



#### PERSONAL INFORMATION:

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**Nationality:** Iranian  
**Academic Level:** Associate Professor  
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**E-mail:** [H.Zarei@gau.ac.ir](mailto:H.Zarei@gau.ac.ir)  
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#### EDUCATION:

BS: Horticulture, Shiraz University, Shiraz, Iran, 1991  
MSc: Horticulture (Plant Nutrition and Environmental Pollutions) Tarbiate Modares University, Tehran, Iran, 1994  
PhD: Landscape, (An Investigation into the Missions, Values and Strategies of Contemporary Botanic Gardens in Britain with Particular Reference to Methods of Presenting Plant Collections, Landscape Dept., School of APL, Newcastle University, United Kingdom. 2007

#### RESEARCH INTEREST:

Planting design and presenting plants and plant collections in botanic gardens and in urban landscape  
Cultivation, propagation and landscape usage of native plants, ornamental plants, lawns and ground covers  
Organic agriculture, Environmental Pollutants and method of decreasing pollution in air soil and water  
Greenhouse management for research and commercial use  
Postharvest physiology of flowers and fruits

#### PUBLICATION:

Rezaei, S., Zarei, H., Nikbakht, A., & Sabzalian, M. R. (2023). Investigation of the effect of different light sources on some physiological and morphological characteristics of samurai rose. *Journal of Plant Production Research*, 29(4), 185-202.

Zarei, H., Asadi, N., Hashemi Petrodi, H. R., & Mousavizade, S. J. (2023). Evaluation of Morphological and Anatomical Features of Iranian *Galanthus transcaucasicus*. *International Journal of Horticultural Science and Technology*, 10(4), 405-420.

Abshahi, M., García-Morote, F. A., Zarei, H., Zahedi, B., & Nejad, A. R. (2022). Improvement of Rooting Performance in Stem Cuttings of Savin Juniper (*Juniperus sabina* L.) as a Function of IBA Pretreatment, Substrate, and Season. *Forests*, 13(10), 1705.

Abshahi, M., Zarei, H., Zahedi, B., García-Morote, F. A., & Nejad, A. R. (2022). Secondary metabolite changes in Maymars juniper cuttings (*Juniperus sabina*) under different treatments of propagation (IBA, substrate and harvest time of cutting). *Advances in Horticultural Science*, 36(3).

Asadi, N., Zarei, H., Hashemi-Petroudi, S. H., & Mousavizadeh, S. J. (2021). Micropropagation and assessment of somaclonal variation in *Galanthus transcaucasicus* in vitro plantlets. *Ornamental Horticulture*, 27, 505-515.

Babarabie, M., Zarei, H., & Eskandari, A. (2019). The impact of pre-harvest treatment with gamma-aminobutyric acid (GABA) and salicylic acid on vase life and post-harvest traits of tuberose cut flowers. *Acta Scientiarum Polonorum Hortorum Cultus*, 18(4), 83-92.

Abshahi, M., Zarei, H., & Rezayee Nejad, A. (2019). Study on the season of cutting, substrate and coconut juice on the rooting of Maymars juniper cuttings. *Journal of Plant Production Research*, 26(2), 15-28.

A Study on the Feasibility of Replacing Silver Nitrate with Natural Compounds in Preservative Solution of *Gerbera jamesonii* Cut Flowers Mehrdad Babarabie, Hossein Zarei and Faryal Varaste *Journal of Plant Physiology and Breeding*, 2017, 7(1): 75-86

Evaluation of Rooting of Stem Cuttings of *Magnolia soulangeana* Under Influence of Time and IBA Treatment

Zahra Golshadi Ghale-shahi, Hossein Zarei, Mahdi Alizadeh, Mehrdad Babarabie  
*Journal of Chemical Health Risks* 2017JCHR (2017) 2(4), 261-275

Effects of salicylic acid and thiamine on flowering and morphological traits of tuberose cut flowers in both hydroponic and soil systems

Mehrdad Babarabie, Hossein Zarei, Sima Badeli and Vahid Mollazadeh *Iranian Journal of Horticultural Science* 2018 Vol 49, No 1, Spring 2018 (233-243)

Investigation the capability of native herbaceous species of Gorgan as the ground covers  
H. Zarei<sup>1</sup>, E. Zeynali, M. Babarabi *Plant ecophysiology Journal* 2018 (2018)-(Vol.9)-No 32, 215-224

Investigating the Potential of Increasing of the Vase Life and some Qualitative Traits of Tuberose Cut Flowers by Non-Harmful Compounds Environmentally

Zahra Golshadi Ghaleh-shahi<sup>1</sup>, Merhdad Babarabie\*<sup>2</sup>, Sadegh Atashi<sup>1</sup>, Hossein Zarei<sup>1</sup>, Atoosa Danyaei, Sima Badeli *Journal of Chemical Health Risks* (2016) 6(4), 281-289

Rooting of Stem Cuttings of *Lonicera* plant (*Lonicera japonica* L.) under Natural and Chemical Treatments

Mehran Fathi, Hossein Zarei and Feryal Varasteh  
Journal of plant product research, 2018, vol. 25, No. 2 83-97

The Effect of Natural and Chemical Compounds on Rooting Traits of Bougainvillea  
(*Bougainvillea spectabilis* L.)  
Mehran Fathi \*, Hossein Zarei, Feryal Varasteh Journal of Chemical Health Risks 2017

The Effect of Apple Fruit Extract on Vase Life and Some Physiological Characteristics of  
*Alstroemria* cv. 'Balance' Cut Flowers  
Mehrdad Babarabie Hossein Zarei and Feryal Varasteh Agricultural communication 2016

Gibberlic acid and benzyl adenine effects on the vase life of Cycads foliage  
M. Abshahi, H. Zarei, Azim ghasemnejhad and Mahnaz Aghdasi Journal of Ornamental  
Plants 2016

Physiological response of *Gerbera jamesonii* L. cut flowers to the cola and peppermint  
essence  
Mehrdad Babarabie Hossein Zarei and Feryal Varasteh  
Iranian Journal of plant physiology 2016

Potential of increasing the vase life and improvement of some physiological characteristics  
of *Alstromeria* cut flowers by using non-harmful compounds environmentally  
Mehrdad Babarabie\*, Hossein Zarei and Feryal Varasteh  
Journal of chemical health risks 2016

Investigation of the Impact of Benzyladenine and Several Natural Compounds on the Vase  
Life and Some Qualitative Traits of Tuberose Cut Flowers  
Zahra Golsahdi Ghaleh Shahi , Mehrdad Babarabie , Sadegh Atashi , Hossein Zarei and  
Atoosa Danyaei  
Journal of Ornamental Plants 2016

The Effect of Rosemary Essential Oils and Thymol on Vase Life and Some Physiological  
Characteristics of *Alstroemeria* Cut Flowers  
M. babarabie H. Zarei and F. Varasteh 2015

Changes in Chlorophyll Content, External Quality Characters, Dry Weight and Vase Life of  
*Strelitzia* (*Strelitzia* spp.) Leaves Affected by Different Preservative Solutions  
M. Abshahi, H. Zarei, Azim ghasemnejhad and Mahnaz Aghdasi  
Plant physiology and breeding 2014

Micropropagation of *Hippeastrum hybridum*  
H. Amani H. Zarei and A. M. Azar and K. Mashayekhi  
Cumhuriyet University of Science 2014

Effect of Different Concentrations of IBA and Time of Taking Cutting on Rooting, Growth and Survival of *Ficus binnendijkii* 'Amstel Queen' Cuttings  
Hamed Babaie Hossein Zarei Khodayar Hemmati  
Notulae Scientia Biologicae 2014

Study of bush feeding role with complete fertilizer and date of sowing in increasing broccoli yield in Mazandaran province climate  
Bentolhoda Asghari, Hossein Zarei, M. S. Khavari, P. Moradi  
International of Journal of Farming and Allied science 2014

Evaluation of Propagation of Chinese Hibiscus (*Hibiscus rosa-sinensis*) through Stenting Method in Response to Different IBA Concentrations and Rootstocks  
Zeinab Izadi\*, Hossein Zarei  
American Journal of Plant Sciences 2014

Effect of time, cultivar and rootstock on success of rose propagation through stenting technique  
Zeinab Izadi\*, Hossein Zarei, Mahdi Alizadeh  
American Journal of Plant Sciences 2014

Role of grafting techniques on the success of stenting propagation of two rose varieties  
American journal of plant sciences (2013) Vol. 4, 41-44  
Z. Izadi, H. Zarei, M. Alizadeh

An investigation into the "Management Status" of active ornamental greenhouses of the Gorgan Area.

By: S.S. Hosseini and H. Zarei  
Journal of Plant Production, Persian Version, 2007. Vol. 16, 110-120

Comparison of Different Pot Mixtures Containing Perlite on Growth and Morphological Characteristics of Pothos (*Scindapsus Aureum* L.)

By: Fatemeh Bidarnamani and Hossein Zarei  
Journal of Ornamental Plants, Vol. 4, 29-38, Dec. 2014.

Evaluation of planting design in some urban green spaces of Iranian cities, considering their form and functionality (in Persian)

Electronic Journal of Agricultural Sciences of Golestan, 2<sup>nd</sup> year, Vol. 2, (2008)  
By: M. Maroof, H. Zarei, A. R. Mikaeili

Influential indexes of urban parks on health and psychological quality; based on specialist ideas.

Journal of Urban Landscape Research, Vol. 1, No. 1, 2014. [www.julr.ir](http://www.julr.ir) (in Persian)  
By: M. Maroof, H. Zarei, A. R. Mikaeili

Effect of rosemary extract on vase life and some qualitative characteristics of cut carnation flowers (*Dianthus caryophyllus* cv. 'white liberty').

By: Yeganeh Basiri, Hossein Zarei, Kambiz Mashayekhy and Mohammad Hadi Pahlavany  
Journal of Stored Products and Postharvest Research Vol. 2(14), pp. 261 – 265, 16  
November, 2011. Available online <http://www.academicjournals.org/JSPPR>

Evaluation of effect of organic fertilizer's treatments and soil compaction on the qualitative traits of sport lawn in different seasons.

By: Soheila Javahery, Hossein Zarei, S. A. R. Movahedi Naeini, Gh. Roshani  
Journal of Advanced Laboratory Research in Biology, 2011,

Leaf Area, Fresh Weight and Dry Weight Prediction Models for Ornamental Plants; *Ficus Benjamina* (Cv. Star Light).

By: F. Bidarnamani, H. Zarei, K. Mashayekhi and B. Kamkar  
Journal of Advanced Laboratory Research in Biology, 2011 ([www.jalrb.com](http://www.jalrb.com))

The effect of different organic fertilizers in various compactness levels on some nutrients content of sport lawn

By: Soheila Javahery, Hossein Zarei, S. A. R. Movahedi Naeini, Gh. Roshani  
Journal of Advanced Laboratory Research In Biology, 2011,

Propagation of *Ficus benjamina* var. Starlight by Stenting Technique under Different Concentration of IBA in Various Time of Taking Cutting.

H. Babaei, H. Zarei and K. Hemati  
Journal of Ornamental Plants, [www.jornamental.com](http://www.jornamental.com), 2014. Vol. 4.

Study of bush feeding role with complete fertilizer and date of sowing in increasing broccoli yield in Mazandaran province climate.

International of Journal of Farming and Allied science. January 2014.  
Bentolhoda Asghari, Hossein Zarei, M. S. Khavari and P. Moradi

"Studies on vegetative propagation of *Rosa canina*"

Indian Journal of Horticulture. 2012. Vol. 64. Issue4.

Z. Izadi<sup>\*</sup>, H. Zarei and M. Alizadeh

The Regulating Effect of the Indole Butyric Acid and the Time of Stem Cutting Preparation on Peroliferation and growth of Damask Rose (native cultivar).

Mahsa Kashefi, Hossein Zarei and Farzaneh Bahadori  
Journal of Ornamental Plants, Vol. 4, 49-55, Dec. 2014.

#### **ACADEMIC TEACHING EXPERIENCE:**

Park and Garden Design

Floriculture

Lawn and Ground Covers

Computer use in Greenspace

Ornamental Trees and Shrubs  
Greenhouse management  
Plant Nutrition

**SERVICE AND PROFESSIONAL MEMBERSHIP:**

Head of Horticulture Department, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran 2006-2008

Head of Horticulture Department (2<sup>nd</sup> time), Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran 2011- 2013

Green space consultant/advisor to the city council of Gorgan city, 2007-2008

Supervisor of more than 60 MSc. students since 2007

Supervisor of more than 8 PhD students since 2013

**LANGUAGES:** Persian and English



Gorgan University of Agricultural  
Sciences & Natural Resources