



PERSONAL INFORMATION:

Full Name: Khodayar Hemmati

Nationality: Iranian

Academic Level: Associate professor

Cell: (+98) 911-1719672

E-mail: kh_hemmati@gau.ac.ir

EDUCATION:

· BS.C. of Agricultural Engineering – Horticultural Science, Isfahan University of Technology. · MS.C. of Horticultural Science, University of Tehran.

· Ph.D. of Horticultural Science- Medicinal Plants, Tarbiat Modares University.

RESEARCH INTEREST:

- Physiology of medicinal plants
- Flavonoids of citrus
- Biotic and abiotic plant stress
- Tropical and sub-tropical fruits
- Plants hormones and growth regulators

PUBLICATION:

ISI article

- Ghezel, M. A., Ghasemnezhad, A., Hemmati, K., & Sohrabi, O. (2022). Effect of Foliar Application of Plant Extracts on the Growth Behavior and Quality of Evening Primrose (*Oenothera biennis* L.). *International Journal of Horticultural Science and Technology*, 9(4), 393-403.
- Gholizadeh, J., Sadeghipour, H. R., Abdolzadeh, A., Hemmati, K., & Vahdati, K. (2021). Bud break accompanies with the enhanced activities of hemicellulase and pectinase and the mobilization of cell wall thickenings in Persian walnut bud scales. *Trees*, 35(4), 1399-1410.

- Hatamzadeh, S., Rahnama, K., Nasrollahnejad, S., Fotohifar, K. B., Hemmati, K., & White, J. (2020). Evaluation of antioxidant activity of endophytic fungi isolated from some native medicinal species of Golestan province. *Eco-phytochemical Journal of Medicinal Plants*, 8(1), 64-76.
- Khorasaninejad, S., & Hemmati, K. (2020). Effects of silicon on some phytochemical traits of purple coneflower (*Echinacea purpurea* L.) under salinity. *Scientia Horticulturae*, 264, 108954.
- Hatamzadeh, S., Rahnama, K., Nasrollahnejad, S., Fotouhifar, K. B., Hemmati, K., White, J. F., & Taliei, F. (2020). Isolation and identification of L-asparaginase-producing endophytic fungi from the Asteraceae family plant species of Iran. *PeerJ*, 8, e8309.
- Hatamzadeh, S., Rahnama, K., Fotouhifar, K. B., Nasrollahnejad, S., Hemmati, K., & White, J. (2019). First report of *Preussia africana* for Iranian mycoflora. *Rostaniha*, 20(1), 76-79.
- Aghaei, Z., Jafari, S. M., Dehnad, D., Ghorbani, M., & Hemmati, K. (2018). Refractance-window as an innovative approach for the drying of saffron petals and stigma. *Journal of food process engineering*, 41(7), e12863.
- Khorasaninejad, S., Alizadeh Ahmadabadi, A., & Hemmati, K. (2018). The effect of humic acid on leaf morphophysiological and phytochemical properties of *Echinacea purpurea* L. under water deficit stress. *Scientia Horticulturae*, 239, 314-323.
- Gholizadeh, J., Sadeghipour, H. R., Abdolzadeh, A., Hemmati, K., Hassani, D., & Vahdati, K. (2017). Redox rather than carbohydrate metabolism differentiates endodormant lateral buds in walnut cultivars with contrasting chilling requirements. *Scientia Horticulturae*, 225, 29-37.
- Abadi, A. A. A., Khorasaninejad, S., & Hemmati, K. (2017). The effect of limited irrigation stress and humic acid on the some morphological and root phytochemical characteristics of purple coneflower. *Journal of Crops Improvement*, 19(1).
- Moghadami, F., Hemmati, K., & Akbarpour, V. (2017). Effects of harvesting time and fruit tissue type on hesperidin content in lemon fruits. *Journal of Horticulture Science*, 31(1).
- Soleimany-Fard, E., Hemmati, K., & Khalighi, A. (2014). Impact of pre-and post-harvest putrescine applications on water relations and vase life of cut alstroemeria flowers. *Advances in Environmental Biology*, 158-166.
- Babaie, H., Zarei, H., & Hemmati, K. (2014). Propagation of *Ficus benjamina* var. Starlight by stenting technique under different concentration of IBA in various time of taking cutting. *Journal of Ornamental Plants*, 4(2), 75-79.

- Gholamhosseinpour, Z., Hemati, K., Dorodian, H., & Bashiri-Sadr, Z. (2011). Effect of nitrogen fertilizer on yield and amount of alkaloids in periwinkle and determination of vinblastine and vincristine by HPLC and TLC. *Plant Sciences Research*, 3(2), 4-9.
- SOLEIMANY-FARD, E., Hemmati, K., & Khalighi, A. (2013). Improving the keeping quality and vase life of cut alstroemeria flowers by pre and post-harvest salicylic acid treatments. *Notulae Scientia Biologicae*, 5(3), 364-370.
- Maddah, A., Sharifani, M., Hemmati, K., Sadeghipour, H., & Fataei, E. (2012). Effect of cold temperature and duration on carbohydrate spectrum changes in three genotypes of *Lilium ledebourii*'s Bulb. *Caspian Journal of Applied Sciences Research*, 1(8), 1-5.
- Khormali, F., Ayoubi, S., Kananro Foomani, F., Fatemi, A., & Hemmati, K. (2012). Tea yield and soil properties as affected by slope position and aspect in Lahijan area, Iran. *International Journal of Plant Production*, 1(1), 99-111.
- Khorasaninejad, S., Mousavi, A., Soltanloo, H., Hemmati, K., & Khalighi, A. (2010). The effect of salinity stress on growth parameters, essential oil yield and constituent of peppermint (*Mentha piperita* L.). *World Applied Sciences Journal*, 11(11), 1403-1407.
- Khorasaninejad, S., Mousavi, A., Soltanloo, H., Hemmati, K., & Khalighi, A. (2010). The effect of salinity stress on growth parameters, essential oil yield and constituent of peppermint (*Mentha piperita* L.). *World Applied Sciences Journal*, 11(11), 1403-1407.
- Akbarpour, V., Hemmati, K., Sharifani, M., & Sadr, Z. B. (2010). Multivariate analysis of physical and chemical characteristics in some pomegranate (*Punica granatum*) cultivars of Iran. *J. Food Agr. Env*, 8, 244-248.
- Rahimi, A. R., Mashayekhi, K., Ghasemnezhad, A., Ebrahimi, P., & Hemmati, K. (2009). Salicylic acid plus nutritional minerals influence the essential oil production and linalool accumulation of coriander seeds (*Coriandrum sativum* L.). *Zeitschrift für Arznei- & Gewürzpflanzen*, 14(4), 167-171.
- Akbarpour, V., Milani, J., & Hemmati, K. (2009). Mechanical properties of pomegranate seeds affected by moisture content. *American-Eurasian Journal of Agricultural and Environmental Science*, 6(4), 447-453.
- Akbarpour, V., Hemmati, K., & Sharifani, M. (2009). Physical and chemical properties of pomegranate (*Punica granatum* L.) fruit in maturation stage. *American-Eurasian Journal of Agricultural & Environmental Sciences*, 6(4), 411-416.
- Sharifani, M., Hemmati, K., Hassani, S., & Fallahi, E. (2006, August). Evaluation of useful botanical traits for Iranian *Pyrus* species. In *XXVII International Horticultural Congress-IHC2006: International Symposium on Asian Plants with Unique Horticultural* 769 (pp. 185-188).

Isc articles

- Ghorbani, M., khorasaninejad, S., Hemmati, K., & ghorbani. (2022). Feasibility study of domestication of some violets (*Viola* spp.) native to Iran. *Iranian Journal of Medicinal and Aromatic Plants Research*.
- Yaghoubneshad, N., Hemmati, K., & Hemmati, N. (2022). Study of Seaweed, Lignin, and Tea Compost Effect on Crocin, Picrocrocin, Safranal Contents, and Some Phytochemical Traits in Saffron Petals and Stigmas (*Crocus sativus* L.). *Journal of Saffron Research*.
- Soroori, S., Danaee, E., Hemmati, K., & Ladanmoghadam, A. (2022). Effect of spermidine foliar application on some morphophysiological traits and secondary metabolites of marigold (*Calendula officinalis* L.) under drought stress. *Journal of Iranian Plant Ecophysiological Research*, 17(66), 108-125.
- Amini, S., Ziaratnia, S. M., & Hemmati, K. (2022). Optimization of conditions for increasing of saffron cell biomass and crocin production in stirred bioreactor. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 149(1), 243-255.
- Danesh, S., Hemmati, K., & Atashi, S. (2022). Determination Of Secondary Materials In Leaves And Orange Fruit (Thompson) In Four Geographical Directions Crown Of The Tree In Golestan Province. *Journal of Iranian Plant Ecophysiological Research*, 16(64), 75-85.
- Hemmati, K., Hemmati, N., & Karimi, M. (2021). Evaluation of the Effect of Fulvic Acid and Humic Acid on Some Morphological and Phytochemical Traits in Different Harvest Stages of *Aloe barbadensis* Leaf. *Technology of Medicinal and Aromatic Plants of Iran*, 4(1).
- Vahdatpour, F., Aroiee, H., Hemmati, K., 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), 903-914.
- Soroori, S., Danaee, E., Hemmati, K., & Ladan Moghadam, A. (2021). Effect of foliar application of proline on morphological and physiological traits of *Calendula officinalis* L. under drought stress. *Journal of Ornamental Plants*, 11(1), 13-30.
- Chorli, S., Khorasani Neghad, S., Hemmati, K., & Kashefi, B. (2020). Ethnopharmacology, quantity, and quality of flower and leaf of *Stachys lavandulifolia* Vahl. in four habitats in Semnan, Khorasan Razavi, and North Khorasan provinces. *Journal of Iranian Plant Ecophysiological Research*, 15(59), 72-88.
- Mohammadi, S. M. A., Hemmati, K., & Hoseini, S. H. (2020). Evaluation of Quantitative and Qualitative Performance and Phytochemical Traits of *Cucurbita Pepo* Var. *Striaca* under Organic Fertilizer Treatments. *Journal of Plant Production Research*, 27(3), 37-53.
- Vahdatpour, F., Aruei, H., Hemmati, K., Kamkar, B., & Sheikh, F. (2020). Effect of inoculation of *Rhizobium leguminosarum* in combination with different levels of

Pseudomonas fluorescens on some quantity traits of *Vicia faba*. *Journal of Plant Production Research*, 27(1), 223-241.

- Ebrahimnia, S., Seifi, E., Hemmati, K., & Fereidooni, H. (2020). Study of morphological diversity in some olive genotypes of Gorgan region. *Journal of Plant Production Research*, 26(4), 97-113.
- Eisapoor, M., HEMMATI, K., & Hemmati, N. (2020). Study of the Effect of Habitat on Morphological and Phytochemical Traits of Horsemint (*Mentha longifolia* L.).
- SEIFI, E., HEMMATI, K., & FEREDOONI, H. (2020). Study of morphological variation of some olive genotypes of Gorgan region.
- Sabourifard, H., Ghasemnezhad, A., Hemmati, K., Hezarjaribi, A., & Bahrami, M. (2019). Performance evaluation of Artificial Neural Networks to estimate, summer savory (*Satureja hortensis* L.) essential oil yield based on the easily available soil properties. *Journal of Plant Production Research*, 26(2), 47-58.
- Hemmati, K., Ardavanpour, B., Ghazaeian, M., & Akbarpour, V. (2019). Study of different organic media on yield components, quality and quantity of essential oil of some savory (*Satureja hortensis* L.) ecotypes in Gorgan. *Journal of Horticulture Science*, 33(3).
- Hatamzadeh, S., Rahnama, K., Nasrollanejad, S., Fotouhifar, K. B., Hemmati, K., & White, J. (2018). *Septoria malagutii* as an endophytic fungus of *Achillea millefolium* from Iran. *Mycologia Iranica*, 5(2), 105-107.
- Zare, F., Khorasaninejad, S., & Hemmati, K. (2018). The effect of silicon on some morpho-physiological and phytochemical traits of Purple Coneflower (*Echinacea purpurea* L.) under salinity stress. *Iranian Journal of Plant Biology*, 10(3), 55-68.
- Ebraheimnia, S., Seife, E., Hemmati, K., & Fereidooni, H. (2018). Evaluation of some physicochemical traits in selected oil and table olive (*Olea europaea*) genotypes compatible with climatic conditions of Gorgan. *Journal of Iranian Plant Ecophysiological Research*, 13(49), 54-68.
- Amini, S., Hemmati, K., & Norouzi, H. (2018). Evaluation of Allelopathic Effects of Some Plants Using Sandwich Method. *Journal of Plant Protection*, 32(1), 91-99.
- Feyzi, F., Seifi, E., Varasteh, F., Hemmati, K., & Fereydooni, H. (2018). The study of climatic conditions effect on physicochemical properties of pomegranate fruits cultivars Malas-e-Saveh and Malas-e-Yousef Khani. *Iranian Journal of Horticultural Science*, 48(4).
- Chorli, S., Khorasaninejad, S., Hemmati, K., & Kashefi, B. (2017). The study of morphological characteristics, antioxidant and essential oil contents of the medicinal plant *Stachys lavandulifolia* Vahl. in habitats of Semnan, Razavi, and North Khorasan provinces. *Journal of Iranian Plant Ecophysiological Research*, 11(41), 41-52.
- Sabourifard, H., Ghasemnezhad, A., Hemmati, K., Hezarjeribi, A., Bahrami, M. R., & Nosrati, F. (2017). Assessment of summer savory (*Satureja hortensis* L.) biomass by

easily-attainable soil parameters and artificial network. *Journal of Horticulture Science*, 31(3), 448-456.

- Aghaei, Z., Jafari, S. M., & Dehnad, D. (2019). Effect of different drying methods on the physicochemical properties and bioactive components of saffron powder. *Plant foods for human nutrition*, 74(2), 171-178.
- Nikdel, K., Seifi, E., Babaie, H., SHARIFANI, M., & HEMMATI, K. (2016). Physicochemical properties and antioxidant activities of five Iranian pomegranate cultivars (*Punica granatum* L.) in maturation stage. *Acta agriculturae Slovenica*, 107(2), 277-286.
- Nikdel, K., Seifi, E., Sharifani, M., & Hemmati, K. (2016). Effect of wrapping, chemical and thermal treatments on fruit shelf life and quality in pomegranate cv. Shirin Kolbad. *Journal of Food Processing and Preservation*, 8(1), 107-124.
- Nikdel, K., Seifi, E., Sharifani, M., & Hemmati, K. (2016). The Influence of Opportune Harvesting on the Fruit Quality of Pomegranate cvs. Shekar, Shirin and Sangak. *Journal of Plant Production Research*, 22(4), 101-118.
- Sanginabadi, H., Khorasaninejad, S., Hemmati, K., & Ghasemnejad, A. (2016). A study on propagation methods of *Lavandula stricta* Del. *Iranian Journal of Medicinal and Aromatic Plants*, 32(3).
- Hemmati, K., Malekian, M., Ghasemnezhad, A., & Hemmati, N. (2015). Effect of Harvesting Time on Some Flavonoids in Different Fruit Tissues of Matured Commercial Varieties of Sweet Orange. *Journal of Crops Improvement*, 17(4), 841-854.
- Babaei, H., Zarei, H., & Hemmati, K. H. (2015). The Effect of Different Concentrations of IBA, Type of Plant Rootstock and Timeing of Cuttings on Propagation of *Ficus benjamina* CV. *Variegata* by Cutting Graft. *Isfahan University of Technology-Journal of Crop Production and Processing*, 5(17), 253-261.
- Abedini, Z., Hemmati, K., & Akbarzadeh, M. (2015). Investigation the Location of Plant Growth on Amount of Essential Oil in the Brazmble Plant Leaves and Flowers (*Perovkia abrotanoides* KAREL.) IN Semnan Province.
- Abdollahi, B., Hemmati, K., & Akbarpour, V. (2015). Comparison of Plant Growth Location on Amount of Lemon Verbena Essential Oil (*Lippa citriodora*) in Mazandaran Province.
- Emrani, M., Hemmati, K., & Seifi, A. (2015). Effect of Branch Type and Leaf Harvest Season on Secondary Metabolites of Native Olive Genotypes of Golestan Province.
- Feyzi, F., Seifi, E., Varasteh, F., Hemmati, K., & Fereydooni, H. (2015). Regional Changes of Some Secondary Metabolites in Two Pomegranate Cultivars.
- Sabourifard, H., Qasemnezad, A., Hemmati, K., Hezarjaribi, A., Bahrami, M., & Nosrati, F. (2014). Estimating Biomass and Essential Oil Yield *Satureja Hortensis* Plant Using Easily Accessible Parameters with Artificial Neural Network.

- Zeinali, Z., Hemmati, K., Mazandarani, M., & Asghari, J. (2014). Aut Ecology, Ethnopharmacology, Phytochemistry and Antioxidant Activity of *Ferula Gummosa* Boiss. in Different Regions of Razavi Khorasan Province.
- Fotokian, M. H., & Badi, N. (2014). Evaluation of morphological characteristics and mucilage content of *Plantago* in Golestan, *Eco-Phytochemistry of Medicinal Plants*. 1(4).
- Emami, P., Dordipour, E., Daryashenas, A., & Hemmati, K. (2014). Determination of Dris Norms for Nine Nutrients in Peach Leaves of Golestan Province.
- Rahimi, M. N., Gholizadeh, F., Zarei, H., & Hemmati, K. (2014). Evaluation of Appropriate Ratios of Sand, Rice Hulls, and Spent Mushroom Compost on Qualitative Characteristics Of Turfgrass.
- Najjarfirozjaee, M., Hemmati, K., Khorasaninejhad, S., DARAEI, G. A., & Bagherifard, A. (2014). Effect of altitude on morphological and biochemical characteristics of nettle (*Urtica dioica* L.) plant in Mazandaran and Golestan provinces.
- Hemmati, Kh., Hemmati, N., & Ghaedi, A. 2016. The Effect of Ecotype, Root Diameter and Tissue of Licorice on Some Secondary Metabolites in Khorasan (Quchan). *Journal of Iranian Plant Ecophysiological Research*. 10 (3): 1-10.
- Hemmati, K., Shabani, E., Bashiri, S. Z., & Akbarpour, V. (2014). Effect of Canopy Geographical Directions on Hesperidin and Naringin Flavonoids of Four Citrus Species Fruits.

Translated and amassment books

- Tea (planting- growing - harvesting)-Translated
 Author: Denis Bonheur
 Translators: Khodayar Hemmati, Mehdi Sharifani
 Publisher: Aeezh tehran
 ISBN: 978-964-9700-23-6
 Year: 2007
- Olive tree pathology- amassment
 Compilers: Javad Sanei,, Khodayar Hemmati
 Publisher: Peyk-e- reyhan
 ISBN: 978-964-9983-02-8
 Year: 2010
- Plant anatomy, healthy and diseased plants- amassment
 Compilers: Seyed Javad Sanei, Seyed Hasan Zali, Abbas Biabani, Norouzali Hasan Abbasi, Khodayar Hemmati, Seyed Esmaeil Razavi
 Publisher: Peyk-e- reyhan

ISBN: 978-967-9983-00-7

Year: 2012

- The structure of vascular plants- amassment

Compilers: Seyed Javad Sanei, Seyed Hasan Zali, Khodayar Hemmati,

Azarm Movahedi Publisher: Peyk-e- reyhan

ISBN: 978-600-6334-49-3

Year: 2015

ACADEMIC TEACHING EXPERIENCE:

BS.C.

- Plant Anatomy and Physiology
- Plant Morphology and Systematics
- Tropical and Sub-Tropical Zone Fruits
- Floriculture
- Principles of Horticulture
- Plants Propagation

MS.C.

- Environmental Stresses and Physiology of Plant
- Identification and Introducing Endemic Medicinal Plants of Iran · Medicinal Plant Physiology
- Production and Exploitation of Medicinal Plants
- Plant Hormones

Ph.D.

- Physiology of Flowering
- Physiology of Yield and Growth
- Investigation and Conservation of Plant Genetic Resources

SERVICE AND PROFESSIONAL MEMBERSHIP:

- Member of Iranian Medicinal Plants Association
- Member of Iranian Horticultural Science Association
- Member of the International Association of Horticultural Sciences of I

LANGUAGES:

- Persian (Native language)
- English