **Mahmoodi, M.**, Zare, G., Noormohammadi, A., Barfuss, M.H., Suen, M. and Schneeweiss, G.M., 2020. The new locally endemic genus *Yazdana* (Caryophyllaceae) and patterns of endemism highlight the high conservation priority of the poorly studied Shirkuh Mountains (central Iran). Journal of systematics and evolution 58(3): 339-353.
- Bagheri, A., **Mahmoodi, M.**, Maassoumi, A.A. and Blattner, F.R., 2019. A new species of *Astragalus* sect. *Hypoglottidei* (Fabaceae) From Iran. The Iranian Journal of Botany 25(2): 95-102.
- Bagheri, A., **Mahmoodi, M.** and Maassoumi, A.A., 2019. The distribution patterns of *Astragalus* sect. *Hypoglottidei* DC. (Fabaceae) in Iran. Nova Biologica Reperta 6(3): 320-325.
- Noroozi, J., Zare, G., Sherafati, M., **Mahmoodi, M.**, Asgarpour, Z. and Schneeweiss, G.M., 2019. Patterns of Vascular Plant Endemism in Turkey, the Meeting Point of Three Global Biodiversity Hotspots. Frontiers in Ecology and Evolution 7: p.159. DOI: <https://doi.org/10.3389/fevo.2019.00159>
- **Mahmoodi, M.**, 2018. The conservation status of *Campanula lamondiae*: a rare endemic species in Iran. Journal of Iran Nature 3 (4): 98-102. [In Persian with English summary]
- **Mahmoodi, M.**, Moazzeni, H., Bidarlord, M., Ghahremaninejad, F., & Maassoumi, A. A., 2017. *Erysimum damirliense* sp. nov. (Brassicaceae) from Iran. Nordic Journal of Botany 35 (1): 8-13. DOI: 10.1111/njb.01305, ISSN 1756-1051.
- **Mahmoodi M.** & Nejad Falatoury A., 2016. *Allochrusa lutea* (Caryophylloideae, Caryophyllaceae) a new species from Iran. Phytotaxa 277 (2): 191-198. DOI: <http://dx.doi.org/10.11646/phytotaxa.277.2.6>
- **Mahmoodi, M.**, Zeraatkar, A., Ghahremaninejad, F. & Maassoumi, A. A., 2016. A new species of *Matthiola* (Brassicaceae, Anthonieae) from Iran. Phytotaxa 261 (2): 194-198. DOI: <http://dx.doi.org/10.11646/phytotaxa.261.2.9>.
- **Mahmoodi, M.**, Safavi, S. R., & Ghahremaninejad, F., 2016. *Tragopogon maroofii*, a new name for *T. kurdicus* Safavi & Maroofi (Asteraceae). Annales Botanici Fennici 53 (1–2): 36-36.

- **Mahmoodi**, M., Ghahremaninejad, F. & Maassoumi, A. A., 2015. Validation of the names of four Iranian plant taxa. *Phytotaxa* 227 (1): 99-100. DOI: <http://dx.doi.org/10.11646/phytotaxa.227.1.11>
- **Mahmoodi**, M., Ghahremaninejad, F. & Maassoumi, A. A., 2015. A New Record of the Genus *Myosotis* (Boraginaceae) for the Flora of Iran: Rediscovery of a Rare Plant. *Iranian Journal of Botany*, 21(1), 43-46. DOI: 10.22092/IJB.2015.101451
- Aghaahmadi, M., **Mahmoodi**, M. & Jamzad, Z., 2014. Distribution patterns of Iranian species of *Saxifraga* with their phytogeographical significance. *Rostaniha* 15(2): 85-93.
- **Mahmoodi**, M., Maassoumi, A. A., & Noroozi, J., 2013. A new alpine species and a new record of *Astragalus* sect. *Stereothrix* (Fabaceae) from Iran, with comments on the phytogeography of the section. *Willdenowia* 43: 263-270. DOI: <https://doi.org/10.3372/wi.43.43205>
- **Mahmoodi**, M., Maassoumi, A. A., & Jalili, A., 2012. Distribution patterns of *Astragalus* in the old world based on some selected sections. *Rostaniha*, 13(1): 39-56. [In Persian with English summary]
- **Mahmoodi**, M., Maassoumi, A. A., & Hamzeh'ee, B., 2009. Geographic distribution of *Astragalus* (Fabaceae) in Iran. *Rostaniha*, 10 (1): 112-132. [In Persian with English summary]

Participation at scientific meetings:

- **Mahmoodi**, M. & Hamzeh'ee, B., Floristic Composition and Depth-Related Variations in the Soil Seed Bank of Salafchegan Rangelands, Qom Province, 23rd National & 11th International Iranian Congress of Biology, University of Tehran, Tehran, Iran, 9-11 September 2024. (poster presentation)
- **Mahmoodi**, M. & Hamzeh'ee, B., Study of Floristic Composition and Depth Variations of Soil Seed Bank in Hoze-Soltan Region, Qom Province, 23rd National & 11th International Iranian Congress of Biology, University of Tehran, Tehran, Iran, 9-11 September 2024. (poster presentation)
- **Mahmoodi**, M., Ghahremaninejad, F. & Maassoumi, A. A., Plant diversity, endemism and plant functional types along altitudinal gradient in Damirli Mountains in north-west Iran, 10th Annual Meeting of the GfÖ Specialist Group on Macroecolgy, Vienna, Austria, April 2017. (poster presentation)
- Safavi, S. R., Charkhchian, M. M. & **Mahmoodi**, M., Introducing *Cladonia rangiformis*, as a biological indicator lichens for Qazvin province, 2nd National Conference of Sustainable Management of Soil and Environment Resource, Shahid Bahonar University, Kerman, Iran, September 2016. (poster presentation)
- Safavi, S. R. & **Mahmoodi**, M., *Ramalina sinensis* mas a Bioindicator lichens for Arasbaran Biosphere Reserve, 1nd National Conference of Agricultural Development and Healthy Earth, University of Tehran, Karaj, Iran, January 2016. (Oral presentation)
- **Mahmoodi**, M., Maassoumi, A. A., Mahmoodi, Kh. Distribution patterns of *Astragalus* in the old world based on some selected sections, 16th National & 4nd International Conference of Biology, at the Ferdowsi University of Mashhad, Mashhad, Iran, 14-16th September 2010. (oral presentation)

- **Mahmoodi, M.** Shahsavari, A. Mozaffarian, V. Study of distribution of Cushion plants in the southern slope of central Alborz; Ecological Nich Modeling, 14th National & 2nd International Conference of Biology, at the Tarbiat Modares University, Tehran, Iran, 29-31th August 2006. (poster presentation)
- Shahsavari, A. **Mahmoodi, M.** The study on Cushion plants in central Alborz, 14th National & 2nd International Conference of Biology, at the Tarbiat Modares University, Tehran, Iran, 29-31th August 2006. (oral presentation)
- **Mahmoodi, M.** Shahsavari, A. Mozaffarian, V. The study of altitude extension of cushion plant in central Alborz and comparing with the whole Flora-Iranica district, 14th National & 2nd International Conference of Biology, at the Tarbiat Modares University, Tehran, Iran, 29-31th August 2006. (poster presentation)

Memberships of scientific networks and societies:

- Iranian Biology Society
- Iranian RS and GIS Society

Computer skills:

- Statistical software: SPSS, MINITAB, R.
- GIS: Arc-GIS, DIVA- GIS

Language skills:

Farsi (Persian): native

Turkish: native

English: good (orally and written)

Arabic: basic

Academic references:

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