

Curriculum Vitae

Isa Arji (PhD)

Associate Professor of Horticulture

Horticultural Sciences and Engineering Department

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EDUCATION

1. **PhD:** Fruit culture (Pomology and fruit tree physiology), Tarbiat Modares University (TMU), Iran, 2003
2. **MSc:** Fruit culture (Pomology and fruit tree physiology), Tarbiat Modares University (TMU), Iran, 1998
3. **BSc:** Horticulture, University of Tehran, Iran, 1994

Thesis:

1. **PhD thesis:** The effect of drought stress on morphological, physiological and biochemical traits of some olive cultivars.
2. **MSc thesis:** The effect of different irrigation amount on vegetative growth of two young olive cultivars.

COURSES TAUGHT

1. Plant Growth Regulators; Plant Nutrition; Stress Physiology of Horticultural Plants (MSc Graduate)
2. Pomology, Principle of horticulture; Plant propagation; Floriculture; Olericulture (BSc Undergraduate);

RESEARCH INTERESTS

1. Pomology (Fruit production and orchard management system)
2. Breeding (Germplasm identification, evaluation, preservation, and controlled hybridization)
3. Physiology (Water relations and plant hormone interactions, plant nutrition and environmental stress)
5. 4- ornamental plants

PROFESSIONAL EXPERIENCE

1. Deputy Head of Agricultural and Natural Resources Research Center of Kermanshah from March 2004 to 2012.
2. Head of Crop and Horticultural Science Research Department from June 2018- 2020
3. Scientific member of Razi University since 2020
4. Head of Horticultural Sciences and Engineering Department of Razi University from December 10, 2023.

COMMITTEE MEMBER

1. Scientific committee member and session chair in many regional and national

2. Horticultural Symposiums, Conference and Congress from 2003 to present.
3. Member of seed and plant Committee at Kermanshah Jehade Agriculture organization.
4. Member of Research Committee at Agricultural and Natural Resources Research Center of Kermanshah
5. Member of horticultural Committee at Kermanshah Jehade Agriculture organization.
6. Member of National Olive Committee at Seed and Plant Institute (SPII) Karaj, Iran
7. Member of Research and Technical Committee at Seed and Plant Institute (SPII) Karaj, Iran
8. Scientific Committee member of first national Iranian olive culture
9. conference.
10. 8- Scientific secretary of the first national Iranian olive Festival and conference in 2005.
11. Scientific Committee member of the National Conference on Consumption Pattern Reforms in Agriculture and Natural Resources in Kermanshah, Iran.
12. Scientific Committee member of the National Conference on New communication strategies research and extension based on Farmer circuit.
13. Scientific Committee member of the Iranian Horticultural Congress from 2017 till now.

REFeree OF SCIENTIFIC JOURNALS

Referee for more than 10 national and international Scientific Journals such as Journal of Plant Nutrition, J. Agr. Sci. Technol. (JAST), Seed and Plants, Iranian Journal of Horticultural Science, Seed and Plant Production Journal

PUBLISHED INTERNATIONAL JOURNAL ARTICLES (PEER REVIEWED)

1. Arzani, K. and **Arji, I.** 2000 The effect of water stress and deficit irrigation on young potted olive cv Local-Roghani Roodbar. *Acta Horticulturae* 537(2):879-875. http://www.actahort.org/books/537/537_106.htm
2. Arzani, K. and **Arji, I.** 2002 The response of young potted olive plants cv. 'Zard' to water stress and deficit irrigation *Acta Horticulturae* 586:419-422. http://www.actahort.org/books/586/586_86.htm
3. **Arji, I.** and Arzani, K. 2008. Effect of water stress on some biochemical changes in leaf of five olive (*Olea europaea* L.) cultivars . *Acta Horticulturae* 791:523-526. http://www.actahort.org/books/791/791_80.htm
4. Ghamarnia, H., Golamian, M., Sepehri, S. and **Arji, I.** 2011. Shallow groundwater use by Safflower (*Carthamus tinctorius* L.) in a semi-arid region. *Irrigation Science*. 29(2): 147-156.
5. Ghamarnia, H., Golamian, M., Sepehri, S. **Arji, I.** and Rezvani, V. 2012. Groundwater contribution by Safflower (*Carthamus tinctorius* L.) under high salinity, different watertable levels, with and without irrigation. *Journal of Irrigation and Drainage Engineering*. 138(2):156–165.
6. Ghamarnia, H., **Arji, I.**, Sepehri, S. Norozpour, S. and Khodaei, E. 2012. Evaluation and comparison of drip and conventional irrigation methods on sugar beet in semi arid region. *Journal of Irrigation and Drainage Engineering*. 138(1), 90–97

7. Ghamarnia, H., Golamian, M., Sepehri, S. **Arji, I.** and Norozpour, S. 2013. The contribution of shallow groundwater by Safflower (*Carthamus tinctorius* L.) under high watertable conditions with and without supplementary irrigation. *Irrigation Science*. 31(3):285-299.
8. Ghamarnia, H., Parandin, M. A., **Arji, I.** and Rezvani, V. 2013. An Evaluation and comparison of drip and conventional furrow irrigation methods on maize. *Archives of Agronomy and Soil Sciences*. 59(5): 733-751.
9. Kyomars Abbasi, **Isa Arji**. 2014. Pomological Diversity of Fig (*Ficus carica* L.) Accessions of Kermanshah, Iran. *Journal of Biodiversity and Environmental Sciences*. Vol. 5, No. 3, p. 202-209, 2014
10. Houshang Ghamarnia, Fatemeh Mousabeygi and **Isa Arji**. 2014. Lemon Balm (*Melissa officinalis* L.) Water Requirement, Crop Coefficients Determination and SIMDualKc Model Implementing. *Uropean Journal of Medicinal Plants*. 5(3): 281-296.
11. Houshang Ghamarnia, Davod Amirkhani and **Isa Arji**. 2014. Basil (*Ocimum basilicum* L.) Water Use, Crop Coefficients and SIMDualKc Model Implementing in a Semi-arid Climate. *International Journal of Plant & Soil Science*, 4(6): 535-547.
12. **Arji, I.** 2015. Determining of Growth and Yield Performance in some Olive Cultivars in Warm Conditions. *Biological Forum* 7(1): 1865-1870.
13. Hoda Bashiri . Kianoosh Cheghamirza . **Isa Arji** and Noshin Mahmodi. 2017. Assessing genetic diversity of Pyrus spp. in the central Zagros mountains based on morphological characters. *Genetic Resources and Crop Evolution*. 64(21): 391-404.
14. Ghorbani T, Kahrizi D, Saeidi M, Arji I. 2017. *Effect of sucrose concentrations on Stevia rebaudiana* Bertoni tissue culture and gene expression. *Cellular and Molecular Biology*. 63(8): 33-37.
15. Ahmadipor S., Arji, I ., Ebadi, A. and ahid Abdossi,V. 2018. Physiological and biochemical responses of some olive cultivars (*Olea europaea* L.) to water stress. *Cellular and Molecular Biology*. 64(15): 20-29.
16. Arji, I. 2018. Stability analysis of fruit yield of some olive cultivars in semi-arid environmental condition. *Advances in Horticultural Sciences*. 32(4): 517-524.
17. Zonouri M., Bakhshi D., Fallahi E. and Arji I. 2019. Total phenolics and anthocyanin content of two red grape (*Vitis vinifera* L.) CVS Sahebi and Halagho cultivars as affected by pruning severity and cane lenght. *Periodico Tche Quimica*. 16(33): 602-612.
18. Zonouri M., Bakhshi, D., Fallahi F. and Arji I. 2019. Bunch number and antioxidant activity in Sahebi and Halagho grapes affected by pruning intensity and cane length. *Southern Brazilian Journal of Chemistry*. 16(32): 8-12.
19. Zohouri, M., Abdollahi, H., Arji, I. and Abdossi, V. 2020. "Variations in growth and photosynthetic parameters of some clonal semi-dwarfing and vigorous seedling pear (*Pyrus* spp.) rootstocks in response to deficit irrigation. *Acta Scientiarum Polonorum Hortorum Cultus*, vol. 19, no. 2, pp. 105-121, DOI:<https://doi.org/10.24326/asphc.2020.2.11>..
20. Omid-Ali Amjadian., · Isa Arji.,· Mahdi Changizi, · Shahab Khaghani and · Hamid-Reza Salehi. 2020. Determination of cyanogenic glycosides in endemic

- species of wild almond seeds in the Zagros Mountains. *Brazilian Journal of Botany*. 43:697–704. <https://doi.org/10.1007/s40415-020-00668-7>
21. Arji, I. and Norizadeh, M. 2021. Primary compatibility study of Greek olive cultivars in Tarom environmental conditions of Zanjan Province. *Acta Hortic*. 1315. 29-34. DOI 10.17660/ActaHortic.2021.1315.5.
 22. Arji I., Ahmadipour, S., Ebadi, A. and Abdosi, V. 2021. Biochemical changes of some olive (*Olea europaea* L.) cultivars under water-deficit stress. *Acta Hortic*. 1315. 383-390. DOI 10.17660/ActaHortic.2021.1315.57.
 23. Gerdakaneh M., Gholami R. and Arji I. 2021. Quantitative and qualitative characteristics of fruit of some strawberry cultivars under hydroponic cultivation. *Central Asian Journal of Plant Science Innovation* 1(4): 209–213 .
 24. Arji I., Safari M. and Hadawi I. 2021. Effects of Different Organic Manures and Chemical Fertilizers on Yield and Yield Component of Olive (*Olea europaea* L.,) cv Zard In Kermanshah Province. *Agrotechniques in Industrial Crops*. 1(2): 61-70.
 25. Arji I., Karimpour Kolehjoobi S., Nejatian M.A . and Upadhyay T.K. 2022. Yield and Yield Components of Grapevines as Influenced by Mixed Nano Chelated Fertilizer, Humic Acid and Chemical Fertilizers. *Agrotechniques in Industrial Crops*. 2(3): 156-165.
 26. Gholami R., Fahadi Hoveizehb, N., Zahedic S.M., and Arji I. 2023. Effect of organic and synthetic mulches on some morpho-physiological and yield parameters of 'Zard' olive cultivar subjected to three irrigation levels in field conditions. *South African Journal of Botany*. 11(162): 749-760.
 27. Ahmadi E., Gerdakaneh M., Arji I. and Abasi Zalani M. 2025. The Effect of Plant Growth Regulators on Shoot Regeneration of Two Wild Almond Species *Amygdalus scoparia* L. and *Amygdalus lycioides* Spach. *Agrotechniques in Industrial Crops*, 5(1): 50-56.
 28. Gholami R., Arji I. and Fahadi Hoveizeh N. 2025. Investigating the State of Flowering and Fruit Formation of Some Olive Cultivars under the Stress of Low Irrigation and Salicylic Acid Foliar Application. *Agrotechniques in Industrial Crops*. 5(1): 27-33.

PUBLISHED NATIONAL JOURNAL PEER REVIEWED ARTICLES

1. Arzani, K. and **Arji, I.** 2000 Response of young olive plants cv 'Local Roghani Roodbar' to water stress and deficit irrigation. *Seed and Plant* 16(1):99-109 (In Persian).
2. **Arji, I.** Arzani, K. and Mirlatifi, M. 2002. Effect of different irrigation amounts on physiological and anatomical responses of olive (*Olea europaea* L. cv. Zard). *Journal of Soil and Plant Sciences* 16(1):112-120 (In Persian).
3. **Arji, I.** and Arzani, K. 2003. Evaluation of the growth responses and proline accumulation of three Iranian native olive cultivars under drought stress. *Journal of Agricultural Sciences and Natural Resources* 10(2):91-101 (In Persian).
4. **Arji, I.**, Arzani, K. and Ebrahizadeh, H. 2004. Quantitative study of proline and soluble sugars of five olive (*Olea europaea* L.) cultivars under drought stress conditions. *Iranian Journal of Biology* 16(4):47-59 (In Persian).
5. Yazdani, N., Arzani, K. and **Arji, I.** 2007. The amelioration effect of paclobutrazol on water stress on olives (*Olea europaea*) cv. Blidi and Mission. *Iranian Journal of Agricultural Science* 38(2):287-296 (in Persian).

6. Ghamarnia, H., **Arji, I.**, Javadi Baigy, M. and Sepehri, S. 2008. Comparison of Different Surface (Furrow) and Drip (Tape) Irrigation Methods on Sugarbeet From Point View of Water Use and Yield in the Eastern Part of Kermanshah Province. *Agricultural Research, Water, Soil and Plant in Agriculture*. 8(3):9-22 (in Persian).
7. Sheikhmoradi, F., **Arji, I.**, Esmaceli, A. and Abdosi, V. 2011. Evaluation on the effect of irrigation duration and superabsorbent on the qualitative traits of sport lawn. *Journal of Horticultural Science*, 25(2):170-177 (in Persian).
8. Ahmadipour, S. and **Arji, I.** 2012. Evaluation on Zard and Roghani olive cultivars responses in different regions of Kermanshah. *The Plant Production*. 35(1): 113-126 (in Persian).
9. **Arji, I.**, Zeinanloo, A.A., Hajiamiri, A. and Najafi, M. 2013. An investigation into different olive cultivars responses to Sarpole Zehab environmental conditions. *The Plant Production*. 35(4):17-28 (in Persian).
10. **Arji, I.**, Miri, S. and Abdosi, V. 2013. An investigation into the effects of planting date on quantity and quality traits of some potato (*Solanum tuberosum* L.) cultivars in Ghasre Shirin. *The Plant Production*. 35(4):43-54 (in Persian).
11. Gholami, R., Arzani, K. and **Arji, I.** 2013. Effect of paclobotrazol (PBZ) and different irrigation amounts on vegetative growth and performance of young olive plants cv. Manzanillo. *Journal of Horticultural Sciences*. 26(4):402-408 (in Persian).
12. Gholami, R., **Arji, I.** and Gerdakaneh, M. 2013. Study of irrigation interval and mulch effects on vegetative growth of olive in Kermanshah province. *Journal of Horticultural Sciences*. 27(1):74-81 (in Persian).
13. Ghorbani, T., Cheghamirza, K. and **Arji, I.** 2013. Evaluation of genetic diversity in pomegranate using morphological traits and molecular markers. *Journal of Agricultural Biotechnology*. 5(1): 111-127 (in Persian).
14. Gerdakaneh M. and Arji I. 2014. The effect of NAA and different explants on Secondary somatic embryogenesis of strawberry (*Fragaria ananassa* Duch.). *Journal of Plant Research (Iranian Journal of Biology)*. 27(3): 501-510.
15. Baghideh, M., Amirahmadi, A., **Arji, I.** and Khajavi, J. 2014. Evaluation of frost and its relationship with yield of walnuts and almonds in Kermanshah province. *Arid regions Geographic Studies*. 4(4):49-66 (in Persian).
16. Hajiamiri, A., **Arji, I.** and Najafi, M. 2014. Investigation and comparing of some foreign olive (*Olea europaea* L.) cultivar adaptation ability to Sarpole Zehab environmental conditions. *The Plant Production*. 36(4):55-68 (in Persian).
17. Rashidi, N., **Arji, I.**, Gerdakaneh, M. and Kashi, A. 2014. The Effect of Organic Manure and Water Super Absorbent on Tuber Yield and Yield Components of Potato (*Solanum tubersum* cv. Marfona). *Plant Production Technology*. 13(2):11-22.
18. Arji, I. and Norizadeh, M. 2014. Adaptability of some Olive Cultivars in Taroum and Sarpole Zehab Environmental Conditions. *Seed and Plant Journal*. 30-1(4): 703-717.
19. Rashidi, N., **Arji, I.**, Gerdakaneh, M. and Kashi, A. 2015. The effect of organic manure and super absorbent on physiological and biochemical characteristics of potato (*Solanum tubersum*, cv Marfona). *Journal of Horticultural Sciences*. 28 (4): 453-463

20. Arji, I. and Bahmanipour, F. 2014. Adaptation Ability of some Olive Cultuvars and Genotypes in Ilam Province. *Seed and Plant Journal*. 30-1(4): 761-775.
21. Zeinanloo, A.A., Arji, I., Taslimpour, M., Ramazani Malak Roodi, M. and Azimi, M. 2015. Effect of cultivar and climatic conditions on olive (*Olea europaea* L.) oil fatty acid composition. *Iranian Journal of Horticultural Science*. 46(2): 233-242.
22. Arji, I., Hassani, B. and Ghamarnia, H. 2016. Effect of deficit irrigation on vegetative characteristics and quality and quantity of apple Golden Delicious. *journal of horticultural science*. 29(4):610-620.
23. Gholami, R., Sarikhani, H. and Arji, I. 2016. Effects of Deficit Irrigation on Some Physiological and Biochemical Characteristics of Six Commercial Olive Cultivars in Field Conditions. *Iranian Journal of Horticultural Science and Technology*. 17 (1) :39-52.
24. Gholami, R., Sarikhani, H. and Arji, I. 2017. Effect of deficit irrigation on vegetative characteristics, yield and fruit quality of three olive oil cultivars. *Iranian Journal of Horticultural Science*. 48(1): 191-201.
25. Azimi, M., Arji, I., Zeinanloo, A.A., Taslimpour, M.R. and Ramazani Malekroodi, M. 2017. Evaluation of compatibility of some olive varieties (*Olea europaea* L.) in different climates of Iran. *Seed and Plant Improvement Journal*. 32-1(3): 275-292.
26. Arji, Isa. 2017. Olive fruit dry matter and oil accumulation in warm environmental conditions. *Iranian Journal of Horticultural Sciences*. Special Issue, 35-43.
27. Shiri, A., Mohamadyar, S., Akbari, P. and Arji, I. 2017. The Role of Human Sources Extension Education in *Thymus vulgaris* Performance Improving in the West of the Iran. *Journal of Agricultural Education Administration Research*. 41: 16-27.
28. Gerdakaneh, M. Mohammadi N. and Arji, I. 2018. Study of seasonal variation on essential oil content and constituents of eucalyptus (*eucalyptus globulus*) in three zones of Kermanshah Province. *Journal of Medicinal Plants*. 2(6):51-62.
29. Arji, I. and Mahnam, S. 2018. Effect of Bud Number on some Quantitative and Quality related Traits of Yaghooti Grapevine Cultivar in Sarpol-e-Zehab Region. *Research Achievement for field and Horticultural Crops*. 7(1): 49-62.
30. Arji, I. and Norizadeh M. 2018. Evaluation of Some Olive Genotypes Adaptability under Taroum Environmental Conditions. *Journal of Plant Productions*. 41(3):73-82. (DOI): 10.22055/PPD.2018.22464.1482
31. Arji, I., Norizadeh, M., Mostafavi, K. and Gholami, R. 2018. Evaluation of Vegetative, Reproductive and Plomological Characteristics of Some Promising Olive Genotypes in Tarom of Zanjan in Iran. *Seed and Plant Journal*. 34(3): 265-285.
32. Gholami, R., Arji, I. and Akbari, F. 2018. Evaluation of Some Fruit Characteristics and Yield Promising Olive Genotypes in Kermanshah Province in Iran. *Seed and Plant Journal*. 34(2): 161-175.
33. Gholami, R. and Arji, I. 2018. Effect of Deficit Irrigation on Quantitative and Qualitative Characteristics of Olive Fruit (Zard Cultivar) in Kermanshah Province. *Seed and Plant Production*. 34(1); 39-52.

34. Gholami, R. and Arji, I. 2019. Regulated Deficit Irrigation Regime Effects on Vegetative, Oil Yield and Oil Content and Water Use Efficiency of Zard Cultivar. *Journal of Horticultural Sciences*. 32(4): 605-614.
35. Gholami, R. and Arji, I. 2019. Effect of Mulch and Irrigation Interval on Morph-physiological Characteristics of Olive (*Olea europaea* cv. Sevillana) under Field Condition. *Plant Production Technology*. 19(2): 157-166.
36. Ahmadipour, S., Arji, I., Ebadi, A. and Abdossi V. 2019. Morphological, physiological and biochemical changes of young plants of some olive cultivars (*Olea europaea* L.) under drought stress conditions. *Iranian Journal of Horticultural Sciences*. 50(2): 275-286.
37. Arji, I., Mahnam, S. and Hadavi, I. 2019. Effect of Reduced Irrigation and Pruning Severity on Quality and Quantity of Yaghooti Grape in the Environmental Condition of Sarpole Zehab, Kermanshah Province. *Plant Production Technology*. 19(1): 89-102.
38. Arji, I., Fayz, R. and Gerdakaneh M. 2019. The Effect of Number of Buds per Vine and Cane on Yield and Productivity Coefficient of Perlette Grape Cultivar . *Plant Productions*, 42(3): 321-332.
39. Arji, I., Gholami, R. and Najafi, M. 2019. Pomological Characteristics and Fruit Yield of Some of Ilam Native Olive Genotypes Under Sarpol-e-Zahab Environmental Conditions. *Seed and Plant Journal*. 35(2): 153-170.
40. Zohori, M., Abdolahi, H., Arji, I. and Abdossi, V. 2019. Preliminary Selection of Some Pear Rootstocks for Tolerance to Deficit Irrigation Stress Based on the Growth and Physiological Indices. *Seed and Plant Production*. 35(2):285-301.
41. Gholami, R. and Arji, I. 2019. Effect of Mulch and Irrigation Interval on Morph-physiological Characteristics of Olive (*Olea europaea* cv. Sevillana) under Field Condition. 11(2): 157-166.
42. Arji, I., Karimpour kolejebi, S. and Nejatian, A. 2020. Investigating the effects of humic acid, nano fertilizer and chemical fertilizer treatments on the quantitative and qualitative characteristics of Yaghooti grapes in Kermanshah province. 1(1): 1-8.
43. Arji, I., Rostami Dasgerdee, M. and Gerdekaneh, M. 2020. Comparison of acid scarification, cold stratification on seed germination of three olive cultivars. *Iranian Journal of Seed Science and Technology*. 9(2): 119-132.
44. Gerdakaneh, M., Mohamadi, M., Badakhshan, H. and Arji, I. 2020. The effect of growth regulators on micropropagation of GF677 rootstock under liquid medium conditions. *Journal of Plant Production*. 27(2): 43-57.
45. Gerdakaneh, M., Badakhshan, H., Mohamadi, M., and Arji, I. 2020. Effect of Different Media and Growth Regulators on Micropropagation of GF677. *Plant Productions*. 43(2): 241-254.
46. Arji, I., Hoshmand D., and Gholami R. 2021. Phenological Evaluation and Harvest Index Identification of some Olive Cultivars in Sarpole Zehab Region. *Plant Production Technology*. 20(2): 53-63.
47. Gholami, R. and Arji, I. and Hajiamiri, A. 2021. Yield stability and Pomological Characteristics of Commercial Cultivars Konservolia, Zard and Amphis Olive under Deficit Irrigation Stress and Salicylic Acid Foliar Application. *Journal of Agricultural Science and Sustainable Production*. 31(4): 221-233.

48. Gholami, R., Hashempour, A., Arji I. and Hajiamiri, A. 2021. Growth, physiological and biochemical response of six commercial olive cultivars to kaolin foliar application in warm conditions. *Plant Process and Function*. 10 (45) :15-26.
49. Gholami, R., Hashempour, A., Arji I. and Hajiamiri, A. 2022. Evaluation of fruit characteristics and yield of six commercial olive cultivars to kaolin foliar application in warm conditions. *Iranian Journal of Horticultural science*. 52(4): 927-935.
50. Gholamia R., Fahadi Hoveizehb, N., and Arji I. 2023. Dry Matter and Oil Accumulation in Fruit of Some Olive Promising Genotypes under Sarpol-e Zahab Environmental Conditions in Iran. *Seed and Plant Improvement Journal*.39(1): 51-66.
51. Gholamia R., Arji I. and Hajiamiri, A.M. 2023. The effect of foliar spraying of salicylic acid on growth, physiological and biochemical responses of some commercial olive cultivars under low irrigation stress conditions. *Pomology Research*. 7(2): 95-103.
52. Arji I., Gerdakaneh M., Imani A. and Gholami R. 2024. Evaluation of quantitative and qualitative traits of peach cultivars under climatic conditions of Kermanshah province. *Plant Production*. 47(4): 631-646.
53. Gholami, R., Hashempour, A., Arji I. and Hajiamiri, A. 2025. Effects of Foliar Spraying with different Concentration of kaolin on Flowering and Fruit Set of six Commercial Olive Cultivars under Warm Climatic Conditions. *Journal of Agricultural Science and Sustainable Production*. 35(1):183-193.

PAPERS PRESENTED IN THE INTERNATIONAL CONFERENCES

1. Arzani, K. and **Arji, I.** 1999 The effect of water stress and deficit irrigation on young potted olive cv Local-Roghani-Roodbar 3rd International symposium on irrigation of horticultural crops. June 28- July 2 Lisboa Codex, Portugal.
2. Arzani, K. and **Arji, I.** 2000 The response of young potted olive plants cv. Zard to water stress and deficit irrigation. 4th International symposium on olive growing (OLIVE 2000) 25-30 September, Valenzano (Bari), Italy.
3. **Arji, I.** and Arzani, K. 2004. Effect of water stress on some biochemical changes in leaf of five olive (*Olea europaea* L.) cultivars. 5th International symposium on olive growing 25-30 September Izmir, Turkey.
4. Gholami, R., Arzani, K. and **Arji, I.** 2004. Effect of different irrigation amount on vegetative growth of young potted olive cv. Manzanilo. 5th International symposium on olive growing 25-30 September Izmir, Turkey.
5. Gholami, R., Arzani, K. and **Arji, I.** 2004. Effect of paclobutrazol (PBZ) on vegetative growth and performance of young potted olive plants cv. Manzalino. 5th International symposium on olive growing 25-30 September Izmir, Turkey.
6. **Arji, I.** and Arzani, K. 2004. The influence of water deficit on vegetative growth and physiological characteristics of five olive cultivars. 5th international symposium on olive growing 25-30 September Izmir, Turkey.
7. Hajiamiri, A. and **Arji, I.** 2004. Preliminary studies of adaptation ability of different olive (*Olea europaea* L.) cultivars under environmental condition of

- Kermanshah province. 5th International symposium on olive growing 25-30 September Izmir, Turkey.
8. **Arji, I.**, Arzani, K. and Sasani, S. 2005. The influence of water deficit on pigment and chlorophyll florescence of olive. XVII Int. Botanical Congress, 17 July, Viena, Austria.
 9. **Arji, I.**, Zeinanloo, A.A. and Najafi, M. 2011. Evaluation on adaptability, vegetative and reproductive characteristics of some olive cultivars under Sarpole Zehab environmental condition. Olivebioteq. Ceret 31th October to 4th November.
 10. Cheghamirza, K., Lotfi, H. and **Arji, I.** 2011. Morphological and molecular analyses for the characterisation of Iranian olive (*Olea europaea* L.) in Kermanshah province. 59th International Congress on Medicinal plants and natural resources. Turkey, Antalya 4-9th September.
 11. Hatami, R., Kafilzadeh, F. and **Arji, I.** 2012. Kinetics of gas production of leaves from native and imported olive trees. International Food, Agriculture and Gastronomy Congress. Belek, Antalya, Turkey, February, 15-19.
 12. Mahmodi, N., Cheghamirza, K., **Arji, I.** and Bashiri, H. 2014. Study of relationships of morphological traits with AFLP markers in pear (*Pyrus SSP*). The first International and 13th Iranian Genetic Congress. Tehran, Iran, 24-26th May.
 13. Arji, I. and Norizadeh, M. 2017. Primary compatibility study of Greek olive varieties in Tarom environmental conditions of Zanjan Provinces. The first International Iranian Horticultural Congress. 4-7 Sept. Tarbiat Modares University, Tehran, Iran.
 14. Arji, I., Ahmadipour, S., Ebadi, A. and Abdosi, V. 2017. Biochemical changes of some olive (*Olea europaea* L.) cultivars under water stress. The first International Iranian Horticultural Congress. 4-7 Sept. Tarbiat Modares University, Tehran, Iran.

PAPERS PRESENTED IN THE NATIONAL CONFERENCES

1. **Arji, I.** and Arzani, K. 1999. Evaluation on the effect of different irrigation regimes on vegetative growth of two Iranian olive cultivars. Third Olive National Conferences Karaj, Iran, Abstract, P:1-2.
2. **Arji, I.**, Arzani, K. and Ebrahimzadeh, H. 2003. Evaluation on some growth responses of five olive cultivars to drought stress. Third Iranian Horticultural Congress. Karaj, Iran, 31th Aug- 2 Oct.
3. **Arji, I.**, Arzani, K. and Ebrahimzadeh, H. 2003. Effect of drought stress on water relation of five olive cultivars. Third Iranian Horticultural Congress. Karaj, Iran, 31th Aug- 2 Oct.
4. Yazdani, N., Arzani, K. and **Arji, I.** 2007. Drought stress adjusting of two olive cultivars cv Mission and Baladi by application of paclobotrazol. Third Iranian Horticultural Congress. Karaj, Iran, 31th Aug- 2 Oct.
5. **Arji, I.**, Zeinanloo, A. A., and Hajiamiri, A. 2005. Evaluation on Different Olive Cultivars Responses to Sarpole Zehab Environmental Condition. Fourth Iranian Horticultural Congress. Mashhad, Iran, 7-10 November.

6. **Arji, I.**, Zeinanloo, A. A., and Hajiamiri, A. 2005. Evaluation on Different Olive Cultivars adaptability to Sarpole Zehab Environmental Condition. First Olive Conference and Festival. Kermanshah, Iran, 27-28th Nov.
7. Hajiamiri, A., **Arji, I.** and Bagheri, E. 2005. Evaluation on adoption ability of Different Olive Cultivars Sarpole Zehab Environmental Condition. Forth Iranian Horticultural Congress. Mashhad, Iran, 7-10 November.
8. Hajiamiri, A., **Arji, I.** and Bagheri, E. 2005. Evaluation on adoption ability of Different Olive Cultivars Sarpole Zehab Environmental Condition. First Olive Conference and Festival. Kermanshah, Iran, 27-28th Nov.
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3. Evaluation of some olive cultivars and promising genotypes in different regions of country (First Phase) 2007- 2012 (National Research Project leader). Kermanshah Agricultural and Natural Resources Research and Education Center, AREEO, Kermanshah, Iran
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7. Identification, Collection and evaluation of better local plum and prune genotypes to select suitable cultivars 2012- 2015. Kermanshah Agricultural and Natural Resources Research and Education Center, AREEO, Kermanshah, Iran
8. Evaluation of selective almond cultivars on GF667 and seedling rootstocks in dry land conditions. 2011-2015. Kermanshah Agricultural and Natural Resources Research and Education Center, AREEO, Kermanshah, Iran
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13. Investigation of climatic factors on the development of fruit orchards in sloping lands. from 2023 – 2024.
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- 15.**Effect of nano, humic acid and chemical fertilizers on yield and yield component of grape cv. Yaghooti. 2020-2021.
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5. Investigation on grape and olive intercropping systems.
6. The effects of different irrigation regimes on olive cultivars.
7. Investigation of crown and root fungal rot of fruit trees in fruit orchards Kermanshah province
8. Investigating the possibility of controlling bacterial canker disease of stone fruit trees through chemical methods and pruning in Kermanshah province. 213-2015
9. the compatibility of some olive cultivars in Ilam province. 2014-2016.
10. Investigating the quantitative and qualitative characteristics of different peach cultivars on seed and vegetative bases. 2015-2020.
11. study the growing needs of figs in Fars, Kermanshah, Lorestan and Kerman provinces. 2016-2018.
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13. Investigating the effect of kaolin solution spraying on vegetative and reproductive characteristics of some olive cultivars in Kermanshah province. with the approved code 96101-33-55-2 for 3.5 years from April 2017-2021.
14. study the compatibility of a number of early and mid-ripe peach cultivars in warm and temperate regions of Kermanshah province. with the approved code 960714-056-33-55-2 for three years from 2017-2019.
15. Organizing the work collections of Horticultural Science Research Institute. 018-33-87-04-980137 . 2019.
16. Compatibility of some olive cultivars in Ilam province. 92228-03-39-4 from 2013-2015.
17. The effects of different levels of licorice root extract in the diet of broilers.

SUPERVISED MSC and Ph.D. STUDENTS

1. Banafshe Hasani, MSc, 2006. Effects of water deficit on quantity and quality of Golden Delicious apple. Science and Research Branch, Islamic Azad University, Tehran, Iran.
2. Samira Ahmadi pour, MSc, 2008. Evaluation of qualitative and quantitative of Zard olive cultivar fruit in Kermanshah olive orchards. Islamic Azad University, Karaj, Iran.
3. Farideh Sheikhmoradi, MSc, 2009. Evaluation on the effect of superabsorbent on qualitative of lawn and water use amount. Science and Research Branch, Islamic Azad University, Tehran, Iran.
4. Saeideh Miri, MSc, 2009. Determination of the best time of potato planting in Ghasre Shirin region. Science and Research Branch, Islamic Azad University, Tehran, Iran.

5. Seyamak Mahnam, MSc, 2010. Determination of the best pruning severity, citric acid and deficit irrigation on qualitative and quantitative yield of Yaghoti grape. Islamic Azad University, Karaj, Iran.
6. Farahnaz Bahmanipour, MSc, 2010. Adaptation ability of olive cultivars in Shirepanah region of Ilam province. Science and Research Branch, Islamic Azad University, Tehran, Iran.
7. Nariman Rashidi, MSc, 2011. Study on the Effect of Organic Manures and Super Absorbent on Yield and Quality of Potato (*Solanum tuberosum*) var. marfona. Islamic Azad University, Karaj, Iran.
8. Kaveh Torabi, MSc, 2011. Evaluation on Adaptation Ability and Determination of the Best Planting Pattern of Three Pea Varieties in Sarpolzahab Climate. Islamic Azad University, Karaj, Iran.
9. Mansour Safari, MSc, 2012. Evaluation of the effect of some Organic Manures, chemical Fertilizers and Super Absorbent on Yield and Quality of Olive (*Olea europea* L.) cv. Zard in Rrihav climatic conditions of Kermanshah province. Islamic Azad University, Karaj, Iran.
10. Asgar Pourshogh, MSc, 2012. Evaluation of the effect of some Organic Manures, chemical Fertilizers and Super Absorbent on Yield and Quality of Fig (*Ficus carica* L.) cv. Mojifi in Rrijav climatic conditions of Kermanshah province. Islamic Azad University, Karaj, Iran.
11. Faridoon rezaei, M.Sc, 2012. Effect of Vermicompost and Water Stress on Growth Characteristic and Yield in Kermanshah Environmental Conditions. Islamic Azad University, Karaj, Iran.
12. Khayrollah Ghamari, MSc, 2012. Stability analysis of fruit and oil yield of some olive varieties in semi arid environmental condition of Kermanshah province. Islamic Azad University, Kermanshah, Iran.
13. Omid Ali Amjadyan, MSc, 2013. The effect of different amounts of vermicompost and planting dates on yield quantity and quality of Fenugreek. Islamic Azad University, Karaj, Iran.
14. Kyomars Abbasi, MSc, 2013. Morphological Identification and Evaluation of Fig cultivars in Kermanshah Province. Science and Research Branch, Islamic Azad University, Tehran, Iran.
15. Maryam rostami, M.Sc, 2013. Comparison of acid scarification, stratification and endocarp removal on seed germination of three olive cultivars. Islamic Azad University, Karaj, Iran.
16. Rahman Fayz, MSc, 2013. Effect of pruning severity and charges on quantitative and qualitative traits of grapevine c.v. perlette. Islamic Azad University, Karaj, Iran.
17. Maryam mohammdi, M.Sc, 2014. Study of effect different media and growth regulators on shoot regeneration of GF677 rootstock. Kourdestan University, Sanandaj, Iran.
18. Vahid mikaeili, MSc, 2014. Phonological Evaluation of Yaghooti Grape in Warm and Semi- Warm Different Regions of Kermanshah Province. Islamic Azad University, Karaj, Iran.
19. Masoud Azizi, MSc, 2014. Investigation on the effect of different organic manure and chemical fertilizer on Yield quantity and quality of Yaghooti grape in Kermanshah province. Science and Research Branch, Islamic Azad University, Tehran, Iran.
20. Salameh Karimpour, MSc, 2014. Effect of humic acid, nano and chemical fertilizer on quantity and quality traits of Yaghooti grape in Kermanshah

- province. Science and Research Branch, Islamic Azad University, Tehran, Iran.
21. Tahmores Karami. 2014. Investigation of the effect of substrate type and micronutrient fertilizers of iron and zinc on the quality and quantity of aloe vera (*Aloe vera* L.). Kermanshah Jahad Higher Education Institution.
 22. Mansoureh Rahimi. 2014. Effect of Eucalyptus essential oil and gelatin on the shelf life of flowering branch *Rosa hybrida* cv. Polar star. Kermanshah Jahad Higher Education Institution
 23. Leila Farzaei. 2014. Investigating some of the consequences of agro-physiological, phyto-chemical and functional nutrition with nano-biological, chemical and vermicompost fertilizers on peppermint herb. Kermanshah Jahad Higher Education Institution
 24. Masomeh Jalilian. 2014. Effect of vermicompost and density on yield, flavonoids, carotenoids and anthocyanin in flower (*Calendula officinalis* L.). Kermanshah Jahad Higher Education Institution.
 25. Fatemeh Mohammadi. 2014. Investigating the effect of chemical and biological fertilizers on vegetative and vegetative properties of medicinal plant Basil (*Ocimum basilicum* L.). Kermanshah Jahad Higher Education Institution
 26. Manucher Hayrani. 2015. Morphological identification and evaluation of pomegranate cultivars and genotypes in Kermanshah Province. Islamic Azad University, Karaj, Iran.
 27. Sahba Chelopaz. 2015. Study of vermicompost levels and nano-bio-fertilizer on quantitative and qualitative traits of medicinal pumpkin in Kermanshah Kermanshah Jahad Higher Education Institution.
 28. Saman Ghalandari. 2016. Effect of different concentrations of rosemary essential oil and lavender on the shelf life of Gerbera. Kermanshah Jahad Higher Education Institution.
 29. Madineh Sayedi. 2016. Effect of Pune and Calcium Chloride Essences on the Shelf Life of Rose Bran (cv. crunus). Kermanshah Jahad Higher Education Institution.
 30. Leila Alizadeh. 2016. Evaluation of yield and morphological and phenological characteristics of ten Rose (*Rose damascene* Mill) accessions in rainfed conditions of Khorramabad. Kermanshah Jahad Higher Education Institution.
 31. Kawsar Farhadi Sadr. 2017. Study of the Effect of planting time and plant density on quantitative performance and essential oil content of German chamomile (*Matricaria recutita* L.) in northern Khuzestan. Kermanshah Jahad Higher Education Institution.
 32. Tayebbeh Ghorbani. 2017. Study of gene expression of some steviol glycosides pathway under different carbohydrate sources in in-vitro conditions in Stevia (*Stevia rebaudiana* Bertoni). Razi University.
 33. Majid Zohouri. 2019. Evaluation of resistance to drought stress and the structures tolerating this stress in pear rootstocks. PhD student of Islamic Azad University, Science and Research Branch, Tehran.
 34. Mojtaba Bani Bayat. 2018. Investigating the effect of enriched zoo-organics and reduced irrigation on the growth and performance of rose (*Rosa damascena* mill). Kermanshah Jahad Higher Education Institution.
 35. Mahmoud Mohammadi 2018. Investigating the effect of zoo-organic sulfur and low irrigation on the growth and yield of *Rosa damascena* mill. Kermanshah Jahad Higher Education Institution

36. Bahram Bahrami Soleimanieh. 2018. Investigating the effect of zooorganic nitrogen and low irrigation on the growth and yield of rose (*Rosa damascena* mill). Kermanshah Jahad Higher Education Institution.
37. Samira Ahmadipour. 2018. The effect of low irrigation on some morphological, physiological and biochemical characteristics of some olive cultivars. PhD student of Islamic Azad University, Science and Research Branch, Tehran.
38. Omid Ali Amjadian. 2017. Extraction, identification and chemical analysis of native species of almonds in Kermanshah province. PhD student of Islamic Azad University, Arak branch.
39. Pari chavoshani. 2022. Effect of potassium nanochlate on morphological characteristics and yield of *strawberries* under water stress. Razi University.
40. Sajad Mahmoodi momtaz. 2024. Zoning of climate parameters effective in choosing the location of rainfed grape orchards in Kermanshah province. Razi University.

Adviser of MSC and Ph.D. STUDENTS

- 1- Navid Yazdani 2003. Studying the effect of adjusting drought stress by paclobutrazol on olives of Blidi and Mishn varieties. Master's Thesis, Department of Horticulture, Faculty of Agriculture, Tarbiat Modares University
- 2- Ismaili, Akbar. 2007. Identification of superior genotypes of olive (*Olea europea* L) indigenous to Ilam province using morphological and phenological indicators. Faculty of Agriculture, Bou Ali Sina University,
- 3- Fakhruddin Ghasemi. 2008. Investigating T-tape and furrow irrigation methods in terms of performance and efficiency of water consumption in potato cultivation in the east of Kermanshah province. Faculty of Agriculture, Razi University.
- 4- Maryam Javadi Baiki. 2008. Investigating T-tape and furrow irrigation methods in terms of performance and water consumption efficiency in sugar beet cultivation in the east of Kermanshah province. Faculty of Agriculture, Razi University.
- 5- Parandin, Mohammad Amin 2009. Investigating T-tape and furrow irrigation methods in terms of performance and efficiency of water consumption in corn cultivation. Master's Thesis, Faculty of Agriculture, Razi University.
- 6- Hamid Lotfi . 2008 Investigating the genetic diversity of Iranian olive genotypes in Kermanshah province using molecular markers. Master's Thesis, Faculty of Agriculture, Razi University.
- 7- Tayyaba Ghorbani 2010. Investigating the genetic diversity of western Iranian pomegranates using molecular markers. Master's thesis of Razi University of Kermanshah, Faculty of Agriculture.
- 8- Seyyed Mohsen Gholamian. 2010. Evaluation of the effect of shallow water level and salinity on the contribution to evaporation and transpiration and the performance of safflower crop in field conditions using lysimeter. Master's thesis of Razi University of Kermanshah, Faculty of Agriculture.
- 9- Leila Jalili, 2011. Investigating the effect of Kermanshah treated wastewater on the accumulation of heavy metals and the nutritional value of basil and radish under lysimeter conditions. Master's thesis of Razi University of Kermanshah, Faculty of Agriculture.

- 10- Jamal Khajovi 2012. Investigating the phenomenon of frost and its relationship with the performance of garden crops in Kermanshah province (walnuts and almonds). Master's thesis of Tarbiat Moalem Sabzevar University.
- 11- Leila Hatami 2012. Chemical composition, digestibility and kinetics of leaf gas production of different olive cultivars. Master's degree student of Razi University of Kermanshah, Faculty of Agriculture.
- 12- Fateme Musa Beigi. 2013. Estimation of water requirement and plant factor of peppermint and lemongrass using a drained lysimeter. Master's student in Irrigation, Drainage, Faculty of Agriculture, Razi University, Kermanshah.
- 13- Amirkhani Daud. 2013. Comparison of different methods of estimating evaporation and transpiration with lysimeter results under planting grass and two types of vegetable crops, watercress and basil, and extracting the relevant coefficients in a semi-arid climate. Master's student in Irrigation, Drainage, Faculty of Agriculture, Razi University, Kermanshah.
- 14- Hoda Bashiri. 2011. Investigating the genetic diversity of pears in western Iran using morphological markers and DNA. Master's degree student of Razi University of Kermanshah, Faculty of Agriculture.
- 15- Noushin Mahmoudi. 2011. Investigating the genetic diversity of pears in western Iran using molecular markers. Master's degree student of Razi University of Kermanshah, Faculty of Agriculture.
- 16- Sumiya Mohammadyar. 2015. Studying the role of human resource training in improving the performance of thyme *Thymus vulgaris* medicinal plants, Islamabad West. Bakhtar Ilam Institute of Higher Education.
- 17- Rahmatollah Gholami. 2016. The effect of low irrigation on some physiological, biochemical, morphological and performance characteristics of six commercial olive cultivars. Doctoral student of Bo Ali Sina University, Faculty of Agriculture, Hamedan.
- 18- Sanaz Fatahi 2016. Evaluation of genetic diversity of wild figs of western Iran using morphological characteristics and molecular markers. Master's degree student of Razi University of Kermanshah, Faculty of Agriculture.
- 19- Elham Ahmadi. 2018. Shoot regeneration of two wild almond species, *Amygdalus lycioides* and *Amygdalus scoparia*. . Kermanshah University Jihad Institute of Higher Education
- 20- Muslim Abbasi. 2018. The effect of plant growth regulators on shoot regeneration of two wild almond species, *Amygdalus communis* and *Amygdalus orientalis*. Kermanshah University Jihad Institute of Higher Education.
- 21- Mehtab **Zonouri** . 2018. The effect of pruning intensity on the quantity and quality of fruit and the content of phenolic compounds of *Vitis vinifera* L. Sahibi and white seedless cultivars. Doctoral student of the Faculty of Agriculture, PhD student of University of Gilan.
- 22- Khatereh Kahrari, 2023. Development of a suitable tissue culture method of Maxma 60 and SL 64 cherry rootstocks. Razi University.