

Curriculum Vitae

Kazem Arzani (PhD.)

Professor of Pomology

Department of Horticultural Science

Tarbiat Modares University (TMU)

P.O.Box: 14115-336, Tehran, IRAN

Tel: +98 (21) 48292094 Fax: 48292200

E-mail: arzani_k@modares.ac.ir

Alternative E-mail: kazem.arzani@gmail.com



EDUCATION

1. **PhD:** Horticulture (Pomology & Fruit Trees Physiology), Massey University, New Zealand, 1994
PhD thesis: *Horticultural and physiological aspects of vigor control in apricot (Prunus armeniaca L.) under orchard and controlled environment conditions*
<http://hdl.handle.net/10179/4059>
2. **MSc:** Horticulture (Pomology & Fruit Trees Breeding), University of Tehran, Iran, 1989
MSc thesis: *Compatibility and incompatibility studies of some sweet cherry cultivars in fertilization and fruit set of sweet cherry cv. 'Siah Mashad'*
3. **BSc:** Horticulture (Pomology), University of Tehran, Iran, 1979
BSc Project: *Evaluation of orchard floor management, weeds identification, and control in the selected Fars province orchards*

ACADEMIC RANKS:

1. Sabbatical leave, Department of Horticulture, Cornell University, Ithaca, New York, 2012-2013 Academic year.
2. Professor, Tarbiat Modares University (TMU), 2009 to present.
3. Associate Prof. Tarbiat Modares University (TMU), 2004-2009.
4. Assistant Prof. Tarbiat Modares University (TMU), 1995-2004.
5. Horticulture instructor, Tarbiat Modares University (TMU), 1989-1990.
6. Horticulture instructor at the Centre for Agricultural Education, Karaj, 1986-1989.

COURSES TAUGHT

1. Physiology of rootstocks for fruit trees; Physiology of flowering; Fruit growth and development; Physiology of growth and productivity (PhD Graduate)
2. Fruit trees Physiology; Plant Growth Regulators; Fruit trees breeding (MSc Graduate)
3. Pomology (BSc Undergraduate)

SUPERVISED MSC & PH.D. STUDENTS

More than sixty (60) MSc and 30 PhD students were supervised. More details appeared in Persian in the following link: https://pro.modares.ac.ir/~arzani_k

HONORS AND AWARDS

1. Distinguished TMU Professor Award in 2001 and 2007.
2. Distinguished TMU Head of Departments Selection Award in 2002.
3. Distinguished TMU Researcher Selection Award in 2002, 2003, 2004, 2009, 2013, and 2017.
4. Evaluated and Awarded the Excellent Professional Consultant Degree in Horticulture by the Agriculture and Natural Resources Engineering Disciplinary Organization (NREDO) of Iran
5. Received "The Senior Scientist Award" in *The III World Biodiversity Congress (WBC2015), October 20-29, Mecavnik – Mokra Gora, Serbia*
6. Received, ISHS Medal Award from The International Society for Horticultural Science (ISHS), in Recognition of Meritorious Service to the Society as Convener of the I International Conference & X National Horticultural Science Congress of Iran (IrHC2017), 4-7 September 2017, Tehran, Iran.

RESEARCH VIEWPOINTS & KEYNOTE SPEECH

1. **Arzani, K.** 1996. The role of root, ABA and CK interaction on growth control of fruit trees grown under dry conditions. A paper presented in the 1st Iranian Horticultural Science Congress. 14-17 September 1996, Karaj, Iran.
2. **Arzani, K.** 1998. Viewpoint on the Horticultural research structure and strategy of Iran. A Keynote speech at the First National Almond Conference of Iran. Shahrekord University.
This presentation mainly focused on the suggestion for the establishment of "The Horticultural Science Research Institute (HSRI)" in Iran. The full paper is published as the following citation:
Arzani, K. 2001. An Overview of Organization, Structure, and Strategy of Iranian Horticultural Research. A Keynote speech at the First National Almond Conference of Iran. August 24 – 27, 1999, Shahrekord University: Published in the Proceedings of the Conference, pages 1-27 (In Persian). DOI: [10.13140/2.1.2679.5846](https://doi.org/10.13140/2.1.2679.5846)
3. **Arzani, K.** 2003. A perspective on the importance of preservation, maintenance, improvement, and management of Iranian traditional orchards. A Keynote speech at the *1st National Iranian Traditional Orchards Conference*, 3rd of June, 2003. Qazvin, Iran. Pub. In the Conference Proceedings. Pp 1-5 (In Persian).
4. **Arzani, K.** 2011. The position and an overview of the Iran olive industry and orchards. A Persian Interview: In the *National Olive Conference of Iran*. January 11 – 13, 2011, Tehran, Iran: Published in the Proceedings of the Conference, pages 19 -23 (In Persian).
5. **Arzani, K.** 2013. New research in Horticultural Science. A Keynote Speech in the 8th Iranian Horticultural Science Congress, 26th. August, Hamadan University, Iran.
6. **Arzani, K.** 2013. Effective and new research based on the position of Iranian Horticultural Science. *Baghdar Magazine*, 75: 3-6 (In Farsi).

7. **Arzani, K.** 2016. A Persian Interview: The First International Conference and 10th National Horticultural Science Congress of Iran (IrHC2017). Baghdar Magazine, 108: 50-57 (In Farsi).
8. **Arzani, K.** 2019. Horticulture, Research, Education and Development -A Persian Interview. Charbagh, A Quarterly Scientific Magazine, 1 (2):14-17 (In Farsi).
9. **Arzani, K.** 2020. The Role of Teaching and Research on Horticultural Science Industry Development of Iran with the Emphasis on the Temperate Fruit Crops. Keynote Speech presented at the "Temperate Fruit Research Centre Annual Meeting" at Horticultural Science Research Institute of Iran (HSRI), on January 21, 2020, in Karaj, Iran.
10. **Arzani, K.** 2020. The Role of Teaching and Research on Horticultural Science Industry Development of Iran with the Emphasis on the MSRT Leadership on Planning and Development of Higher Education. Keynote Speech presented at Horticulture – Agronomy, Discussion Meeting, July 08, 2020, MSRT, Tehran, Iran.
11. **Arzani, K.** 2022. The Progress of the National Asian Pear (*Pyrus serotina* Rhed.) Project in Iran. Webinar Speech presented at the First Event of the Temperate Fruit Research Centre of HSRI with an emphasis on the pear culture and planting in Iran, Webinar 11 January 2022 at Talk Webinar System, AREEO, Ministry of Agriculture, Iran.
12. **Arzani, K.** 2025. The role of root and rootstock on the vegetative and reproductive growth of fruit trees grown under drought with water shortage conditions. *The National Environment Change Conference*, 1-2 December 2025, Agricultural Research, Education and Extension Organization (AREEO), Tehran, Iran (Note: The presentation date for this accepted paper has been postponed by the conference organizers to a future new date <https://ccsamr.areeo.ac.ir>).

RESEARCH INTERESTS

1. Pomology (Fruit production and orchard management system)
2. Breeding (Germplasm identification, evaluation, preservation, controlled hybridization, and Pollen descriptive analysis using SEM)
3. Physiology (Water relations and plant hormone interactions, environmental stress, and carbon isotope discrimination)
4. The impact of preharvest culture and application on postharvest pome and stone fruit shelf life and physiology

RESEARCH EXPERIENCE

1. Study on the adaptation of some Asian pear (*Pyrus serotina* Rehd.) cultivars under Iran environmental conditions (National Research Project leader).
Phase 1:Arzani, K. 2008. Introduction, propagation, quarantine evaluation and the onset of some Asian pear cultivars (*Pyrus serotina* Rehd.) compatibility evaluation under Iran environmental conditions: Phase 1 introduction and propagation of germplasm. Final Report on the National Asian Pear Project at Tarbiat Modares University (TMU), Project No. 4225, with the support of the National Research Council of Iran (NRCI). 140 p.
Phase 2:Arzani, K. 2014. Introduction, propagation, quarantine evaluation, and the onset of some Asian pear cultivars (*Pyrus serotina* Rhed.) compatibility evaluation under Iran environmental conditions: Phase 2 Compatibility evaluations under a different set

of environmental conditions. Final Report on the National Asian Pear Project at Tarbiat Modares University (TMU), Project No. 84006, with the support of the National Science Foundation Organization (INSF ORG) of Iran.

2. Study on the compatibility and pollination aspects of commercial Iranian sweet cherry cultivars (National Research Project leader).
3. Controlled pollination and pollen analysis, germplasm evaluation, and identification and compatibility studies.
4. Plant hormone interactions, water relations, environmental stress, and carbon isotope discrimination.
5. Soilless culture and aeroponic system studies on young apricot trees under greenhouse and controlled environment conditions
6. Horticultural research planning based on a suitable strategy and structured systems.
7. Pre- and postharvest non-destructive fruit assessments concerning fruit maturity and storage disorders.

MEMBERSHIP OF SCIENTIFIC SOCIETIES

1. American Society for Horticultural Science, 1990-1993.
2. Iranian Society for Horticultural Science, 1996 to present.
3. International Society for Horticultural Science (ISHS), 1995 to present.
4. Agriculture and Natural Resources Engineering Disciplinary Organization of Tehran Province, 2002 to present.

PROFESSIONAL EXPERIENCE

1. Convener of "First International Conference and 10th National Horticultural Science Congress of Iran", 4-7 September 2017, TMU, Iran.
2. Iranian Society for Horticultural Science (IrSHS), Board member (Since 2014) and IrSHS Vice-president (Since 2016), and IrSHS President Since 2019.
3. Deputy Dean in Education, Faculty of Agriculture (TMU) from March 2010 to September 2012.
4. Head of Department of Horticultural Science at TMU, 1998-2006; 2009-2011; 2013-2016; 2016 to 2018.
5. Establishment of Pomology Lab in the Department of Horticultural Science at TMU
6. Head of Horticulture Research Department at Seed and Plant Improvement Institute (SPII) at Ministry of Agriculture, Iran, 1998-2001.
7. Member of the National Agricultural Research Projects Advisory Committee
8. Head of Agriculture Office and Centres for Agricultural Services and Extension in Eghlid city (Fars province, Shiraz) 1983-1986.
9. Head of the Department of Agriculture and Fruit Culture Division, Bonyad of Fars province (Shiraz), 1982-1983.
10. Head of Agricultural Service Dept., Agriculture, Fars province (Shiraz) 1980-1983

COMMITTEE MEMBER

1. Member of MSc and PhD thesis Examination Committee at the Faculty of Agriculture, TMU, and for many graduated PhD students at the Department of Horticulture,

- University of Tehran, University of Tabriz, and IAU, Iran.
2. Member of PhD. Comprehensive Examination Committee at the Faculty of Agriculture, TMU, and some of the students at Shiraz University.
 3. Education Committee member at the Faculty of Agriculture and TMU 2011-2012.
 4. Scientific committee member and session chair in many regional and national Horticultural Symposiums, conferences, and Congresses from 1995 to the present.
 5. Session Chair in the International Conference & Exhibition on Soilless Culture (ICESC 2010), Singapore.
 6. Member of the Safety Committee at the Faculty of Agriculture and TMU.
 7. Member of the Research Committee at the Faculty of Agriculture, TMU.
 8. Member of the Research and Technical Committee at Certification of Seed and Plant Institute, Ministry of Agriculture, Iran.
 9. Executive Scientific Committee member of the first national Iranian olive conference.
 10. Scientific Committee member of the first National Almond Conference in Iran.
 11. Committee member of Temperate Zone Fruit Tree Culture in the Ministry of Agriculture, AERO division.
 12. Scientific Committee members of IrHC2017.
 13. Scientific Committee member of IHC2018 in Turkey.
 14. Member of the Fifth, Tarbiat Modares University Academic Promotion Board and also the Sixth, Agriculture Academic Promotion Board Committee.
 15. Member of the University of Agricultural Science and Natural Resources of Khuzestan (Ahvaz), Academic Promotion Board (From August 2017 to November 2021).
 16. Member of Tarbiat Modares University Publication Board (Since September 2018).
 17. Member of the Agriculture, Water and Natural Science Commission of the ATF Higher Board at the Ministry of Culture and Higher Education (MSRT)

REFeree OF SCIENTIFIC JOURNALS

The referee for more than 20 national and International Scientific Journals, such as J. Agr. Sci. Tech. (JAST), New Zealand. J. Crop Hort. Sci. (NZJCHS), HortScience, Journal of Plant Growth Regulation (JPGR), Food Chemistry, Crop Breeding Journal (CBJournal), Trees (Springer), International Journal of Fruit Science, Acta Scientia Plantarum, Horticulture Environment and Biotechnology, Industrial Crops and Products, Palynology, European Journal of Horticultural Science (eJHS). Postharvest Biology and Technology (PBT), Journal of Food Quality and Safety, Journal of Food Composition and Analysis, Scientific Reports, Molecules, Forests, Agronomy. More journal review lists appeared in the ORCID link at: <https://orcid.org/0000-0002-9434-2938>

Also, more details have appeared in Persian in the following link:

https://pro.modares.ac.ir/~arzani_k

Guest Editor in *Horticulturae* <https://www.mdpi.com/journal/horticulturae> for the *Special Issue: "Research on Physiological, Genetic and Phytochemical Characteristics of Horticulture Crops"*: https://www.mdpi.com/journal/horticulturae/special_issues/JM3YGW50M5

MEMBERS OF EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

1. Seed and Plants 1998 – 2009, then 2020 to present.
2. Pajouhesh VA Sazandegi 2008 – 2009.
3. Journal of Agricultural Sciences and Natural Resources, 2008 to 2013.
4. Iranian Journal of Horticultural Science, 2009 to 2023.
5. Seed and Plant Production Journal, 2009 to March 2020
6. Seed and Plant Improvement Journal, 2009 to March 2020
7. J. Agr. Sci. Tech. (JAST) 2012 to present.
8. Journal of the Iranian Seed Sciences and Technology, 2012 to 2020.
9. Journal of Crop Breeding, 2018 to present.
10. International Journal of Horticultural Science and Technology (IJHST) 2019 to present.

MEMBERS OF EDITORIAL BOARDS OF EXTENSION SCIENTIFIC JOURNALS

1. Baghdar Extension Journal (Monthly)
2. Journal of Agriculture and Natural Resources Engineering Disciplinary Organization

PUBLISHED BOOKS

1. Radnia, H. and **K. Arzani** 1989. Plant propagation in horticulture. *Pub. By Agricultural Education Publisher*, Ministry of Agriculture, Karaj, Iran. (Video film 83 minutes).
2. **Arzani, K.** and A. Imani 1998. The importance of orchard establishment and factors affecting the fruit industry. *Pub. By Agricultural Education Publisher*, Ministry of Agriculture, Karaj, Iran.
3. **Arzani, K.** 1999, Fruitful fields. (Translated book). *Pub. By Agricultural Education Publisher*, Ministry of Agriculture, Karaj, Iran. 145pp.
4. **Arzani K.**, Ferdovsi Zadeh and Seyed Karimi 1999. Planting and swing skills (seven chapters). *Pub. By, Department of Agricultural Education*, Ministry of Education, Tehran, Iran. 160pp
5. **Arzani K.**, I. Arji and T. Javadi 2009. Pruning and training systems for modern olive growing (Translated book). *Pub. By Agricultural Education Publisher*, Ministry of Agriculture, Karaj, Iran, 232pp.
6. **Arzani K.** 2014. Fruit Trees Physiology and Breeding Programs Research Using Microscopic Technology. Chapter 39 Inbook: International Multidisciplinary Microscopy Congress: Springer Proceedings in Physics Volume 154. Editors: Efstathios K. Polychroniadis, Ahmet Yavuz Oral, Mehmet Ozer, *Pub. By Springer International Publishing Switzerland*, pp.275-281.
7. Khaleghi E. and **K. Arzani** 2016. Flowering and alternate bearing in olive and its control methods. *Pub. By Shahid Chamran University of Ahvaz*, Iran. 112 pp.
8. **Kazem Arzani**, Mahmoud Reza Roozban, Mahdi Ayyari Noushabadi, Mohsen Arzani, Masoumeh Karbasi, Saadat Sarikhani Khorami and Sedigheh Shokri 2017. Book of Abstracts. *The First International Horticultural Science Conference of Iran (IrHC2017). Published by the Secretariat Office of the First International and Xth. National Horticultural Science Congress of Iran (IrHC2017)*, Tarbiat Modares University, Tehran, Iran. 291 pages.

9. **Kazem Arzani**, Mahmoud Reza Roozban, Mahdi Ayyari Noushabadi and Saadat Sarikhani Khorami 2017. Book of Abstracts. *Xth., National Horticultural Science Congress of Iran (IrHC2017)*. Published by Golazin Publisher, Tehran, Iran. 691 pages.
10. Mousavi M., Mousavi A., Habashi AA., **Arzani K.**, Dehsara B. and Braieh M. 2017. Genetic transformation of date palm via microprojectile bombardment. In: Jameel M. Al-Khayri, S. Mohan Jain, Dennis V. Johnson (eds.) *Date Palm Biotechnology Protocols Volume I: Tissue Culture Applications*. Book **Series**: Methods in Molecular Biology. Volume 1637; Print ISBN: 978-1-4939-7155-8; pp. 269-280
DOI: https://10.1007/978-1-4939-7156-5_22
11. Wang Y. and Arzani K. (2019). European Pear In Sergio Tonetto de Feritas and Sunil Pareek (eds.) *Postharvest Physiological Disorders in Fruits and Vegetables*. 1st Edition. CRC Press, Taylor & Francis Group, London, United Kingdom & New York, USA, pp. 305-328.
12. Arzani K. (2019). Asian Pear In Sergio Tonetto de Feritas and Sunil Pareek (eds.) *Postharvest Physiological Disorders in Fruits and Vegetables*. 1st Edition. CRC Press, Taylor & Francis Group, London, United Kingdom & New York, USA, pp. 329-345.
13. Arzani, K. and Funnell, K. (2021). *Acta Horticulturae* No. 1315. Published by International Society for Horticultural Science (ISHS), PO BOX 500, 3001 Leuven 1. Belgium, 691 pages. <https://www.actahort.org/books/1315/>

PUBLISHED INTERNATIONAL JOURNAL ARTICLES (PEER REVIEWED)

- 1- Javady, T. and **K. Arzani** 2001 Pollen morphology of five Iranian olive (*Olea europaea* L.) cultivars. *J. Agr. Sci. Tech. (JAST)* Vol 3: 341-346.
- 2- Javanshah A., P. Cappellini and **K. Arzani** 2002. LA DIFFERENZIAZIONE DELLE GEMME A FIORE NEL PISTACCHIO CV OHADY. *Italus Hortus* 9(2): 26-29.
- 3- **Arzani, K.** and H.R. Roosta. 2004. Effects of paclobutrazol on vegetative and reproductive growth and leaf mineral content of mature apricot (*Prunus armeniaca* L.) trees. *J. Agr. Sci. Tech. (JAST)* 6:43-56.
- 4- Hokmabadi, H., **K. Arzani** and P.F. Grierson 2005. Growth, chemical composition, and carbon isotope discrimination of pistachio (*Pistacia vera* L.) rootstock seedlings in response to salinity. *Australian Journal of Agricultural Research*. 56: 135-144.
- 5- **Arzani, K.** and M. Koushesh-Saba 2005. Enhancement of Sultana grape (*Vitis vinifera* L.) maturity by pre-veraison ethanol and methanol spray. *Indian Journal of Agricultural Science*. 75(10): 670-672.
- 6- **Arzani, K.**, F. Zare-Nahandi and E. Amiri 2005. Performance of flowering and fruit set of coconut (*Cocos nucifera* L.) palms under the Kish Island environmental conditions of Iran. *Indian Journal of Agricultural Science*. 75(11): 731-734.
- 7- **Arzani, K.**, M.A. Nejatian, and G. Karimzadeh. 2005. Apricot (*Prunus armeniaca*) pollen morphological characterization through scanning electron microscopy, using multivariate analysis. *New Zealand. J. Crop Hort. Sci.* 33:381-388.

- 8- Amiri M. E. and **Arzani** 2006. Mineral availability and growth of banana (*Musa acuminata* var. Dwarf Cavendish) explant under various relative matric potentials *in vitro*. *Journal of Food, Agriculture & Environment* Vol 4 (3&4): 84-88.
- 9- **Arzani, K.**, H. Mansouri-Ardakan, A. Vezvaei and M. R. Roozban. 2008. Morphological variation among Persian walnut (*Juglans regia*) genotypes from central Iran. *New Zealand. J. Crop Hort. Sci.* 36:159-168.
- 10- **Arzani, K.**, Khoshghalb, H., Malakouti, M.J. and Barzegar, M. 2008. Postharvest physicochemical changes and properties of Asian (*Pyrus serotina* Rehd.) & European (*Pyrus communis* L.) pear cultivars. *Hort. Environ. Biotechnol*, 49(4):244-252.
- 11- **Arzani, K.**, Khoshghalb, H., Malakouti, M.J. and Barzegar, M. 2009. Polyphenoloxidase Activity, Polyphenol and Ascorbic Acid Concentrations and Internal Browning in Asian Pear (*Pyrus serotina* Rehd.) Fruit During Storage in Relation to Time of Harvest. *Europ.J.Hort.Sci.*, 74 (2): 61–65.
- 12- Varasteh, F. and **K. Arzani** 2009. Classification of Some Iranian Pomegranate (*Punica granatum*) Cultivars by Pollen Morphology Using Scanning Electron Microscopy. *Hort. Environ. Biotechnol.* 50(1):24-30.
- 13- **Arzani K.**, F. Bahadori, and S. Piri 2009. Paclobutrazol Reduces Vegetative Growth and Enhances Flowering and Fruiting of Mature 'J.H. Hale' and 'Red Skin' Peach Trees. *Hort. Environ. Biotechnol.* 50(2):84-93.
- 14- **Arzani K.**, A. Sherafaty and M. Koushesh-Saba 2009. The Effects of Harvest Date and Post-Harvest Alkaline Treatment on Quantity and Quality of Green Raisin. *J. Agr. Sci. Tech. (JAST)* 11(4): 449-456.
- 15- Mousavi, M., A. Mousavi, A. A. Habashi and **K. Arzani** 2009. Optimization of Physical and Biological Parameters for Transient Expression of *uidA* Gene in Embryogenic Callus of Date palm (*Phoenix dactylifera* L.) via Particle Bombardment. *African Journal of Biotechnology* 8 (16):3721-3730.
- 16- Mortazavi, S. M. H., **K. Arzani** and A. Moieni 2010. Optimizing storage and *in vitro* germination of date palm (*Phoenix dactylifera*) pollen. *J. Agr. Sci. Tech. (JAST)* 12:181-189.
- 17- **Arzani, K.**, Yadollahi, A., Ebadi, A. and Wirthensohn, M. 2010. The relationship between bitterness and drought resistance of almonds (*Prunus dulcis* Mill.). *African Journal of Agricultural Research* 5(9): 861-866.
- 18- Alizadeh-Salteh, S., **K. Arzani**, R. Omidbeigi and N. Safaie 2010. Essential Oils Inhibit Mycelial Growth of *Rhizopus stolonifer*. *Europ.J.Hort.Sci.*, 75 (6): 278-282.
- 19- Yazdani, N., **K. Arzani**, Y. Mostofi and M. Shekarchi 2011. α -Farnesene and antioxidative enzyme systems in Asian pear (*Pyrus serotina* Rehd.) fruit. *Postharvest Biology and Technology* 59: 227-231.
- 20- **Arzani, K.**, Khoshghalb, H., Malakouti, M.J. and Barzegar, M. 2011. Total oxalate soluble pectin concentration in Asian pear (*Pyrus serotina* Rehd) fruit in relation to ripening, storage, and internal browning disorder. *J. Agr. Sci. Tech. (JAST)* 13:611-626.
- 21- Yadollahi, A., **Arzani, K.A.** Ebadi, M. Wirthensohn, S. Karimi, 2011. The response of different almond genotypes to moderate and severe water stress to screened for drought tolerance. *Scientia Horticulturae* 129:403–413.

- 22- Mostafa Ghasemi, **Kazem Arzani**, Abbas Yadollahi, Shiva Ghasemi, Saadat Sarikhani Khorrami, 2011. Estimate of Leaf Chlorophyll and Nitrogen Content in Asian Pear (*Pyrus serotina* Rehd.) by CCM-200. Not Sci Biol, 3(1):91-94.
- 23- Feryal Varasteh, **Kazem Arzani**, Mohsen Barzegar, Zabihollah Zamani, 2012. Changes in anthocyanins in arils of chitosan-coated pomegranate (*Punica granatum* L. cv. Rabbab-e-Neyriz) fruit during cold storage. Food Chemistry 130: 267–272.
- 24- Alizadeh-Salteh, S., **K. Arzani** and A. Imani 2012 Self-incompatibility studies of some Iranian late-blooming almonds and pollen source effect on some characteristics of Nuts. Journal of Nuts 3(2):37-44.
- 25- Mahmoud Koushesh-Saba, **Kazem Arzani** and Mohsen Barzegar, 2012. Postharvest polyamine application alleviates chilling injury and affects apricot storage ability. Journal of Agricultural and Food Chemistry 60, 8947–8953.
- 26- Akhlaghi Amiri, N., A. Asadi Kangarshahi and **K. Arzani**. 2012. Reducing citrus losses by spraying synthetic auxins. International Journal of Agriculture and Crop Sciences (IJACS) 4(22):1720-1724.
- 27- Ghasemi M., **K. Arzani**, and D. Hassani 2012. Identification and Evaluation of Walnut (*Juglans regia* L.) Genotypes in Arak, Iran. Crop Breeding Journal 2(2): 119-124.
- 28- Karimi S., A. Yadollahi, R. Nazari-Moghadam, A. Imani and **K. Arzani** 2012. *In vitro* Screening of Almond (*Prunus dulcis* (Mill.)) Genotypes for Drought Tolerance. J. BIOL. ENVIRON. SCI., 6(18), 263-270
- 29- Khaleghie, E., **K. Arzani**, N. Moallemi, M. Barzegar, 2012. Evaluation of Chlorophyll Content and Chlorophyll Fluorescence Parameters and Relationships between Chlorophyll a, b, and Chlorophyll Content Index under Water Stress in *Olea europaea* cv. 'Dezful'. World Academy of Science, Engineering and Technology 68:2112-2115
- 30- Asadi-Gharneh A., **K. Arzani** and A. Shojaeian 2012. Investigation on the yield and fruit quality of some cultivated strawberries in Iran. World Academy of Science Engineering and Technology 6(8): 41-43
- 31- **Arzani, K.**, M. Ghasemi, A. Yadollahi and H. Hokmabadi 2013. Study of foliar epidermal anatomy of four pistachio rootstocks under water stress. IDESIA (Chile) 31(1): 101-107
- 32- Fallahi, E., **K. Arzani** and B. Fallahi 2013. Long-term leaf mineral nutrition in 'Pacific Gala' apple (*Malus × domestica* Borkh.) as affected by rootstock type and irrigation system during six stages of tree development. Journal of Horticultural Science & Biotechnology 88 (6): 685–692.
- 33- Karimi S., A. Yadollahi, **K. Arzani** 2013. Responses of almond genotypes to osmotic stress induced *in vitro*. International Journal of Nuts and Related Sciences (IJNRS) 4(4): 1-7.
- 34- Karimi S., A. Yadollahi, **K. Arzani** and A. Imani 2013. Leaf Pigments Help Almond Explants Tolerate. World Academy of Science Engineering and Technology 7(5): 162-165
- 35- Nikzad Gharehaghaji A., **K. Arzani**, H. Abdollahi, A. Shojaeiyan, L. Dondini and P. D. Franceschi 2014. Genomic characterization of self-incompatibility ribonucleases in the Central Asian pear germplasm and introgression of new alleles from other

- species of the genus *Pyrus*. Tree Genetics & Genomes 10 (2): 411-428. DOI: 10.1007/s11295-013-0696-7
- 36- Mousavi Soraya, Mehdi Hosseini Mazinani, **Kazem Arzani**, Abbas Ydollahi, Saverio Pandolfi, Luciana Baldoni and Roberto Mariotti 2014. Molecular and morphological characterization of Golestan (Iran) olive ecotypes provides evidence for the presence of promising genotypes. Genetic Resources and Crop Evolution 61(4): 775-785 DOI 10.1007/s10722-013-0071-4
 - 37- Najafzadeh Roghayeh, **Kazem Arzani**, Naser Bouzari and Ali Saei 2014. Genetic Diversity Assessment and Identification of New Sour Cherry Genotypes Using Intersimple Sequence Repeat Markers. International Journal of Biodiversity Volume 2014, Article ID 308398, 8 pages <http://dx.doi.org/10.1155/2014/308398>
 - 38- Jafari Azam, **Kazem Arzani**, Esmaeil Fallahi and Mohsen Barzegar 2014. Optimizing Fruit Yield, Size, and Quality Attributes in 'Malase Torshe Saveh' Pomegranate through Hand Thinning. Journal of the American Pomological Society 68(2): 89-96.
 - 39- Alizadeh Salteh, S. and **K. Arzani** 2014. Xenia in Almonds: Pollen source effect on characteristics of some Iranian late-blooming almonds and their self-incompatibility. International Journal of Nuts and Related Sciences (IJNRS) 5(1): 49-54.
 - 40- Yazdani, N., **Arzani, K.**, Mostofi, Y. and Shekarchi, M. (2014). Antioxidative enzyme activity and internal browning of 1-methylcyclopropene-treated European pear fruits (cv. 'Shahmiveh' and 'Sebri'). International Journal of Food Science & Technology, 49(11):2514–2520. doi: 10.1111/ijfs.12579
 - 41- NajafzadehRoghayeh, **Kazem Arzani**, Naser Bouzari, Javad Hashemi 2014. Identification of new Iranian sour cherry genotypes with fruit main quality, antioxidants and enhanced functional properties. New Zealand. J. Crop Hort. Sci.42(4):1-13.DOI:10.1080/01140671.2014.918044
 - 42- NajafzadehRoghayeh, **Kazem Arzani** and Naser Bouzari 2014. Selection of promising sour cherry (*Prunus cerasus* L.) genotypes based on high growth properties, yield and quality. Indian Journal Sci. Res. 3(3): 364-378.
 - 43- DehghaniBehnam, **Kazem Arzani**, Daryoush Houshmand, Ali Asghar Zinanlo 2014. Fruit Characteristics of some Olive Cultivars grown under the South of Iran Environmental Conditions. *Adv. Environ. Biol.*, 8(24):267-274.
 - 44- Khaleghi E., **K. Arzani**, N. Moallemi, M. Barzegar, 2015. The efficacy of Kaolin particle film on oil quality indices of olive trees (*Olea europaea* L.) cv 'Zard' grown under the warm and semi-arid region of Iran. Food Chemistry166: 35–41. Doi:10.1016/j.foodchem.2014.06.006
 - 45- Karimi S., A. Yadollahi, **K. Arzani**, A. Imani and M. Aghaalikhani 2015. Gas-exchange response of almond genotypes to water stress. Photosynthetica53(1):29-34 Doi: 10.1007/s11099-015-0070-0
 - 46- Najafzadeh Roghayeh and **Kazem Arzani** 2015. Superior Growth Characteristics, Yield, and Fruit Quality in Promising European Pear (*Pyrus communis* L.) Chance Seedlings in Iran. *J. Agr. Sci. Tech. (JAST)* 17(2): 427-442.

- 47- Rahmati Mostafa, **Kazem Arzani**, Abbas Yadollahi and Hamid Abdollahi 2015. Influence of rootstock on vegetative growth and graft incompatibility in some pear (*PYRUS* SPP.) cultivars. *Indo-Am. J. Agric. & Vet. Sci.*,3(1): 25-32.
- 48- Najafzadeh Roghayeh, **Kazem Arzani**, Naser Bouzari and Ali Saei 2015. Characterization of promising sour cherries revealed by SDS-PAGE analysis. *Journal of Biology and Nature*, 3(2): 50-58.
<http://www.ikpress.org/abstract.php?iid=559&id=36&aid=4079#.VX8eK1JHaUQ>
- 49- Nouri Omid, **Kazem Arzani**, Aziz Moameni and Mehdi Taheri, 2015. Vegetative growth and fruit set of olive (*Olea europaea* L. cv. 'Zard') in response to some soil and plant factors. *Journal of Central European Agriculture* 16(3): 319-329. DOI: 10.5513/JCEA01/16.3.1627
- 50- Najafzadeh, R., **Arzani, K.**, Bouzari, N., Saei, A. 2016. Genetic variation and identification of promising sour cherries inferred from microsatellite markers. *Russian Journal of Genetics*(Genetika) 52(1):64-73. DOI: 10.7868/S0016675815110119
- 51- Mahmoud Koushesh-Saba, **Kazem Arzani** and Mohsen Barzegar, 2016. Impact of postharvest Calcium treatments on storage life, biochemical attributes and chilling injury of apricot. *J. Agr. Sci. Tech. (JAST)* 18(6): 1355-1366
- 52- Zivdar Shohreh, **Kazem Arzani**, Mohamad Kazem Souri, Norollah Moallemi and Seyed-Mansour Seyednejad 2016. Physiological and Biochemical Response of Olive(*Olea europaea* L.) Cultivars to Foliar Potassium Application.*J. Agr. Sci. Tech. (JAST)* 18(12): 1897-1908
- 53- **Arzani, K.** and E. Fallahi 2016. Iran Horticulture Potential: A Great Opportunity for Current and Future International Collaborations. *HortScience* 51(9): S131-S132 (Abstr.)
- 54- **Arzani, K.**, C.B. Watkins and F.N. Jacqueline 2016. I_{AD} values in Relation to Internal Ethylene Concentrations in 'Delicious' Apple Fruit Harvested from Trees Treated with Retain and Harvista. *HortScience* 51(9): S136 (Abstr.)
- 55- **Arzani, K.**, F.N. Jacqueline and C.B. Watkins 2016. Watercore Incidence in 'Red Delicious' Apple in Relation to I_{AD} values: Effect of Harvest Date, and Harvista and ReTain Applications. *HortScience* 51(9): S307 (Abstr.)
- 56- Mahmoud Koushesh-Saba, **Kazem Arzani**, and Mousa Rasouli 2017 Genetic Relationship of Iranian Pear Genotypes with European and Asian Pears as Revealed by Random Amplified Polymorphic DNA Markers. *International Journal of Fruit Science*17 (1): 82-92 Doi: [10.1080/15538362.2016.1220343](https://doi.org/10.1080/15538362.2016.1220343)
- 57- Varasteh Feryal, **Kazem Arzani**, Mohsen Barzegar and Zabihollah Zamani 2017. Pomegranate (*Punica granatum* L.) Fruit Storability Improvement Using Pre-storage Chitosan Coating Technique. *J. Agr. Sci. Tech. (JAST)* 19(2): 389-400
- 58- Mousavi S., Mariotti R., Bagnoli F., Costantini L., Cultrera N.G.M., **Arzani K.**, Pandolfi, S. Vendramin G.G., Torkzaban B., Hosseini-Mazinani M., Baldoni L., 2017. The eastern part of the Fertile Crescent concealed an unexpected route of olive (*Olea europaea* L.) differentiation. *Annals of Botany* Volume 119(8): 1305–1318,
<https://doi.org/10.1093/aob/mcx027>

- 59- Saeideh Alizadeh-Salteh, Nasrin Farhadi, **Kazem Arzani** and Hassan Khoshghalb 2018. Almond Oil Quality as Related to the Type of Pollen Source in Iranian Self-Incompatible Cultivars. *International Journal of Fruit Science* 18(1):29-36
<https://doi.org/10.1080/15538362.2017.1367983>
- 60- Saadat Sarikhani Khorami, **Kazem Arzani**, Ghasem Karimzadeh, Abdolali Shojaeiyan and Wilco Ligterink 2018. Genome Size: A Novel Predictor of Nut Weight and Nut Size of Walnut Trees. *HortScience* 53(3):275–282.
<https://doi.org/10.21273/HORTSCI12725-17>
- 61- Bahman Fattahi, **Kazem Arzani**, Mohammad Kazem Souri and Mohsen Barzegar (2019). Effects of Cadmium and Lead on Seed Germination, Morphological Traits, and Essential Oil Composition of Sweet Basil (*Ocimum basilicum* L.). *Industrial Crops and Products* 138: 111584
<https://doi.org/10.1016/j.indcrop.2019.111584>
- 62- Kavand M, Arzani K, Barzegar M, Mirlatifi M. (2020) Pomegranate (*Punica granatum* L.) Fruit Quality Attributes in Relation to Aril Browning Disorder. *J. Agr. Sci. Tech.(JAST)* 22 (4) :1053-1065
<http://journals.modares.ac.ir/article-23-27675-en.html>
- 63- Torahi A., **Arzani K** and Moalemi N. (2021) Impact of dust deposition on photosynthesis, gas exchange and yield of date palm (*Phoenix dactylifera* L.) cv. 'Sayer'. *J. Agr. Sci. Tech.(JAST)* 23 (3): 631-634
- 64- Kadkhodaei, S., **Arzani, K.**, Yadollahi, A., Karimzadeh, G. and Abdollahi, H. (2021). Genetic Diversity and Similarity of Asian and European Pears (*Pyrus* spp.) Revealed by Genome Size and Morphological Traits Prediction. *International Journal of Fruit Science* 21 (1): 619-633. DOI: 10.1080/15538362.2021.1908201
- 65- Bahman Fattahi, **Kazem Arzani**, Mohammad Kazem Souri and Mohsen Barzegar (2021). Morphological and phytochemical responses to cadmium and lead stress in coriander (*Coriandrum sativum* L.). *Industrial Crops and Products* 171(1) : 113979 ISSN 0926-6690,
<https://doi.org/10.1016/j.indcrop.2021.113979>
- 66- Ghasemi M., **K. Arzani**, A. Yadollahi, H. Hokmabadi, Majid Agha-Alikhani 2022. Response of Pistachio (*Pistacia vera* L.) Seedling Rootstocks to Salicylic Acid Foliar Application under Water Stress. *Journal of Nuts* 13(1): 41-56
- 67- Maleki Asayesh, Zeinab, **Kazem Arzani**, Ali Mokhtassi-Bidgoli and Hamid Abdollahi 2023. Enzymatic and non-enzymatic response of grafted and ungrafted young European pear (*Pyrus communis* L.) trees to drought stress. *Scientia Horticulturae* 310: 111745 <https://doi.org/10.1016/j.scienta.2022.111745>
- 68- Saadat Sarikhani, **Kazem Arzani**, Mahmoud Reza Roozban and Kourosh Vahdati 2023. Phenological and Pomological evaluation reveals high diversity among walnut populations in Southwestern Iran. *Journal of Nuts* 14(2): 129-140.
DOI: 10.22034/jon.2023.1980280.1215
- 69- Jalili S., **Arzani K.**, Prudencio A.S., Salazar J.A., Martinez-Garcia P.J., Bouzari N. and Martinez-Gomez P. (2023). Integrated Morphological, Physiological and Molecular Analysis of the Drought Response in Cultivated and Wild *Prunus* L. Subgenera *Cerasus* Species. *Plant Mol Biol Rep* 41:440-453. <https://doi.org/10.1007/s11105->

- 70- Rezaei, A., **K. Arzani** and S. Sarikhani 2023. The assessments of biochemical characteristics for the superior walnut (*Juglans regia* L.) genotypes. Eur. J. Hortic. Sci. 88(4) ISSN 1611-4426 print, 1611-4434 <https://doi.org/10.17660/eJHS.2023/025>
- 71- Maleki Asayesh, Zeinab, **Kazem Arzani**, Ali Mokhtassi-Bidgoli and Hamid Abdollahi 2023. Gas exchanges and physiological responses differ among 'Pyrodwarf' clonal and 'Dargazi' seedling pear (*Pyrus communis* L.) rootstocks in response to drought stress. *J Soil Sci Plant Nut* 23: 6469-6484 <https://doi.org/10.1007/s42729-023-01502-1>
- 72- Ebtadaei, M., **Arzani, K.** and Abdollahi, H., 2024. Unravelling the effects of melatonin on drought-stressed pear rootstocks: A comparative analysis of Dargazi and Pyrodwarf. *Plant Stress*, Volume 11, 100393 <https://doi.org/10.1016/j.stress.2024.100393>
- 73- Chatrabnous, Najme, **Kazem Arzani**, Saadat Sarikhani, Stefano Pavan 2024. Phenotypic and pomological diversity of selected native walnut (*Juglans regia*) populations: implications for breeding and cultivation programs. *Euphytica* Volume 220, article number 98: 1-14 <https://doi.org/10.1007/s10681-024-03358-7>
- 74- Maleki Asayesh, Zeinab, **Kazem Arzani**, Ali Mokhtassi-Bidgoli and Hamid Abdollahi 2025. Drought stress effects on the aerial part physiology and macronutrient uptake in pear (*Pyrus communis* L.) scion-rootstock combinations. *J. Agr. Sci. Tech. (JAST)* 27 (1): 157-177
- 75- Shafaei-Cherush, Z., **K. Arzani**, N. Ahmadi, A. Mokhtassi-Bidgoli, M. Ayyari, H. Abdollahi, (2025) Improving pear (*Pyrus* spp.) harvest maturity assessment: Integration of color composite indicators and sophisticated multivariate analysis techniques, *Journal of Agriculture and Food Research*, Volume 19, March 2025, 101596 <https://doi.org/10.1016/j.jafr.2024.101596>
- 76- Rezaei, A., **Arzani, K.**, Abdollahi, H., Mokhtassi-Bidgoli, A., and Ahmadi, N. 2025. Genotypic Differences in Morphological and Physiological Traits of Genus *Pyrus* and Clonal Pear Rootstocks under Prolonged Drought Stress. *Scientia Horticulturae* 350, August 2025, 114338 [https://authors.elsevier.com/sd/article/S0304-4238\(25\)00387-5](https://authors.elsevier.com/sd/article/S0304-4238(25)00387-5)
- 77- Kadkhodaei, Somayeh and **Kazem Arzani** 2025. Fruit biochemical and nutritional properties of some Asian and European pears (*Pyrus* spp.) grown under Tehran environmental conditions. *J. Agr. Sci. Tech. (JAST)* 27 (6): 1409-1423 DOI: [10.48311/jast.2025.16856](#)

PUBLISHED NATIONAL JOURNAL PEER-REVIEWED ARTICLES

1. **Arzani K.**, A. Khalighi, M. Mostafavy, A. Maniei and P. Vojdany. 1992. Selection of the best pollinizer for the sweet cherry cv. 'Siah Mashad'. *Journal of Agricultural Science* 23:57-65 (In Persian).
2. Seify, E. and **K. Arzani** 1998. The study of compatibility and incompatibility of some sweet cherry cultivars in fertilization and fruit set of sweet cherry cv. 'Siah Mashad'. *Seed and Plant* 14(4):30-37 (In Persian).
3. Masoomy, S.A. and **K. Arzani** 1998. Study of the pollination and determination of the

- best pollinizers for olive (*Olea europaea* L.) cv 'Local Roghani Roodbar'. Seed and Plant 14(4):20-29 (In Persian).
4. Javady, J. and **K. Arzani** 1999. Effect of storage period on *in-vitro* pollen germination of five Iranian native olives (*Olea europaea* L.) cultivars. Seed and Plant 15(4):313-322 (In Persian).
 5. Razavi, F., **K. Arzani** and A.Vezvaei 1999. Identification of local quince (*Cydonia oblonga* L.) genotypes in some parts of Isfahan province. Seed and Plant 15(4):354-374 (In Persian).
 6. Hokmabady, H., **K. Arzani** and Dehghani-Shouraki, Y. 2000 Effects of carbohydrates spraying on some quantitative and qualitative traits of pistachio nut (*Pistacia vera* L.) cv. 'Kalleh-Ghoochi'. Seed and Plant 16(1):66-76 (In Persian).
 7. **Arzani, K.** and I. Arji. 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).
 8. Motesharrezadeh, B., M.J. Malakouti and **K.Arzani** 2000. Increasing fruit set through foliar application of urea, zinc, and boron on some cherry cultivars (Part III). Soil and Water (Special issue in Horticulture) 12(8):117-125 (In Persian).
 9. Naderi, R. A. Khalighi, **K. Arzani** and M. Babalar, 2000. Effects of storage temperature, chemical treatment, harvesting stage and genotype on vase life of cut flowers of cyclamen (*Cyclamen persicum* Mill.). Seed and Plant 16(2):240-251 (In Persian).
 10. Javanshah, A., **K. Arzani**, Y. Dehghani-Shouraki and P. Cappellini. 2001 Induction of flowering delay in pistachio (*Pistacia vera* L.) for prevention of spring cold damage. Pajouhesh-va-Sazandegy 49(4):18-21 (In Persian).
 11. Javanshah, A., **K. Arzani**, Y. Dehghani-Shouraki and P. Cappellini 2001. Study of flowering in *Pistacia vera* L. cv. 'Ovhady'. Seed and Plant 16(4):432-445 (In Persian).
 12. **Arzani, K.** and N. Akhlaghi 2001. Size and quality of Satsuma Mandarin as affected by 2, 4-D and Naphthalene acetic acid (NAA). Seed and Plant 16(4):446-455 (In Persian).
 13. Ahmadi, N., **K. Arzani** and A. Moeini 2002. Study of pollen storage, germination and pollen tube growth in some citrus cultivars. Seed & Plant 17(4):216-229 (In Persian).
 14. Arji, I. **K., Arzani** and M. Mirlatifi 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).
 15. Akhlaghi A., **K. Arzani** and Y. Ebrahimi 2002. Application of synthetic auxin: a way of reducing citrus fruit loss. Iranian Journal of Horticultural Science and Technology 3(1&2):59-66 (In Persian).
 16. Roozban, M.R., **Arzani, K.** and Moieni, A. (2002). Study on *in vitro* propagation of some Asian pear (*Pyrus serotina* Rehd.) cultivars. Seed and Plant Journal, Vol. 18 (3): 318-361 (in Persian).
 17. Arji, I. and **K. Arzani** 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).
 18. Javadi, T., and **K. Arzani** 2003. Study on proline accumulation and water relations of nine Asian pear (*Pyrus serotina* Rehd) genotypes under different irrigation regimes. Journal of Agricultural Sciences and Natural Resources 10(3):87-98 (In Persian).
 19. Nejatian, M.A. and **K. Arzani** 2003. Estimation of apricot fruit volume and fresh

- weight from fruit diameter. Journal of Agricultural Sciences and Natural Resources 10(3):110-115 (In Persian).
20. Hokmabadi, H., **K. Arzani**, Y. Dehghani and B. Panahi 2004. Response of Badami-Zarand, Sarakhs, and Ghazvini pistachio rootstocks to sodium chloride and boron excess in irrigation water. Journal of Sciences and Technology of Agriculture and Natural Resources 7(4):11-24 (In Persian).
 21. Arji, I., **K. Arzani** and H. Ebrahizadeh 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).
 22. Bouzari, N., **K. Arzani** and H. Ebrahimzadeh 2003. Study on chilling requirement of local Iranian sweet cherry (*Prunus avium* L) cultivars. Iranian Journal of Horticultural Science and Technology 4(3):115-120 (In Persian).
 23. Nejatian, M.A. and **K. Arzani** 2003. Study on genetic diversity and visual and physiological characteristics, and flowering phenology of eleven local apricot cultivars of Iran. Scientific and Information Research Periodicals of Qazvin Jihad Agriculture, Iran (In Persian).
 24. Shojaeiyan, A., B. Gharayazi, **K. Arzani**, H. Rahimian and L.L.T.Pitra 2004. Genetic mapping of Iranian melon (*Cucumis melo* L) using RAPD markers. Seed and Plant 20(3):373-382.
 25. Javadi, T., **K. Arzani** and H. Ebrahizadeh 2004. Investigation of soluble sugars and proline content in nine Asian pear (*Pyrus serotina* Rehd.) genotypes under drought stress. Iranian Journal of Biology 17(4):369-387 (In Persian).
 26. Nejatian, M.A. and **K. Arzani** 2004. Self-incompatibility determination and effective pollination period (EPP) in four Iranian local apricot cultivars. Journal of Horticultural Science and Technology 5(3):147-156 (In Persian).
 27. Hokmabadi, H., **K. Arzani** and A. Grierson 2005. Effects of Salinity Stress on Growth Performance and Carbon Isotope Discrimination in Three Pistachio Rootstocks. Journal of Agricultural Sciences and Natural Resources 12(3):44-54 (In Persian).
 28. Alavi, A., E. Mohamadi Goltapeh, **K. Arzani** and E. Pourjam 2005. Study on the different sources of carbon and nitrogen on the vegetative growth of edible mushroom cv. 'Shah Sada'. Soil and Water 19(2):174-181 (In Persian).
 29. Bouzari, N., **K. Arzani** and H. Ebrahimzadeh 2006. Study on flower initiation and chilling requirement of sweet cherry (*Prunus avium* L) cultivars Siah-Daneshkadeh and Frosida. Iranian Journal of Agricultural Science 36(6):1499-1508 (in Persian).
 30. Mahmoudi, M. and **K. Arzani** 2006. The study of compatibility and incompatibility in some of the Sweet Cherry (*Prunus avium* L.) cultivars with the sweet cherry cv. "Shoaosaltaneh" using field and laboratory methods. Journal of Agriculture 8(1):37-57 (In Persian).
 31. Mortazavi, S.M.H., **K. Arzani** and M. Barzegar 2006. Effect of vacuum package and modified atmosphere on storage and fruit quality of date (*Phoenix dactylifera* L.) cv. Berhi. Journal of Scientific Agriculture 29(3):125-137 (in Persian).
 32. Asghari, H. and **K. Arzani** 2006. A Study on the compatibility and incompatibility of some sweet cherry (*Prunus avium* L.) cultivars with cv. 'Haj-Yosefy'. Journal of Sciences and Industry of Agriculture 20(3):13-19 (in Persian).

33. Arab, M., A. Khalighi, **K. Arzani** and R. Naderi 2006. Study on the effect of cold storage, 8-hydroxy koinolin sulphate and sucrose on the vase life and quality of *Matthiola incana* L. cut flowers. Iranian Journal of Agricultural Science 37(1):83-92 (In Persian).
34. Bouzari, N., H. Ebrahimzadeh and **K. Arzani** 2006. Study on genetic diversity of sweet cherry (*Prunus avium* L) using protein markers. Iranian Journal of Agricultural Science 37(3):389-396 (in Persian).
35. Koushesh-Saba, M., **K. Arzani** and M. Jalali-Javaran 2007. Study on Flowering, Pollination, Self and Cross Incompatibility of Some Asian Pear (*Pyrus serotina* Rehd.) Cultivars. Journal of Agricultural Science 37(5):755-763 (In Persian).
36. Arab, M., A. Khalighi, **K. Arzani**, R. Naderi and N. Mohamadi 2007. The effect of 8-hydroxy koinolin sulphate and sucrose on the vase life of *Matthiola incana* L. cut flowers. Journal of Agricultural Science 13(3):623-637 (In Persian).
37. Yazdani, N., **K. Arzani** and I. Arji 2007. The amelioration effect of paclobutrazol on water stress on olives (*Olea europaeae*) cv. Blidi and Mission. Iranian Journal of Agricultural Science 38(2):287-296 (in Persian).
38. Kashefi, B., **K. Arzani** and M.A. Nejatian 2008. Seasonal changes in fruit growth and development of some Asian pear (*Pyrus serotina* Rehd.) genotypes under Tehran environmental conditions. Iranian J. of Agricultural Science 38(4):623-630 (in Persian).
39. Koushesh-Saba, M., **K. Arzani** and M. Jalali-Javaran 2007. The evaluation of five European pears (*Pyrus communis* L.) incompatibility by molecular marker. Iranian Journal of Agricultural Science 38(3):467-473 (in Persian).
40. Yadollahi, A. and **K. Arzani** 2007. Effect of paclobutrazol on reducing vegetative growth and leaf mineral content, and fruit set of almond cultivar 'Mamaei'. Journal of Sciences and Industry of Agriculture 20(3):13-19 (in Persian).
41. Yadollahi, A., **K. Arzani**, A. Ebadi, M. Winthensohn and T. F. Franks 2007. Study of Cyanogenic biosynthesis of bitter and sweet Almond (*Prunus dulcis*). Journal of Agriculture 9(1):67-75 (in Persian).
42. Ghazaeian, M., **K. Arzani** and A. Moeini 2007. Study on pollen morphology of some Asian pear genotypes by scanning electron microscopy (SEM) and determination of suitable pollen germination medium. Iranian Journal of Horticultural Science and Technology 8(2):113-124 (In Persian).
43. Mahmoudi, M., **K. Arzani** and N. Bouzari 2008. Pollination, pollen tube growth and determination of suitable pollinizer for sweet cherry (*Prunus avium* L.) cultivar 'Red Rezaeieh'. Seed and Plant Journal 23(4):571-585 (in Persian).
44. Mortazavi, S.M.H., **K. Arzani** and A. Moeini 2008. The effect of different concentrations of some chemicals on in vitro pollen grain germination of three Khosestan male date cultivars. Journal of Scientific Agriculture 30(4):1-8 (in Persian).
45. Akhlaghi Amiri, N., **K. Arzani**, M.J. Malakouti and M. Barzegar 2008. Evaluation of preharvest fruit drops of the orange cv. Italian (*Citrus sinensis* cv. Italian) and the possibility of its reduction in the north of Iran. Iranian Journal of Horticultural Science and Technology 8(4):271-278 (In Persian).
46. Mortazavi, S.M.H., **K. Arzani** and M. Barzegar 2008. Effect of Dehydration Time and Temperature on the Quality Characteristics of Barhee Date in Rutab Stage. Pajouhesh

- va Sazandegi 21(79):186-193 (in Persian).
47. Koushesh-Saba, M., **Arzani, K.** and Jalali-Javaran, M. 2008. The Study of Some Asian Pear (*Pyrus serotina* Rehd.) Cultivars Incompatibility S Alleles by PCR Technique. Seed and Plant Journal 24(3):445-456 (In Persian).
 48. Khoshghalb, H., **K. Arzani**, M.J. Malakouti and M. Barzegar 2008. Change of sugar and organic acid content in two Asian pear (*Pyrus serotina* Rehd.) cultivars during fruit development and postharvest storage, and its effects on fruit shelf life, quality and internal browning disorder. Journal of Sciences and Technology of Agriculture and Natural Resources 12(45):193-205 (In Persian).
 49. Bahadori F., and **K. Arzani**, 2008. Study of Short-Term Effects of Paclobutrazol on Vegetative Growth of J.H. Hale and Redskin Peach Trees. Journal of Sciences and Technology of Agriculture and Natural Resources 12(45):561-570 (In Persian).
 50. Varasteh, F., **K. Arzani** and Z. Zamani 2008. Investigation of Physicochemical Seasonal Changes of Pomegranate (*Punica granatum* L.) Fruit cv. 'Malas-e-Torsh-e-Saveh'. Iranian Journal of Horticultural Science 39(1): 29-38 (In Persian).
 51. Akhlaghi Amiri, N., **K. Arzani**, M.J. Malakouti and M. Barzegar 2008. Pre-harvest drop and its relation with the auxin amount of the abscission zone in Italian orange. Journal of Agricultural Sciences and Natural Resources 15(5): 77-86 (In Persian).
 52. Fathi, H., **K. Arzani**, A. Ebadi and A. Khalighi 2009. Production of Hybrid Sweet Cherry Plants (Silej-Delamarka and Zard-Daneshkadeh) With Embryo Culture Method. Seed and Plant Improvement Journal 25-1(1):51-64 (In Persian).
 53. Yadollahi, A., **K. Arzani** and A. Ebadi 2009. Evaluation of morphological markers linked to drought resistance in cultivated almond seedlings (*Prunus dulcis* Mill.). Iranian Journal of Horticultural Science 40(1): 1-12 (In Persian).
 54. Alizadeh, S., **K. Arzani** and A. Imani 2009. Determination of Effective Pollination Period (EPP) in the Late-Bloom Almond (*Prunus dulcis* Mill.) Cultivar 'Shahrood 12'. Iranian Journal of Horticultural Science 40(2): 1-8 (In Persian).
 55. **Arzani, K.** and H. Khoshghalb 2009. Study on early growth, performance and survival of some Asian pear cultivars (*Pyrus serotina* Rehd.) on European pear (*Pyrus communis* L.) Seedling rootstock under Tehran environmental conditions. Iranian Journal of Horticultural Science 40(2): 9-18 (In Persian).
 56. Roozban, M.R., **K. Arzani** and M. Mirlatifi 2009. Diurnal variations of photosynthetic gas exchanges in two Iranian pistachio (*Pistacia vera* L.) genotypes. Seed and Plant Production Journal 2-25(3): 287-302 (In Persian).
 57. Kavand, M., **K. Arzani** and A. Imani 2009. Identification of superior almond (*Prunus dulcis*) genotypes in the Broujerd region. Seed and Plant Improvement Journal 25(1): 385-399 (In Persian).
 58. Mousavi, S., **K. Arzani**, S. Alizadeh and F. Varasteh 2009. Seasonal vegetative and fruit growth patterns of some Asian pear (*Pyrus serotina* Rehd.) cultivars under Tehran climatic conditions. Iranian Journal of Horticultural Science and Technology 10(1): 71-84 (In Persian).
 59. Ghasemi M., **K. Arzani**, D. Hassani and S. Ghasemi 2010. Fatty acid composition of some selected walnut genotypes in Markazi province. Journal of Sciences and Food Industry (JFST) 7(1): 31-37 (in Persian).

60. Rasouli, M., **K. Arzani**, A. Imani and M.R. Fatahi Moghadam 2010. Investigation of pollination on the compatibility of some cherry cultivars with cv. 'Zard Daneshkadeh'. Iranian Journal of Horticultural Science 41(2): 143-152 (In Persian).
61. **Arzani, K.**, H. Khoshghalb, M. J. Malakouti and M. Barzegar 2010. Effect of CaCl₂, Zn and B applications with harvest time on fruits polyphenol oxidase (PPO) activity of two Asian pear (*Pyrus serotina* Rehd.) cultivars during storage. Journal of Crop Improvement 12(2): 1-10 (In Persian).
62. Zafarinia, H., **K. Arzani**, and A. Ghasemi 2010. Evaluation of carbohydrates and nutrient content of some young Asian pear (*Pyrus serotina* Rehd.) cultivars on European pear (*Pyrus communis* L.) seedling rootstocks under Isfahan environmental conditions. Iranian Journal of Horticultural Science 41(3): 209-221 (In Persian).
63. Bayati, M., **K. Arzani** and S. Moharramipoor 2010 Evaluation of resistance of Asian pear (*Pyrus serotina* Rehd.) cultivars to pear Lace Bug (*Stephanitis pyri* F.) and investigate the population fluctuations of the pest under environmental conditions of Tehran. Seed and Plant Improvement Journal 26(4): 531-544 (In Persian).
64. Rasouli, M. and **K. Arzani** 2010. Effect of pollen source on pollen tube growth and qualitative and quantitative fruit characteristics of sweet cherry cv 'Zard Daneshkadeh'. Iranian Journal of Horticultural Science 41(3): 309-318 (In Persian).
65. Mortazavi¹, S.M.H., **K. Arzani** and Y. Mansouri 2010. The effects of different temperatures and duration of hydration on the quality of dried date fruits, cv. Barhee. EJFPP 1(4):79-93 <http://ejfpp.gau.ac.ir> (In Persian).
66. Bayati, M., **K. Arzani** and S. Moharramipoor 2011. Evaluation of resistance of Asian pear cultivars to pear Psylla (*Cacopsylla pyricola* L.) under Tehran environmental conditions. Iranian Journal of Horticultural Science and Technology 12 (2):111-118(In Persian).
67. Mortazavi, S.M.H., **K. Arzani** and M. Barzegar 2011. Evaluation of growth pattern and changes in physicochemical attributes of normal and parthenocarpic date fruits cv. 'Barhee'. Iranian Journal of Horticultural Science and Technology 12 (2):131-148(In Persian).
68. Ghasemi M., **K. Arzani**, D. Hassani and S. Ghasemi 2011. Variability in nuts of twelve walnut (*Juglans regia* L.) genotypes in Markazi province. Journal of Sciences and Food Industry (JFST) 8(31): 63-68 (in Persian).
69. Rasouli, M. and **K. Arzani** 2012. Study of Total Photosynthesis Rate and Growth Pattern in Nine Asian Pear (*Pyrus serotina* Rhed) Cultivars Grown under Tehran Environmental Conditions. Iranian J. of Hort. Science 42(4): 329-338 (In Persian).
70. Sarikhani Khorami, S., **K. Arzani**, M. R. Roozban 2012. Identification and Selection of Twelve Walnut Superior and Promising Genotypes in Fars Province, Iran. Seed and Plant Improvement Journal 28(2): 277-296 (In Persian).
71. Mousavi, S., **K. Arzani** and H. Abdollahi 2012. Evaluation of self-compatibility and self-incompatibility in some Asian pears (*Pyrus serotina* Rehd.) and European pears (*Pyrus communis* L.), and Native pear cultivars. Iranian Journal of Horticultural Science 43(3): 311-321 (In Persian).
72. Najafzadeh, R., **K. Arzani**, and A. Babaei 2012. Evaluation of Fruit Physicochemical Properties and Qualitative Characteristics of Some European Pear (*Pyrus communis*

- L.) Genotypes. Journal of Horticultural Science 26(2): 170-177 (In Persian).
73. Nouri Roudsari O., **K. Arzani**, A. Moameni and M. Taheri 2012. Spatial variability of selected soil properties in an olive orchard in the Tarom region, Zanjan province, Iran. Environmental Science 10(1): 49-58 (In English with a Persian abstract).
 74. Dehghani, B., **K. Arzani** and S. Sarikhani Khorami 2013. Pomological Evaluation and Seasonal Variation in Fruit Growth and Development of Some Asian Pear Cultivars Under Tehran Environmental Conditions. Seed & Plant Production Journal 28-2(4): 419-433 (In Persian).
 75. Gholami R., **K. Arzani** and I. Arji 2013. Effect of paclobutrazol (PBZ) and different irrigation amounts on vegetative growth and performance of young olive plants cv. Manzanillo. Journal of Horticultural Science 26(2): 170-177 (In Persian).
 76. Khoshghalb, H., **K. Arzani**, M. J. Malakouti and M. Barzegar 2013. Effect of Ca, Zn and B spray application on preharvest fruit drop, sugar and nutrient contents and some of the quantitative and qualitative fruit characteristics of some Asian pear (*Pyrus serotina* Rehd.) cultivars. Iranian Journal of Horticultural Science 44(2): 149-159 (In Persian).
 77. Sherafaty, A., **K. Arzani** and M.R. Ramazani-Moghadam 2013. Assessment of Flowering and Bearing of Twelve Pistachio (*Pistacia vera* L.) Cultivars Under Khorasan Environmental Conditions. Seed and Plant Improvement Journal 29-1(2): 243-256 (In Persian).
 78. Erfani J., H. Abdollahi, A. Ebadi, M.R. Fatahi Moghadam and **K. Arzani** 2013. Evaluation of Fire Blight Resistance and the Related Markers in Some European and Asian Pear Cultivars. Seed and Plant Improvement Journal 29-1(4): 659-672 (In Persian).
 79. Sarikhani Khorami, S., **K. Arzani**, M. R. Roozban and M. Mir-Soleimani 2014. Evaluation of Morphological, Phenological and Pomological Diversity of Some Persian Walnut (*Juglans regia* L.) Genotypes in North of Fars. Iranian Journal of Horticultural Science 44(3): 301-313 (In Persian).
 80. Ghasemi M., **K. Arzani**, A. Yadollahi, H. Hokmabadi 2014. Effect of drought stress on chlorophyll fluorescence, chlorophyll contents and chlorophyll index in four pistachio seedling rootstocks. Journal of Water Research in Agriculture 27(4): 475-485 (in Persian).
 81. Khaleghi E., **K. Arzani**, N. Moallemi and M. Barzegar 2014. Studying the Effect of Using Kaolin on Fluorescence and Chlorophyll Content in Leaves of Olive Seedling (*Olea Europaea* L. CV Dezful) under Water Deficit Stress. Journal of Plant Production 37 (2): 127-139 (in Persian).
 82. Najafzadeh, R., **K. Arzani** and N. Bouzari 2014. Assessment of Morphological and Pomological Variation of Some Selected Iranian Sour Cherry (*Prunus cerasus* L.) Genotypes. Seed and Plant Improvement Journal 30(2): 243-267 (In Persian).
 83. Kousheshsaba, M., **K. Arzani** and Mohsen Barzegar 2014. Apricot (*Prunus armeniaca* L.) antioxidant changes during storage in a cold room. Journal of Sciences and Food Industry (JFST) 44(11): 11-21 (In Persian).
 84. Najafzadeh, R., **K. Arzani** and N. Bouzari 2014. Fruit Physicochemical and Qualitative Characteristics of some Superior Sour Cherry (*Prunus cerasus* L.) Genotypes. Seed and

- Plant Improvement Journal 30(3): 623-650 (In Persian).
85. Khaleghi E., **K. Arzani**, N. Moallemi and M. Barzegar 2013. Effect of Kaolin spray on physicochemical parameters and fatty acid composition of olive oil cv. Zard under Fasa city climatic conditions. Journal of Crop Improvement 16(1):169-184(in Persian).
 86. Maghdouri Maryam, **Kazem Arzani** and Davoud Bakhshi 2015. Phenolic Compounds and Antioxidant Activity of Some Asian pears (*Pyrus serotina* Rehd.) Cultivars Under Tehran Climatic Conditions. Seed & Plant Production Journal 30(3):315-326 (In Persian).
 87. Nikzad-Gharehaghaji A., H. Abdollahi, **K. Arzani**, A. Shojaeiyan, P.D. Franceschi and L. Dondini 2015. Chloroplastic Genetic Diversity and Gene Flow in Pear Species Revealed by the CAPS Marker. Seed and Plant Improvement Journal 31(1): 117-134 (In Persian).
 88. Asadi Gharneh H.A., **K. Arzani**, A. Shojaeiyan, A.R. Golparvar and N. Sabaghnia 2013. Evaluation of Genetic Diversity in Some of the Strawberry (*Fragaria annanasa* Duch) Cultivars in Iran Using Morphological Characteristics. Journal of Plant Production (Ahvaz University) 37(4): 93-106 (In Persian).
 89. Rahmati Mostafa, **Kazem Arzani** and Abbas Yadollahi, 2015. Variation in Some European Pear (*Pyrus communis* L.) Seedling Rootstock Populations Using Morphological Characteristics. Seed and Plant Improvement Journal 31(2): 391-397 (In Persian).
 90. Akbari A., N. Bouzari, M.E. Amiri and **K. Arzani** 2015. Evaluation of pomological traits of some new sweet cherry cultivars under Karaj conditions. Iranian Journal of Horticultural Science 46(1): 17-25 (In Persian).
 91. Mousavi, S., K. Arzani, M. Hosseini-Mazinani and A. Yadollahi 2015. Responses of commercial olive cultivars (*Olea europaea* L.) to cold stress using the electrolyte leakage method and measuring total soluble carbohydrate. Journal of Crop Production and Processing (JCPP) 5(16): 85-95 (in Persian).
 92. Zivdar Shohreh, **Kazem Arzani**, Mohamad Kazem Souri, Norollah Moallemi and Seyed-Mansour Seyednejad 2015. The Effect of Foliar Potassium Sulfate Application on Some Quantitative and Qualitative Characteristics of Fruit and Oil of Three Olive (*Olea europaea* L.) Cultivars Grown under Ahvaz Environmental Conditions. The Plant Production (Ahvaz University) 38(3): 13-26. (in Persian).
 93. Nikzad-Gharehaghaji A., **K. Arzani**, H. Abdollahi, A. Shojaeiyan, P.D. Franceschi, L. Dondini 2015. Identification and S-genotyping of Novel S-alleles in Wild Species of the *Pyrus* Genus. Journal of Crop Production and Processing (JCPP) 5(17): 239-252 (in Persian).
 94. Ghasemi M., **K. Arzani**, A. Yadollahi, H. Hokmabadi 2016. Leaf and root mineral concentrations of four pistachio seedling rootstocks under different irrigation regimes. Iranian Journal of Horticultural Science 46(4): 659-667 (In Persian).
 95. Najafzadeh, R. and **K. Arzani** 2016. Assessment of morphological, physiological and pomological variations of some European pear (*Pyrus communis* L.) genotypes. Journal of Horticulture and Crop Production and Processing (JCPP) 6(19): 151-164 (in Persian).
 96. Khajepour Tadavani Abbas, **Kazem Arzani**, Hamid Zargari and Saadat Sarikhani Khorami 2016. Effect of Pollen on Quantitative and Qualitative Characteristics of Date

- Fruit (*Phoenix dactylifera* L.) cv. Shahani. Seed and Plant Improvement Journal 32(3): 293-310 (in Persian).
97. Sheikhi Abdollatif, **Kazem Arzani** and Mahmoud Kosheshsaba, 2016. Determination of Self and Cross-(In) Compatibility of some Asian Pear (*Pyrus serotina* Rehd.) and European Pear (*Pyrus communis* L.) Cultivars Native to Iran. Seed and Plant Improvement Journal 32(3): 383-400 (in Persian).
 98. ShafaeiChorush, Zeynab and **Kazem Arzani** 2016. Evaluation of quantitative and qualitative characteristics of some walnut genotypes in Kermanshah province. Seed and Plant Improvement Journal 32(4): 437-459 (in Persian).
 99. Dehghani Behnam, **Kazem Arzani**, Daryoush Houshmand and Ali Asghar Zinanlo 2017. Evaluation of Fruit Characteristic in Some Olive Cultivars in Fasa. Seed and Plant Improvement Journal 32(4): 437-459 (in Persian).
 100. Torahi Aziz and **Kazem Arzani**, 2017. Studying the Effects of Dust on Date Palm (*Phoenix dactylifera* L.) Pollination and Fruit Set. The Plant Production (Ahvaz University) 40(2): 63-74. (in Persian).
 101. Mohamad Kavand, **Kazem Arzani**, Mohsen Barzegar and Majid Mirlatifi 2017. Effects of Sunscreen, Kaolin Application, Fruit Thinning and Supplementary Irrigation on the Aril Browning Disorder of Pomegranate cv. 'Malase Torshe Saveh'. Seed & Plant Production Journal 33(1):85-112 (In Persian).
 102. Shafaei Chorush, Zeynab and **Kazem Arzani**, 2018. Evaluation of the diversity of walnut promising genotypes in Kermanshah province according to oil properties and determining the correlation of these traits with some morphological and ecological characters. Iranian Journal of Horticultural Science 48(4): 887-897 (In Persian).
 103. Sarikhani Khorami, S., **K. Arzani**, G. Karimzadeh and A. Shojaeyan 2017. Morphological Characteristics, Protein Contents and Fatty Acids Composition of some Walnut (*Juglans regia* L.) Superior Genotypes in the North of Fars Province. Seed and Plant Improvement Journal 33(2): 163-184 (In Persian).
 104. Yaghoobi F, Sourì M K, **Arzani K.** 2018. Effects of spraying ammonium sulfate on growth, yield and qualitative traits of cucumber plants under greenhouse conditions IJGCST (The Soil and Plants Interactions Journal) 9 (1): 41-51
 105. Karbasi, Massume and **Kazem Arzani** 2018. Scion/Rootstock Interactions of Some European (*Pyrus communis* L.) and Asian Pear (*Pyrus serotina* Rehd) Cultivars on Vegetatively Propagated 'Pyrodwarf' Rootstock. Seed & Plant Production Journal 34(2):191-205 (In Persian).DOI: 10.22092/sppj.2018.118944
 106. Faghih Nasiri, M., Omidbaigi, R., Tabatabaie, S.M.F., **Arzani, K.**, Zare, R. 2019. Comparison of the effect of physical and chemical treatments on decay control, qualitative characteristics and some flavonoids of Thomson-navel orange fruits in cold storage. Journal of Food Science and Technology (JFST) 16(86):133-147 (in Persian).URL: <http://journals.modares.ac.ir/article-7-19357-en.html>
 107. Sherafati, A., Arzani, K. (2019). 'The Relationship Between Size and Type of Shoot with Fruit Bearing in Some Pistachio (*Pistacia vera* L.) Cultivars Under Khorasan Razavi Climatic Conditions', *Seed and Plant Production Journal*, 35(2), pp. 203-219. doi: 10.22092/sppj.2020.120762
 108. Mohamad Kavand, **Kazem Arzani**, Mohsen Barzegar and Majid Mirlatifi 2019.

- Practical approaches in reducing aril browning disorder in commercial pomegranate orchards. *Pomegranate Extension Journal* 1(1):1-9 (In Persian).
109. Fattahi, B., **Arzani, K.**, Souri, M., Barzegar, M. (2020). 'Effect of cadmium and lead on morpho-physiological traits and Photosynthesis of sweet basil (*Ocimum basilicum* L.)', *Iranian Journal of Horticultural Science*, 50(4), pp. 839-849. (In Persian). doi: 10.22059/ijhs.2019.239379.1303
 110. Rezaei, Ali, **Kazem Arzani** and Saadat Sarikhani 2020. Morphological evaluation and identification of walnut (*Juglans regia* L.) superior genotypes in north Hamadan province of Iran. *Iranian Journal of Horticultural Science* Vol. 51 (2): 441-457. (In Persian).
 111. Ebtetaei, M., **Arzani, K.** and Abdoladi, H. (2022). Physiological and Biochemical Responses of Dargazi Seedling and Pyrodwarf Clonal Pear Rootstocks to Melatonin Application under Drought Stress Conditions. *Seed and Plant Journal* 37 (4): 470-453 (In Persian) DOI: 10.22092/SPPI.2022.359421.1265
 112. Maleki Asayesh, Z., **Arzani, K.**, Mokhtassi-Bidgoli, A. and Abdollahi, H. 2022. Macronutrient Uptake and Nitrogen Use Efficiency in Dargazi Seedling and Pyrodwarf Clonal Rootstocks Under Drought Stress Conditions. *Seed and Plant Journal* 37 (4): 489-511 (In Persian) DOI: 10.22092/spj.2022.360009.1274
 113. Fallah, S., Arzani, K. and Bouzari, N. (2022). Flowering and Self-Incompatibility in Some of the Superior Apricot (*Prunus armeniaca* L.) Genotypes Grown in Barzok (Kashan) Climate. *Iranian Journal of Horticultural Science and Technology* 23 (3): 511-522.
 114. Jalili, S., **Arzani, K.**, Bouzari, N. Roozban, M.R., Ahmadi, N., and Martínez-Gómez, P. (2023). Molecular study and morpho-physiological response of some wild cherry genotypes under drought stress. *Iranian Journal of Horticultural Science*, 53(4): 967-976.
 115. Rezaei, Ali, Hamid Abdollahi and **Kazem Arzani** 2022. Preliminary Evaluation of Different Pear Species (*Pyrus* spp.) Based on the Distinctive Characteristics of Seed, Fruit and Early Growth of Seedlings. *Seed and Plant* 38 (4): 385-408. (In Persian).
 116. Mousavi H, **Arzani K**, Rahmati M. (2023). Investigation of Scion and Rootstock Incompatibility in Some Asian (*Pyrus serotina* Rehd) and European (*Pyrus communis* L.) Pears. *Iranian Journal of Horticultural Science and Technology (IJHST)* 24 (1):73-82 URL: <http://journal-irshs.ir/article-1-45-en.html>
 117. Sadeghi F, **Arzani K**, Piri S. 2023. Study of the Dynamics of Flowering and Fruiting of Some Pome and Stone Fruit Trees in Zanjan Province. *Iranian Journal of Horticultural Science and Technology (IJHST)* 24 (1):139-156 URL: <http://journal-irshs.ir/article-1-592-en.html>
 118. Rezaei, A., Abdollahi, H., **Arzani, K.**, Mokhtassi-Bidgoli, A., and Ahmadi, N. 2024. Preliminary Selection of Different Species of the Genus Pear (*Pyrus*) for Dwarfing and Nutrient Uptake. *Seed and Plant* 39 (2): 282-253. (In Persian).
 119. Pourghasemian, V., **Arzani, K.** and Abdollahi, H. 2024. Comparison of vegetative and reproductive traits of promising pear genotype A95 with some native commercial pear cultivars of Iran based on the distinctness, uniformity and stability tests. *Seed*

and Plant, 40, pp.211–239 (in Persian).

DOI: [10.22092/spj.2025.368554.1404](https://doi.org/10.22092/spj.2025.368554.1404)

120. Vahedi-Gerdevisheh, Fatemeh and **Kazem Arzani** 2024. The study on the pollen morphology and the effect of temperature and storage period on pollen germination of the early and mid-maturing Asian pear (*Pyrus serotina* Rehd.) and European pear (*Pyrus communis* L.) cv. 'Shahmiveh'. Iranian Journal of Horticultural Science and Technology (IJHST) 25 (4): 487-500 (in Persian).
URL: <http://journal-irshs.ir/article-1-691-en.html>
121. Kahnouji, A. & **Arzani, K.** (2025). Exploring the Germination and Pollen Grain Morphology of European Pear (*Pyrus communis* L.) with the Promising Genotype A95 and Cultivar 'Sebri' to Improve Yield. Iranian Journal of Horticultural Science, 56 (1), 205- 221. DOI: <https://doi.org/10.22059/ijhs.2024.379380.2187>
122. Rezaei, A., Abdollahi, H., **Arzani, K.**, Mokhtassi-Bidgoli, A., and Ahmadi, N. 2024. The effect of prolonged drought stress on dry matter accumulation and nutrient uptake in seedling and clonal rootstocks of pear (*Pyrus* spp.) and two commercial quince rootstocks (*Cydonia oblonga* Mill). Journal of Plant Production (Ahvaz University): in press

PUBLISHED PAPERS IN THE ISHS SYMPOSIA PROCEEDINGS (*Acta Horticulturae*)

- 1- **Arzani, K.**, G.S. Lawes and D.E.S. Wood 1997. An aeroponic system for water stress studies in apricot. *Acta Hortic.* 449: 505–512.
http://www.actahort.org/books/449/449_70.htm
- 2- **Arzani, K.** and A. Khalighi 1998 Pre-season Pollen Collection and outdoor hybridization for pollinizer determination in sweet cherry cv. Siah Mashad. *Acta Hortic.* 468:575-582. http://www.actahort.org/books/468/468_71.htm
- 3- **Arzani, K.**, G.S. Lawes and D.E.S. Wood 1999. Estimation of Sundrop apricot fruit volume and fresh weight from fruit diameter. *Acta Hortic.* 488:321-326.
http://www.actahort.org/books/488/488_50.htm
- 4- **Arzani, K.**, D.E.S. Wood and G.S. Lawes. 1999. Vegetative and reproductive response of mature Sundrop apricot trees to root pruning. *Acta Hortic.* 488:465-468. http://www.actahort.org/books/488/488_74.htm
- 5- **Arzani, K.**, D.E.S. Wood and G.S. Lawes 2000. Seasonal vegetative and fruit growth pattern of mature close-planted Sundrop apricot trees grown under a humid climate. *Acta Hortic.* 514:295-300. http://www.actahort.org/books/514/514_35.htm
- 6- **Arzani, K.**, G. S. Lawes and D.E. S Wood 2000. The response of 'Sundrop' apricot seedlings to the soilless culture system and exogenous cytokinin application. *Acta Hortic.* 516:67-74. http://www.actahort.org/books/516/516_7.htm
- 7- **Arzani, K.**, D.E.S. Wood and G.S. Lawes 2000 Influence of first season application of paclobutrazol, root-pruning and regulated deficit irrigation on second season flowering and fruiting of mature 'Sundrop' apricot trees. *Acta Hortic.* 516:75-82.
http://www.actahort.org/books/516/516_8.htm

- 8- **Arzani, K.,** G. S. Lawes and D.E. S Wood 2000. The water relations of mature 'Sundrop' apricot trees in response to different vigour control techniques. *Acta Hortic.* 537:231-239. http://www.actahort.org/books/537/537_24.htm
- 9- **Arzani, K,** and I. Argi, 2000. The effect of water stress and deficit irrigation on young potted olive cv Local-Roghani Roodbar. *Acta Hortic.* 537(2):879-875. http://www.actahort.org/books/537/537_106.htm
- 10- **Arzani, K.** and I. Argi, 2002. The response of young potted olive plants, cv. 'Zard' to water stress and deficit irrigation *Acta Hortic.* 586:419-422. http://www.actahort.org/books/586/586_86.htm
- 11- **Arzani, K,** and T. Javady, 2002. Study of flower biology and pollen tube growth of the mature olive tree cv 'Zard'. *Acta Hortic.* 586:544-548. http://www.actahort.org/books/586/586_114.htm
- 12- **Arzani, K.** 2002. The position of pear breeding and culture in Iran: Introduction of some Asian pear (*Pyrus serotina* Rehd.) cultivars. *Acta Hortic.* 587:167-173. http://www.actahort.org/books/587/587_18.htm
- 13- **Arzani, K.,** Hokmabady, H. and Dehghani-Shouraki, Y. 2002. Effects of foliar application of some carbohydrates on qualitative and quantitative traits of pistachio nuts cv. Kalleh-Ghoochi. *Acta Hortic.* 594:291-295. http://www.actahort.org/books/594/594_34.htm
- 14- **Naseri, L., Arzani, K.** and Babalar, M. 2002 Foliar B, copper and manganese uptake and concentration of apple leaves cv. Golden Delicious on M9 and B9 rootstocks. *Acta Hortic.* 594:237-243. http://www.actahort.org/books/594/594_27.htm
- 15- **Arzani, K.** 2002. Introduction of some Asian pear cultivars (*Pyrus pyrifolia*) to Iran. *Acta Hortic.* 596:287-290. http://www.actahort.org/books/596/596_45.htm
- 16- **Arzani, K.** 2004. The effect of European pear (*Pyrus communis* L.) and quince (*Cydonia oblonga* L.) seedling rootstocks on growth and performance of some Asian pear (*Pyrus serotina* Rhed) cultivars. *Acta Hortic.* 658: 93-97. http://www.actahort.org/books/658/658_10.htm
- 17- **Arzani, K.** and H. Hokmabadi 2004. Effects of boron and sodium chloride concentration on. *Acta Hortic.* 658: 407 – 412. http://www.actahort.org/books/658/658_60.htm
- 18- **Arzani, K.** 2005. Progress in the National Asian pear project: Study on the adaptation of some Asian pear (*Pyrus serotina* Rhed) cultivars under Iran environmental conditions. *Acta Hortic.* 671:209-212. http://www.actahort.org/books/671/671_27.htm
- 19- **Arzani, K.,** M.Koshesh-saba and F. Ghanati 2005. Study on compatibility and pollen tube growth of some Asian pear (*Pyrus serotina* Rhed) cultivars. *Acta Hortic.* 671:159-163. http://www.actahort.org/books/671/671_19.htm
- 20- **Arzani, K.,** H. Khoshghalb and G. Karimzadeh 2005. Scion/rootstock influence on grafting success, early performance, tree survival and efficiency of nutrient uptake of some Asian pear (*Pyrus serotina* Rhed) cultivars. *Acta Hortic.* 671:477-480. http://www.actahort.org/books/671/671_67.htm
- 21- **Hokmabadi, H., Arzani, K.,** Gheibi, B. and Hadavi, F. 2006. Growth and leaf chemical composition of three pistachio (*Pistacia vera* L.) rootstock seedlings in response to

- boron excess in irrigation water. *Acta Hortic.* 726:363-366
http://www.actahort.org/books/726/726_58.htm
- 22- Mortazavi, S.M.H., **Arzani, K.** and Barzegar, M. 2007. Effect of vacuum and modified atmosphere packaging on the postharvest quality and shelf life of date fruits in the khalal stage. *Acta Hortic.* 736:471-477
http://www.actahort.org/books/736/736_45.htm
- 23- **Arzani, K.**, Wood, D.E.S. and Lawes, G.S. 2007. Influence of water stress and exogenous cytokinin application on growth and gas exchange of young 'Trevatt' apricot grown under an aeroponic system and controlled environment conditions. *Acta Hortic.* 742:51-55. http://www.actahort.org/books/742/742_6.htm
- 24- Koushesh-Saba, M., **Arzani, K.** and Jalali-Javaran, M. 2007. Evaluation of incompatibility in five European pears (*Pyrus communis* L.) cultivars using PCR. *Acta Hortic.* 763:39-42. http://www.actahort.org/books/763/763_4.htm
- 25- Arji, I. and **Arzani, K.** 2008. Effect of water stress on some biochemical changes in the leaves of five olive (*Olea europaea* L.) cultivars. *Acta Hortic.* 791:523-526.
http://www.actahort.org/books/791/791_80.htm
- 26- **Arzani, K.** and Yazdani, N. 2008. The influence of drought stress and paclobutrazol on quantitative changes of proteins in olive (*Olea europaea* L.) cultivars 'Bladi' and 'Mission'. *Acta Hortic.* 791:527-530.
http://www.actahort.org/books/791/791_81.htm
- 27- Mahmoodi, M., **Arzani, K.** and Bouzari, N. 2008. Pollination, pollen tube growth and determination of the best pollinizer for sweet cherry cv. Red Rezaeieh. *Acta Hortic.* 769:207-210. http://www.actahort.org/books/769/769_28.htm
- 28- **Arzani, K.**, Kashefi, B. and Nejatian, M.A. 2008. Seasonal changes in fruit growth and development of some Asian pear (*Pyrus serotina* Rehd.) genotypes under Tehran environmental conditions. *Acta Hortic.* 769:231-236
http://www.actahort.org/books/769/769_32.htm
- 29- Javadi, T., **Arzani, K.** and Ebrahimzadeh, H. 2008. Study of proline, soluble sugar, and chlorophyll a and b changes in nine Asian and one European pear cultivar under drought stress. *Acta Hortic.* 769:241-246
http://www.actahort.org/books/769/769_34.htm
- 30- Varasteh, F., **Arzani, K.**, Zamani, Z. and Tabatabaei, S.Z. 2008. Physico-chemical seasonal changes of pomegranate (*Punica granatum* L.) fruit 'Malas-e-Torsh-e-Saveh' in Iran. *Acta Hortic.* 769:255-258
http://www.actahort.org/books/769/769_36.htm
- 31- **Arzani, K.** and Mousavi, S. 2008. Chilling requirement of some Asian pear (*Pyrus serotina* Rehd.) cultivars grown under Tehran environmental conditions. *Acta Hortic.* 800:339-342. http://www.actahort.org/books/800/800_42.htm
- 32- Khoshghalb, H., **Arzani, K.**, Tavakoli, A., Malakouti, M.J. and Barzegar, M. 2008. Quality of some Asian pear (*Pyrus serotina* Rehd.) fruit in relation to pre-harvest CaCl₂, Zn and B sprays, harvest time, ripening and storage conditions. *Acta Hortic.* 800:1027-1034. http://www.actahort.org/books/800/800_140.htm
- 33- Varasteh, F., **Arzani, K.**, Zamani, Z. and Mohseni, A. 2009. Evaluation of the most important fruit characteristics of some commercial pomegranate (*Punica granatum*

- L.) cultivars grown in Iran. *Acta Hortic.* 818:103-108.
http://www.actahort.org/books/818/818_13.htm
- 34- **Arzani, K.**, Khoshghalb, H., Malakouti, M.J. and Barzegar, M. 2010. Prevention of enzymatic browning of Asian pear (*Pyrus serotina* Rehd.) by some anti-browning agents. *Acta Hortic.* 858: 273-277. http://www.actahort.org/books/858/858_13.htm
- 35- Yadollahi, A., **Arzani, K.** and Khoshghalb, H. 2010. The role of nanotechnology in horticultural crops' postharvest management. *Acta Hortic.* 875:49-56.
http://www.actahort.org/books/875/875_4.htm
- 36- Mortazavi, S.M.H., **Arzani, K.** and Barzegar, M. 2010. Analysis of sugars and organic acids contents of date palm 'Barhee' during fruit development. *Acta Hortic.* 882:793-801. http://www.actahort.org/books/882/882_90.htm
- 37- Torahi, A. and Arzani, K. 2010. Date Palm (*Phoenix dactylifera* L.) fruit growth pattern. *Acta Hortic.* 864:201-205 http://www.actahort.org/books/864/864_26.htm
- 38- Mortazavi, S.M.H., **Arzani, K.** and Arujalian, A.A. 2010. Modified atmosphere packaging of date fruit (*Phoenix dactylifera* L.) cultivar 'Barhee' in khalal stage. *Acta Hortic.* 882:1063-1069. http://www.actahort.org/books/882/882_123.htm
- 39- Akhlaghi Amiri, N., **Arzani, K.** and Asadi Kangarshahi, A. 2012. Reduction in June drop, a way to reduce losses of Satsuma mandarin (*Citrus unshiu*). *Acta Hortic.* 928:287-290. http://www.actahort.org/books/928/928_36.htm
- 40- Akhlaghi Amiri, N., **Arzani, K.**, Barzegar, M. and Asadi Kangarshahi, A. 2012. Physiology of pre-harvest drop in Thompson Navel orange (*Citrus sinensis*). *Acta Hortic.* 928:293-296. http://www.actahort.org/books/928/928_38.htm
- 41- Alizadeh-Salteh, S., **Arzani, K.**, Omidbeigi, R., Safaie, N. and Mohammadi, P. 2013. Savoury essential oil effect on postharvest control of Rhizopus rot on packaged peaches in polyethylene films. *Acta Hortic.* 1012:759-762.
http://www.actahort.org/books/1012/1012_102.htm
- 42- Yazdani, N., **Arzani, K.**, Mostofi, Y. and Shekarchi, M. 2013. The effect of 1-MCP on internal browning incidence of Asian pear (*Pyrus serotina* Rehd.). *Acta Hortic.* 1012:1523-1528 http://www.actahort.org/books/1012/1012_207.htm
- 43- Nikzad Gharehaghaji, A., **Arzani, K.**, Abdollahi, H., Shojaeiyan, A., Henareh, M., De Franceschi, P. and Dondini, L. 2014. CHLOROPLAST GENOME DIVERSITY OF THE *PYRUS* GENUS; FROM IRANIAN AND EUROPEAN WILD PEAR SPECIES TO THE CULTIVATED CULTIVARS. *Acta Hortic.* 1032:151-158
http://www.actahort.org/books/1032/1032_20.htm
- 44- Nikzad Gharehaghaji, A., Abdollahi, H., **Arzani, K.**, Shojaeiyan, A., Naghi Padasht, M., Dondini, L. and De Franceschi, P. 2014. CONTRIBUTION OF WESTERN AND EASTERN SPECIES TO THE IRANIAN PEAR GERMPLASM REVEALED BY THE CHARACTERIZATION OF S-GENOTYPES. *Acta Hortic.* 1032:159-167
http://www.actahort.org/books/1032/1032_21.htm
- 45- Sarikhani Khorami, S., **Arzani, K.** and Roozban, M.R. 2014. CORRELATIONS OF CERTAIN HIGH-HERITABILITY HORTICULTURAL TRAITS IN PERSIAN WALNUT

- (*JUGLANS REGIA* L.). Acta Hort. 1050:61-68.
http://www.actahort.org/books/1050/1050_6.htm
- 46- Arzani, K. and Hokmabadi, H. 2015. GROWTH RESPONSE OF TWO YOUNG PISTACHIO (*PISTACIA VERA* L.) ROOTSTOCK SEEDLINGS TO BORON EXCESS IN IRRIGATION WATER UNDER A SOILLESS CULTURE SYSTEM. Acta Hort. 1062:67-70
http://www.actahort.org/books/1062/1062_7.htm
- 47- Arzani, K. and Hakimnejad, S. 2015. PRELIMINARY EVALUATION OF SOME GRAPE CULTIVARS (*VITIS VINIFERA*) GROWN IN THE TARBAT MODARES UNIVERSITY (TMU) COLLECTION VINEYARD. Acta Hort. 1082:259-262
http://www.actahort.org/books/1082/1082_36.htm
- 48- Arzani, K. (2020). The onset of controlled hybridization, pollination studies and the history of pollinizer application in the commercial fruit tree orchards in Iran. Acta Hort. 1297, 137-144. DOI: 10.17660/ActaHortic.2020.1297.19
<https://doi.org/10.17660/ActaHortic.2020.1297.19>
- 49- Jalili, S., Arzani, K., Salazar, J.A., Martínez-García, P.J., Martínez-Gómez, P., Bouzari, N., Roozban, M.R., Ahmadi, N. and Prudencio, A.S. (2021). Transcriptional responses of wild cherries under drought stress and their molecular characterization by using *Prunus* SSR sequences. Acta Hort. 1307, 307-314
 DOI: 10.17660/ActaHortic.2021.1307.47
<https://doi.org/10.17660/ActaHortic.2021.1307.47>
- 50- Karbasi, M. and Arzani, K. (2021). Asian and European pear scion-rootstock interactions and pyrodwarf rootstock root growth and distribution. Acta Hort. 1315, 63-68
 DOI: 10.17660/ActaHortic.2021.1315.10
<https://doi.org/10.17660/ActaHortic.2021.1315.10>
- 51- Ebtedaei, M., Arzani, K. and Sarikhani, S. (2021). Evaluation of chilling requirement and heat accumulation in three European pear cultivars and genotypes. Acta Hort. 1315, 69-76
 DOI: 10.17660/ActaHortic.2021.1315.11
<https://doi.org/10.17660/ActaHortic.2021.1315.11>
- 52- Karimi, B., Arzani, K. and Pedram, M. (2021). Canopy re-establishment after severe winter cold damage of mature olive (*Olea europaea* L.) trees cultivars 'Blaidy' and 'Mission' grown under Tehran environmental conditions. Acta Hort. 1315, 85-90
 DOI: 10.17660/ActaHortic.2021.1315.13
<https://doi.org/10.17660/ActaHortic.2021.1315.13>
- 53- Arzani, K. (2021). The National Asian Pear (*Pyrus serotina* Rehd) project in Iran: compatibility and commercial studies of introduced cultivars. Acta Hort. 1315, 91-98

- DOI: 10.17660/ActaHortic.2021.1315.14
<https://doi.org/10.17660/ActaHortic.2021.1315.14>
- 54- Sarikhani, S., Arzani, K. and Roozban, M.R. (2021). Late leafing FaBaAg1 Persian walnut (*Juglans regia* L.) promising genotype as the new selection from Tarbiat Modares University fruit trees breeding program. Acta Hortic. 1315, 161-166
DOI: 10.17660/ActaHortic.2021.1315.24
<https://doi.org/10.17660/ActaHortic.2021.1315.24>
- 55- Rezaei, A., Arzani, K. and Sarikhani, S. (2021). Preliminary assessment of morphological and pomological characteristics of mature walnut (*Juglans regia* L.) genotypes in the north of Hamadan Province, Iran. Acta Hortic. 1315, 279-286
DOI: 10.17660/ActaHortic.2021.1315.42
<https://doi.org/10.17660/ActaHortic.2021.1315.42>
- 56- Kakhodaie, S., Arzani, K., Yadollahi, A., Karimzadeh, G. and Abdollahi, H. (2021). Preliminary assessment of cytological characteristics of two European pear (*Pyrus communis* L.) cultivars. Acta Hortic. 1315, 287-292
DOI: 10.17660/ActaHortic.2021.1315.43
<https://doi.org/10.17660/ActaHortic.2021.1315.43>
- 57- Fallah-Barzoki, S., Arzani, K. and Bouzari, N. (2021). Preliminary assessment of the genetic diversity of mature apricot (*Prunus armeniaca* L.) genotypes grown under Kashan environmental conditions. Acta Hortic. 1315, 307-312
DOI: 10.17660/ActaHortic.2021.1315.46
<https://doi.org/10.17660/ActaHortic.2021.1315.46>
- 58- Torahi, A., Arzani, K. and Moallemi, N. (2021). Studying the effects of dust on date palm (*Phoenix dactylifera* L.) pollination and fruit set. Acta Hortic. 1315, 341-346
DOI: 10.17660/ActaHortic.2021.1315.51
<https://doi.org/10.17660/ActaHortic.2021.1315.51>
- 59- Ghasemi, M., Arzani, K., Yadollahi, A., Hokmabadi, H. and Guy, R.D. (2021). Identification of some drought resistance mechanisms in four pistachio seedling rootstocks under water stress. Acta Hortic. 1315, 367-374
DOI: 10.17660/ActaHortic.2021.1315.55
<https://doi.org/10.17660/ActaHortic.2021.1315.55>
- 60- Kavand, M., Arzani, K., Barzegar, M. and Mirlatifi, M. (2021). Orchard management for reducing pomegranate aril browning disorder. Acta Hortic. 1315, 503-512
DOI: 10.17660/ActaHortic.2021.1315.74
<https://doi.org/10.17660/ActaHortic.2021.1315.74>
- 61- Kavand, M., Arzani, K., Barzegar, M. and Mirlatifi, M. (2021). Identification of the tolerant pomegranate genotypes for the aril browning or aril paleness disorder. Acta Hortic. 1315, 609-614

DOI: 10.17660/ActaHortic.2021.1315.89

<https://doi.org/10.17660/ActaHortic.2021.1315.89>

- 62- Arzani, K., Nock, J.F. and Watkins, C.B. (2021). Non-destructive 'Delicious' apple fruit assessments for watercore using DA meter in response to harvest date, and Harvista and ReTain applications. *Acta Hortic.* 1315, 669-674

DOI: 10.17660/ActaHortic.2021.1315.99

<https://doi.org/10.17660/ActaHortic.2021.1315.99>

PAPERS PRESENTED AT THE INTERNATIONAL CONFERENCES

- 1- **Arzani, K.,** G.S. Lawes, D.E.S. Wood and H. Varela-Alvarez. 1992. Control of vegetative growth on apricot trees cv. Sundrop. *New Zealand Society for Horticultural Science conference*, Lincoln University. New Zealand.
- 2- **Arzani. K.,** G.S. Lawes, D.E.S. Wood, and H. Varla-Alvarez. 1993. Vigour control in agricot cv. 'Sundrop'. *Xth International symposium on apricot culture*, September 20-24, Izmir, Turkey.
- 3- **Arzani, K.,** D.E.S. Wood, G.S. Lawes and H.Varela-Alvarez. 1994. The effect of root pruning on vegetative growth and fruit size of apricot cv. Sundrop. *New Zealand Society for Horticultural Science Conference*, Massey University, New Zealand.
- 4- **Arzani. K.,** G. S. Lawes and D.E.S. Wood 1996. An aeroponic system for water stress studies in apricot. *Second International Symposium on Irrigation of Horticultural Crops*. September 8-13, 1996, Greece.
- 5- **Arzani K.,** D. E. S. Wood and G. S Lawes 1997. The effect of paclobutrazol on vegetative and reproductive growth of mature Sundrop apricot trees. *8th international symposium on plant bioregulators in fruit production*. April 1-4, 1997, Valencia, Spain.
- 6- **Arzani. K.** G. S Lawes and D.E.S. Wood 1997 Estimation of Sundrop apricot fruit volume and fresh weight from fruit diameter. *XIth international symposium on apricot culture*, 25-30 May. Veria. Greece.
- 7- **Arzani, K.,** D.E.S. Wood and G. S. Lawes 1997 Vegetative and reproductive response of mature Sundrop apricot trees to root pruning. *XIth international symposium on apricot culture*. May 25-30, Veria, Greece.
- 8- **Arzani K.** and A. Khalighi 1997 Pre-season pollen collection and outdoor hybridization for pollinizer determination in sweet cherry cv. Siah-Mashad, *Third International Cherry Symposium*, July 23 - 29, Norway and Denmark..
- 9- **Arzani, K.** 1998. The position of cherry culture and breeding in Iran. *International cherry breeding conference*, 17-19, Budapest, Hungary. (proceeding p. 55-64)
- 10- **Arzani, K.,** G.S. Lawes and D.E.S. Wood 1998. The future commercial application of different vigour control techniques on apricot plants under two different climatic conditions. *Int. Conf. on integrated fruit production* July 27 - August Leuven. Belgium.
- 11- **Arzani, K.** D.E.S. Wood and G.S. Lawes. 1998. Influence of first-season application of paclobutrazol, root-pruning and regulated deficit irrigation on second-season

- flowering and fruiting of mature Sundrop apricot trees. *XXV International Horticultural Congress* 2-7 August, Brussels, Belgium.
- 12- **Arzani, K.** D.E.S. Wood and G. S. Lawes 1998 Seasonal vegetative and fruit growth pattern of mature close-planted Sundrop apricot trees grown under humid climate, *XXV International Horticultural Congress* 2-7 August, Brussels, Belgium.
 - 13- **Arzani, K.**, G.S. Lawes and D.E.S. Wood 1998. The response of Sundrop apricot seedlings to the soilless culture system and exogenous cytokinin application. *XXV International Horticultural Congress* 2-7 August, Brussels, Belgium.
 - 14- **Arzani, K.**, G.S. Lawes and D.E.S. Wood 1999 The water relations of mature Sundrop apricot trees in response to different vigour control techniques. *3rd International Sym on Irrigation of Horticultural Crops*. June 28 - July 2 Lisboa Codex, Portugal.
 - 15- **Arzani, K.** and I. Argi, 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.
 - 16- **Arzani, K.** 2000 . Study on the adaptation of some Asian pear cultivars (*Pyrus serotina*) in Iran. *VIII International symposium on pear*. 5-10 September. Bologna.
 - 17- **Arzani, K.** and I. Argi, 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.
 - 18- **Arzani, K.** and T. Javady, 2000. Study of flower biology and pollen tube growth of the mature olive tree cv Zard. *4th International symposium on olive growing (OLIVE 2000)* 25-30 September, Valenzano (Bari), Italy.
 - 19- Rouzban M.R., **Arzani, K.** and Moieni A. 2001 Plant production via lateral buds of Asian pear (*Pyrus serotina* Rehd.) under *in-vitro* conditions. *The Second International Iran and Russia Conference on Agriculture and Natural Resources* 1-2 February, Moscow, Russia.
 - 20- Babalar M., Naseri L., Talaei A.R. and **Arzani, K.** 2001. Infrared and ultraviolet light injury of apple fruits. *The Second International Iran and Russia Conference on Agriculture and Natural Resources* 1-2 February, Moscow, Russia.
 - 21- Mousawi M., Taeb M., **Arzani, K.** and Kashani M. 2001. Isozyme polymorphism and peroxidase activity of Iranian date palm cultivars. *The Second International Conference on Date Palm* 25-27 March, Al-Ain, United Arab Emirates.
 - 22- **Arzani, K.**, Hokmabady, H. and Dehghani-Shouraki, Y. 2001. Effects of some carbohydrates on some qualitative and quantitative traits of pistachio (*Pistacia vera* L. cv. Kalleh-Ghoochi) nuts. *III International Symposium on Pistachios and Almonds*. 25-29 May Zaragoza, Spain.
 - 23- Javanshah, A., **Arzani, K.**, Dehghani-Shouraki, Y. and Cappellini, P. 2001. Study of pistachio flowering (*Pistacia vera* L.) cv. Ovhady. *III International Symposium on Pistachios and Almonds*. 25-29 May Zaragoza, Spain.
 - 24- Javanshah, A., **Arzani, K.** and Dehghani-Shouraki, Y. 2001. Induction of flowering delay in pistachio (*Pistacia vera* L.) for prevention of spring cold damage. *III International Symposium on Pistachios and Almonds*. 25-29 May Zaragoza, Spain.

- 25- **Arzani, K.** 2001. The position of pear breeding and culture in Iran: Introduction of some Asian pear (*Pyrus serotina* Rehd.) cultivars. *International symposium on Asian pears*. 24-29 August. Kurayoshi, Tottori, Japan.
- 26- **Arzani, K.,** Hokmabady, H. and Dehghani-Shouraki, Y. 2001. Effects of foliar application of some carbohydrates on qualitative and quantitative traits of pistachio nuts cv. Kalleh-Ghoochi. *International Symposium on Foliar Nutrition of Perennial Fruit Plants*. 11-15 September, Meran, Merano, Italy.
- 27- Naseri, L., **Arzani, K.** and Babalar, M. 2001 Foliar boron, copper and manganese uptake and concentration of apple leaves cv. Golden Delicious on M9 and B9 rootstocks. *International Symposium on Foliar Nutrition of Perennial Fruit Plants*. 11-15 September, Meran, Merano, Italy
- 28- **Arzani, K.** 2002. The effect of European pear (*Pyrus communis* L) and quince (*Cydonia oblonga* L.) seedling rootstocks on growth and performance of some Asian pear (*Pyrus serotina* Rhed) cultivars. *First International Symposium on Rootstocks for Deciduous Fruit Tree Species*. 11-14 June, 2002/ Zaragoza (Spain).
- 29- **Arzani, K.** and H. Hokmabadi 2002. Effects of boron and sodium chloride concentration on. *First International Symposium on Rootstocks for Deciduous Fruit Tree Species*. 11-14 June, 2002 / Zaragoza (Spain).
- 30- Nejatian, M.A. and **Arzani,** 2002. Effect of soluble solids content on production and quality of raisins. *XXVI Int. Hort. Congress* August 11-17, Toronto, Canada.
- 31- Nejatian, M.A. and **Arzani,** 2002. Preliminary study on the physiological reasons for almond fruit drop. *XXVI Int. Hort. Congress* August 11-17, Toronto, Canada.
- 32- Nejatian, M.A. and **Arzani,** 2002. Fruit growth and development pattern of some Iranian apricot genotypes under the Ghazvin province environmental conditions. *XXVI Int. Hort. Congress & Exhibition (IHC 2002)* August 11-17, Toronto, Canada.
- 33- Nejatian, M.A. and **Arzani,** 2002. Estimation of apricot fruit volume and fresh weight from fruit diameter. *XXVI Int. Hort. Congress* August 11-17, Toronto, Canada.
- 34- Akhlaghi Amiri, **Arzani, K.** and Ebrahimi, Y. 2002. Effect of naphthalene acetic acid (NAA) on fruit size and quality of Satsuma mandarin (*Citrus unshiu*). 3rd. *International Symposium on Sustainable Agro-Environmental Systems*. Cairo, Egypt.
- 35- Akhlaghi Amiri, **Arzani, K.** and Ebrahimi, Y. 2002. Effect of 2,4-Dichlorophenoxy acetic acid (2,4-D) on fruit size and quality of Satsuma mandarin (*Citrus unshiu*). 3rd. *International Symposium on Sustainable Agro-Environmental Systems*. Cairo, Egypt.
- 36- **Arzani, K.** 2004. Progress in the National Asian pear project: Study on the adaptation of some Asian pear (*Pyrus serotina* Rhed) cultivars under Iran environmental conditions. *IXth International Pear Symposium*. 1-6 February 2004, South Africa.
- 37- **Arzani, K.,** M.Koshesh-Saba and F. Ghanati 2004. Study on compatibility and pollen tube growth of some Asian pear (*Pyrus serotina* Rhed) cultivars. *IXth International Pear Symposium*. 1-6 February 2004, South Africa.
- 38- **Arzani, K.,** H. Khoshghalb and G. Karimzadeh 2004. Scion/rootstock influence on grafting success, early performance, tree survival and efficiency of nutrient uptake of some Asian pear (*Pyrus serotina* Rhed) cultivars. *IXth International Pear Symposium*. 1-6 February 2004, South Africa.

- 39- Torahi, A. and **Arzani, K.** 2004. Date palm fruit growth pattern study. *III International symposium of Tropical and subtropical fruits*, September 12-15, Brazil.
- 40- Arji, I. and **Arzani, K.** 2004. Effect of water stress on some biochemical changes in the leaves of five olive (*Olea europaea* L.) cultivars. *5th International symposium on olive growing* 25-30 September Izmir, Turkey.
- 41- **Arzani, K.** and Yazdani, N. 2004. The influence of drought stress and paclobutrazol on quantitative changes of proteins in olive (*Olea europaea* L.) cultivars 'Bladi' and 'Mission'. *5th Int. Symposium on olive growing*, 25-30 September, Izmir, Turkey.
- 42- Gholami, R., **Arzani, K.** and Arji, I. 2004. Effect of different irrigation amounts on vegetative growth of young potted olive cv. Manzanillo. *5th International symposium on olive growing*, 25-30 September, Izmir, Turkey.
- 43- Gholami, R., **Arzani, K.** and Arji, I. 2004. Effect of paclobutrazol (PBZ) on vegetative growth and performance of young potted olive plants cv. Manzanillo. *5th International symposium on olive growing*, 25-30 September, Izmir, Turkey.
- 44- 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.
- 45- Hokmabadi H., **K. Arzani** and B. Gheibi 2005. Growth and leaf chemical composition of three pistachio (*Pistacia vera* L.) rootstock seedlings in response to boron excess in irrigation water. *IV Int. Sym. on Pistachios & Almonds*, 22-26 May, Tehran (IRAN).
- 46- **Arzani K.**, A. Javanshah, H. Hokmabadi, Y. Dehghani-Shuraki and M. R. Roozban 2005. Pistachio (*Pistacia vera* L.) research program at Tarbiat Modarres University (TMU). *IV Int. Sym. on Pistachios & Almonds*, 22-26 May, Tehran (IRAN).
- 47- Hokmabadi H., **K. Arzani** and B. Gheibi 2005. Stable carbon isotope discrimination and ¹⁵N composition in different pistachio seedling rootstocks under Salinity stress. *IV Int. Sym. on Pistachios & Almonds*, 22-26 May, Tehran (IRAN).
- 48- Roozban M.R. and **K. Arzani** 2005. Physiological Approaches to Improve Water Use Efficiency in Pistachio Production in Iran: A Preliminary Study. *IV Int. Sym. on Pistachios & Almonds*, 22-26 May, Tehran, Iran.
- 49- **Arzani, K.** and Goharkhay, S. 2005. Self and cross compatibility studies on commercial sweet cherry cultivars in Iran. *5th Int. Cherry sym.* 10-15 June, Turkey.
- 50- Arji, I., **Arzani, K.** and Sasani, S. 2005. The influence of water deficit on pigment and chlorophyll fluorescence of olive. *XVII Int. Botanical Congress*, 17 July, Vienna, Austria.
- 51- Mortazavi, S.M.H., **Arzani, K.** and Barzegar, M. 2006. Effect of vacuum and modified atmosphere packaging on the postharvest quality and shelf life of date fruits in the khalal stage. *III Int. Date Palm Conf.* 13 August, Abu Dhabi, United Arab Emirates.
- 52- **Arzani, K.**, Wood, D.E.S. and Lawes, G.S. 2005. Influence of water stress and exogenous cytokinin application on growth and gas exchange of young 'Trevatt' apricot grown under an aeroponic system and controlled environment conditions. *Int. Conference & Exhibition on Soilless Culture (ICESC-2005)*, 5- 8 September, Singapore.

- 53- Koushesh-Saba, M., **Arzani, K.** and Jalali-Javaran, M. 2006. Evaluation of incompatibility in five European pears (*Pyrus communis* L.) cultivars using PCR. 27th International Horticultural Congress (IHC 2006) 13-19 August, Seoul, Korea.
- 54- Bouzari, N., **Arzani, K.** and Imani, A. 2006. Chilling requirements of some of the Iranian sweet cherry (*Prunus avium* L.) cultivars. 27th IHC 13-19 August, Seoul, Korea.
- 55- Bouzari, N., Ebrahimzadeh, H. and **Arzani, K.** 2006. Selection of suitable buffers and plant tissues in enzyme study of sweet cherry (*Prunus avium* L.). 27th International Horticultural Congress (IHC 2006), 13-19 August, Seoul, Korea.
- 56- Mahmoodi, M., **Arzani, K.** and Bouzari, N. 2006. Pollination, pollen tube growth and determination of the best pollinizer for sweet cherry (*Prunus avium* L.) cv. 'Red Rezaeieh'. 27th Int. Horticultural Congress (IHC 2006), 13-19 August, Seoul, Korea.
- 57- **Arzani, K.**, Kashefi, B. and Nejatian, M.A. 2006. Seasonal changes in fruit growth and development of some Asian pear (*Pyrus serotina* Rehd.) genotypes under Tehran environmental conditions. 27th Int. Hort. Congress (IHC 2006) 13-19 August, Seoul, Korea.
- 58- Javadi, T., **Arzani, K.** and Ebrahimzadeh, H. 2006. Study of proline, soluble sugar, and chlorophyll a and b changes in nine Asian and one European pear cultivar under drought stress. 27th Int. Hort. Congress (IHC 2006) 13-19 August, Seoul, Korea.
- 59- Varasteh, F., **Arzani, K.**, Zamani, Z. and Tabatabaei, S.Z. 2006. Physico-chemical seasonal changes of pomegranate (*Punica granatum* L.) fruit 'Malas-e-Torsh-e-Saveh' in Iran. 27th Int. Horticultural Congress (IHC 2006), 13-19 August, Seoul, Korea.
- 60- Khoshghalb, H., **Arzani, K.**, Malakouti, M.J. and Barzegar, M. 2006. Effect of pre- and postharvest factors on the quality and internal browning of Asian pear (*Pyrus serotina* Rehd.). 27th Int. Hort. Congress (IHC 2006), 13-19 August, Seoul, Korea.
- 61- Khoshghalb, H., **Arzani, K.** and Karimzadeh, G. 2006. Scion/rootstock interaction determines tree size, grafting success, early performance, vegetative growth and efficiency of nutrient uptake in some Asian and European pears. 27th IHC 13-19 August, Seoul, Korea.
- 62- Yadollahi, A., and **Arzani, K.** 2006. Rootstock effects on fruit quality of five cultivars of apple (*Malus domestica* Borkh) in the Damavand region of Iran. 27th International Horticultural Congress (IHC 2006) 13-19 August, Seoul, Korea.
- 63- Mahmoodi, M. and **Arzani, K.** 2006. The study of compatibility and incompatibility in some cultivars of sweet cherry with the sweet cherry cv. Shoaalsaltaneh in the field and in vitro conditions. 27th IHC 13-19 August, Seoul, Korea.
- 64- Yadollahi, A., **Arzani, K.**, Gradzil, T. and Ebadi, A. 2006. The effect of controlled pollination and pollen source on fruit set and fruit quality of almond (*Prunus amygdalus*). 27th Int. Horticultural Congress (IHC 2006), 13-19 August, Seoul, Korea.
- 65- Bouzari, N. and **Arzani, K.** 2006. Fruit doubling of sweet cherry: genotype and temperature effects. 27th Int. Hort. Congress (IHC 2006), 13-19 August, Seoul, Korea.
- 66- Bouzari, N., **Arzani, K.** and Ebrahimzadeh, H. 2006. Rest completion and chilling requirement in sweet cherry: application of protein markers. 27th International Horticultural Congress (IHC 2006) 13-19 August, Seoul, Korea.
- 67- Mortazavi, S.M.H., **Arzani, K.** and Barzegar, M. 2006. Effect of dehydration conditions on fruit quality characteristics of date fruits cv. 'Barhee' in the Rutab

- stage. *27th International Horticultural Congress (IHC 2006)* 13-19 August, Seoul, Korea.
- 68- Yadollahi, A., **Arzani, K.**, Gradzil, T. and Ebadi, A. 2006. The relation among seed genotype, germination rate and establishment of almond (*Prunus amygdalus*) seedlings. *27th Int. Horticultural Congress (IHC 2006)*, 13-19 August, Seoul, Korea.
 - 69- Akhlaghi Amiri, N., Asadi, A. and **Arzani, K.** 2006. Effect of carbohydrate on reducing alternate bearing of Satsuma Mandarin. *27th IHC* 13-19 August, Seoul, Korea.
 - 70- Asadi, A., Akhlaghi Amiri, N., Malakouti, M.J. and **Arzani, K.** 2006. Effect of irrigation methods and balanced fertilization on yield and water use efficiency of citrus in Mazandaran. *27th Int. Horticultural Congress (IHC 2006)*, 13-19 August, Seoul, Korea.
 - 71- Asadi, A., Akhlaghi Amiri, N. and **Arzani, K.** 2006. Effect of rates and application method of zinc on yield and fruit qualities of Satsuma mandarin. *27th Int. Horticultural Congress (IHC 2006)*, 13-19 August, Seoul, Korea.
 - 72- Mortazavi, S.M.H., **Arzani, K.** and Moeini, A. 2006. The effects of storage conditions on pollen viability of three male date (*Phoenix dactylifera* L.) cultivars. *27th International Horticultural Congress (IHC 2006)* 13-19 August, Seoul, Korea.
 - 73- Mortazavi, S.M.H., **Arzani, K.** and Moeini, A. 2006. The effects of some chemicals on in vitro pollen germination of three male date cultivars. *27th International Horticultural Congress (IHC 2006)* 13-19 August, Seoul, Korea.
 - 74- Yadollahi, A., **Arzani, K.**, Ebadi, A. and Gradziel, T.M. 2006. Response of Six Almond Genotypes to Water Stress. *5th International Symposium on Irrigation of Horticultural Crops*. 28 August–2 September, Mildura, Australia.
 - 75- Varasteh, F., **Arzani, K.**, Zamani, Z. and Mohseni, A. 2006. Evaluation of the most important fruit characteristics of some commercial pomegranate (*Punica granatum* L.) cultivars grown in Iran. *I International Symposium on Pomegranate and Minor Mediterranean Fruits*. October 10, Adana, Turkey.
 - 76- Razavi, F., **Arzani, K.** and Vezvaei, A. 2006. Identification of local quince genotypes (*Cydonia oblonga* Mill.) in Iran. *I International Symposium on Pomegranate and Minor Mediterranean Fruits*. October 10, Adana, Turkey
 - 77- **Arzani, K.** and Mousavi, S. 2007. Chilling requirement of some Asian pear (*Pyrus serotina* Rehd.) cultivars grown under Tehran environmental conditions. *10th International Pear Symposium*. 22-26 May, Portugal.
 - 78- Khoshghalb, H., **Arzani, K.**, Malakouti, M.J., Barzegar, M. and Tavakoli, A. 2007. Quality of some Asian pear (*Pyrus serotina* Rehd.) fruit in relation to pre-harvest CaCl₂, Zn and B sprays, harvest time, ripening and storage conditions. *10th International Pear Symposium*. 22-26 May, Portugal.
 - 79- Khoshghalb, H., **Arzani, K.**, Malakouti, M.J. and Barzegar, M. 2007. The relationship between antioxidant level and internal browning disorder in some Asian pear (*Pyrus serotina* Rehd.) fruit genotypes. *10th Int. Pear Symposium*. 22-26 May, Portugal.
 - 80- Roozban, M. R., **Arzani, K.** and Mirlatifi, S. M. 2008. Photosynthetic gas exchange of two pistachio seedling rootstocks in response to soil water deficit. *The 15th National and Third International Conference of Biology*, 19-21 August, Tehran (IRAN).

- 81- **Arzani, K.**, Khoshghalb, H., Malakouti, M.J. and Barzegar, M. 2008. Prevention of enzymatic browning of Asian pear (*Pyrus serotina* Rehd.) by some anti-browning agents. *International Symposium on Postharvest*, November 4 – 7, Berlin, Germany.
- 82- **Arzani, K.** 2008. The position of the fruit industry in Iran and the impact of climatic conditions on the yield and established orchards. 1st. *Int. Jujube Sym.* September 21-25, 2008, Baoding, China.
- 83- Akhlaghi Amiri, N., **Arzani, K.**, Malakouti, M.J. and Barzegar, M. 2008. Reducing the June drop in Thompson novel orange *Citrus sinensis*. *The 11th. International Citrus Congress*, October 26-30, Hubai, China.
- 84- Akhlaghi Amiri, N., **Arzani, K.**, Malakouti, M.J., Barzegar, M. and Asadi, A. 2008. Pre-harvest drop of Italian orange (*Citrus sinensis*) and the possibility of its reduction in northern Iran. *The 11th. International Citrus Congress*, October 26-30, Hubai, China.
- 85- **Arzani, K.** 2008. The position of the fruit and citrus industry in Iran and the impact of climatic conditions on the yield and established orchards. *The 11th. International Citrus Congress*, October 26-30, Hubei, China.
- 86- Varasteh, F., **K. Arzani**, M. Barzegar and Z. Zamani 2009. Effect of chitosan coating on the storage of pomegranate fruit. 6th. *Int. Postharvest Sym.* April 8-12, Antalya, Turkey.
- 87- Yazdani, N. and **K. Arzani** 2009. Antioxidant activities of methanol extracts in Asian pear (*Pyrus serotina* Rehd.) at different stages of maturity and effect of storage. 6th. *International Postharvest Symposium*, April 8-12, Antalya, Turkey.
- 88- **Arzani, K.**, F. Bahadori and S. Piri 2009. The response of mature peach trees to soil-applied paclobutrazol under Moghan, Iran, environmental conditions. *The 7th International Peach Symposium*, June 8-11, Lleida (Spain).
- 89- Roozban M. R. and **K. Arzani** 2009. Evaluation of a Portable Chlorophyll Meter to Estimate Chlorophyll Content in Pistachio (*Pistacia vera* L.) Leaves. 5th *International Symposium on Pistachios & Almonds*, October 06 – 10, SANLIURFA – TURKEY.
- 90- Yadollahi, A., **K. Arzani** and M. Wirthensohn 2009. Bitterness and Drought Resistance of Almond (*Prunus dulcis* Mill). 5th *International Symposium on Pistachios & Almonds*, October 06 – 10, SANLIURFA – TURKEY.
- 91- Yadollahi, A., **K. Arzani** and M. Wirthensohn 2009. Study of Different Almond Genotypes' Responses to Moderate and Severe Drought Stress for Screening Drought-Resistant Rootstocks. 5th *International Symposium on Pistachios & Almonds*, October 06 – 10, SANLIURFA – TURKEY.
- 92- **Arzani, K.** and H. Hokmabadi 2010. Growth response of two young pistachio (*Pistacia vera* L.) rootstock seedlings to Boron excess in Irrigation water under a soilless culture system. *International Conference & Exhibition on Soilless Culture (ICESC-2010)*, 8-13 March, Singapore.
- 93- Arzani, Mohsen, Asghar Alahverdizadeh and **Kazem Arzani** 2010. The position of electric energy consumption in the greenhouse industry of Iran: The importance of using sustainable green sources of energy. *International Conference & Exhibition on Soilless Culture (ICESC-2010)*, 8-13 March, Singapore.
- 94- Mousavi, M., A. Mousavi, A. A. Habashi and **K. Arzani** 2010. The first report on the genetic transformation of Date palm by particle bombardment. *Fourth International Date Palm Conference*, 15 – 17 March, Abu Dhabi, United Arab Emirates.

- 95- **Arzani, K.** 2010. National Asian Pear (*Pyrus serotina* Rehd) Project in Iran, Phase 2: Cultivars Compatibility Evaluation under the Different Geographical and Environmental Conditions (S12.089). 28th International Horticultural Congress (IHC Lisboa 2010) 22-27 August, Lisboa, Portugal.
- 96- Najafzadeh, R. and **Arzani, K.** 2010 Fruit Physicochemical Characteristics of Some European Pear (*Pyrus communis* L.) Chance Seedling Genotypes Grown under Tehran, Iran Environmental Conditions (S12.339). 28th International Horticultural Congress (IHC Lisboa 2010) 22-27 August, Lisboa, Portugal.
- 97- Roozban, M. R. and **Arzani, K.** 2010. Nutrient-Uptake Efficiency of Pistachio (*Pistacia vera* L.) Rootstocks under Soil Water Deficit. (S06.022). 28th International Horticultural Congress (IHC Lisboa 2010) 22-27 August, Lisboa, Portugal.
- 98- Akhlaghi Amiri, N., **Arzani, K.** and Asadi Kangarshahi, A. 2010. Reduction in June drop, a way to reduce losses of Satsuma mandarin (*Citrus unshiu*). 28th International Horticultural Congress (IHC Lisboa 2010) 22-27 August, Lisboa, Portugal.
- 99- Akhlaghi Amiri, N., **Arzani, K.**, Barzegar, M. and Asadi Kangarshahi, A. 2010. Physiology of pre-harvest drop in Thompson Navel orange. 28th International Horticultural Congress (IHC Lisboa 2010) 22-27 August, Lisboa, Portugal.
- 100- **Arzani, K.** 2011. The role of roots and choice of appropriate rootstocks on scion tree growth and cropping under arid and semi-arid conditions of Iran. 8th. International Workshop on Sap Flow, 8-12 May 2011, Volterra, Pisa, Italy.
- 101- Alizadeh-Salteh, S., **K. Arzani**, R. Omidbeigi, N. Safaie and P. Mohammadi 2011. Sage essential oil effect on the growth of Rhizopus rot of peaches. XVII Italian Plant Pathology Conference, 12-14 September, Bologna University, Bologna, Italy.
- 102- **Arzani, K.**, Khoshghalb, H. and Yazdani, N. 2012. Asian pear (*Pyrus serotina* Rehd) postharvest research program at Tarbiat Modares University (TMU). The 7th. Int. Postharvest Symposium (IPS2012), June 25 – 29, Kuala Lumpur, Malaysia.
- 103- Varasteh, F., **K. Arzani**, M. Barzegar and Z. Zamani. 2012. Evaluation of total antioxidant activity and total phenolics in the aril of chitosan-coated pomegranate during cold storage. The 7th. International Postharvest Symposium (IPS2012), June 25 – 29, Kuala Lumpur, Malaysia.
- 104- Yazdani, N., **K. Arzani**, Y. Mostofi and M. Shekarchi. 2012. The effect of 1-MCP on internal browning incidence of Asian pear (*Pyrus serotina* Rehd.). The 7th. Int. Postharvest Symposium (IPS2012), June 25 – 29, Kuala Lumpur, Malaysia.
- 105- Alizadeh-Salteh, S., **Arzani, K.**, Safaie, N., Omidbeigi, R. and Mohammadi, P. 2012. Savoury essential oil effect on postharvest control of Rhizopus rot on packaged peaches in polyethylene films. The 7th. Int. Postharvest Symposium (IPS2012), June 25 – 29, Kuala Lumpur, Malaysia.
- 106- Mousavi S., Hosseini Mazinani M., **Arzani K.**, Cultrera N.G.M., Baldoni L., Mariotti R. (2012). Evaluating the genetic diversity in isolated Iranian olive genotypes. The 56th Italian Society of Agricultural Genetics Annual Congress, *Perugia, Italy*.
- 107- Shojaeiyan, A., B. Gharayazi, **K. Arzani**, H. Rahimian and T. Lelley 2012. Linkage map in Iranian melon (*Cucumis melo* L) with emphasis on Fusarium wilt resistance gene. The Xth. EUCARPIA meeting on genetics and breeding of Cucurbitaceae. October 15 to 18, Antalya, Turkey (Proceedings: 514-519).

- 108- Akhlaghi Amiri N., Asadi Kangarshahi A., and **Arzani K.** 2012. Physiological investigation of the June drop in 'Thomson' navel orange (*Citrus sinensis*) in northern Iran. THE XII INTERNATIONAL CITRUS CONGRESS. 18th-23rd November, Valencia, Spain (S06P13: 102).
- 109- Asadi Kangarshahi A., Akhlaghi Amiri N. and **Arzani K.** 2012. Reducing the alternate bearing index in Satsuma mandarin by nitrogen management and pruning in northern Iran. THE XII INTERNATIONAL CITRUS CONGRESS. 18th-23rd November, Valencia, Spain (S06P14: 102).
- 110- Roozban M.R. and **K. Arzani** 2013. Comparing Three Iranian Pistachio (*Pistacia vera* L.) Rootstocks Regarding Drought Tolerance. VI Int. Sym. on Almonds & Pistachios, 27-31 May, Murcia, Spain (PS-9:143).
- 111- Sarikhani Khorami S., **K. Arzani** and M. R. Roozban 2013. Correlations of Certain High-Heritability Horticultural Traits in Persian Walnut (*Juglans regia* L.). The VII International Walnut Symposium, 20-23 July, Fenyang, China.
- 112- Shojaeian, A., B. Gharayazi, **K. Arzani**, H. Rahimian and T. Lelley 2012. Linkage map in Iranian melon (*Cucumis melo* L) with emphasis on Fusarium wilt resistance gene. The Xth. EUCARPIA meeting on genetics and breeding of Cucurbitaceae. October 15 to 18, Antalya, Turkey (Proceedings: 514-519).
- 113- Nikzad Gharehaghaji A., H. Abdollahi, **K. Arzani**, A. Shojaeiyan, L. Dondini and P. D. Franceschi 2013. Contribution of Western and Eastern species to the Iranian pear germplasm revealed by the characterization of S-genotypes. International Symposium on Fruit Culture and its Traditional Knowledge along the Silk Road Countries, 4 to 8 November, Armenia.
- 114- Nikzad Gharehaghaji A., **K. Arzani**, H. Abdollahi, A. Shojaeiyan, P. D. Franceschi and L. Dondini 2013. Chloroplast Genome Diversity of the *Pyrus* Genus; from Iranian & European Wild Pear Species to the Cultivated Cultivars. International Symposium on Fruit Culture and its Traditional Knowledge along Silk Road Countries. 4 to 8 November, Armenia.
- 115- **Arzani, K.** 2013. Fruit trees physiology and breeding programs research using microscopic technology at Tarbiat Modares University (TMU), Iran. International Multidisciplinary Microscopy Congress - INTERM 2013, October 10-13, Antalya, Turkey.
- 116- Hakimnejad S., **Arzani K.** and Nejatian M.A. 2014. Study on seventeen famous Grape cultivars (*Vitis vinifera*) in the North West of Iran. *IXXX International Horticultural Congress (IHC 2014)* 17-22 August 2014 Brisbane, Australia (Accepted).
- 117- **Arzani, K.** and Hakimnejad, S. 2014. Preliminary evaluation of some grape cultivars (*Vitis vinifera*) grown in the Tarbiat Modares University (TMU) collection orchard. *The 11th International Conference on Grapevine Breeding and Genetics*, 28 July to 2 August 2014, Beijing, China. Abstract book: 219-220.
- 118- **Arzani K.** 2015. The Impact of Environmental Change and Conditions on Fruit Trees Germplasm and Yield of Established Orchards in Iran. *The III World Biodiversity Congress (WBC2015)*, October 20-29, Mecavnik – Mokra Gora, Serbia www.wbc2015.in Abstract book: 40.

- 119- **Arzani Kazem** and E. Fallahi 2016. Iran Horticulture Potential: A Great Opportunity for Current and Future International Collaborations. *ASHS-2016 Annual Conference* - August 8-11, Atlanta, Georgia 30303, USA <https://ashs.confex.com/ashs/2016/webprogram/Paper23963.html>
- 120- **Arzani Kazem**, Christopher B. Watkins and Jacqueline F. Nock, 2016. I_{AD} values in Relation to Internal Ethylene Concentrations in 'Delicious' Apple Fruit Harvested from Trees Treated with Retain and Harvista. *ASHS-2016 Annual Conference* - August 8-11, Atlanta, Georgia 30303, USA <https://ashs.confex.com/ashs/2016/webprogram/Paper24089.html>
- 121- **Arzani Kazem**, Jacqueline F. Nock and Christopher B. Watkins 2016. Watercore Incidence in 'Red Delicious' Apple in Relation to I_{AD} values: Effect of Harvest Date, and Harvista and ReTain Applications. *ASHS-2016 Annual Conference* - August 8-11, Atlanta, Georgia 30303, USA <https://ashs.confex.com/ashs/2016/webprogram/Paper24484.html>
- 122- **Mohammad Kavand; Kazem Arzani; Mohsen Barzegar and Majid Mirlatifi** (2017). Orchard management for reducing the pomegranate aril browning disorder. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, Page: 63.
- 123- **Aziz Torahi, Kazem Arzani and Noorollah Moallemi** (2017). Dust impact on date palm (*Phoenix dactylifera* L.) fruit set. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, O-32 (29) Page: 79.
- 124- **Saadat Sarikhani Khorami and Kazem Arzani** (2017). LATE LEAFING FABAAG1 PERSIAN WALNUT (*JUGLANS REGIA* L.) Promising genotype as the new selection from Tarbiat Modares University fruit trees breeding program. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, O-61 (198) Page: 108.
- 125- **Kazem Arzani** (2017). The potential and limiting environmental conditions on fruit trees germplasm and yield of established orchards in Iran. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, O-63(216) Page: 110.
- 126- **Massume Karbasi and Kazem Arzani** (2017). Asian and European pear scion-rootstock interactions and Pyrodwarf rootstock root growth and distribution. *First International Horticultural Science Conference of Iran (IrHC2017)*, Sept. 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-21 (135)Page: 144.
- 127- **Elaheh Taghigozari, Kazem Arzani and Abbass Yaddollahi** (2017). Propagation of A95 promising EUROPEAN pear (*Pyrus communis* L.) genotype by micropropagation and late summer budding. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-25 (168) Page: 148.
- 128- **Morteza Ebtedaei, Kazem Arzani and Saadat Sarikhani Khorami** (2017). Evaluation of three European pear (*Pyrus communis* L.) cultivars and genotype chilling requirements under controlled environment conditions. *First International*

- Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-26 (214) Page: 149.
- 129-** Behnaz Karimi, **Kazem Arzani** and Majid Pedram (2017). Top to root ratio and dry matter partitioning in some mature olive (*Olea europaea* L.) trees in relation to the root volume and possible existence of harmful nematodes in the soil. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, Page: 150.
- 130-** Saeedeh Fallah Barzaki, **Kazem Arzani** and Naser Bouzari (2017). Preliminary assessment of genetic diversity of mature apricot (*Prunus armeniaca* L.) genotypes grown under Kashan environmental conditions. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-58 (177) Page: 183.
- 131-** Ali Rezaei, **Kazem Arzani**, Saadat Sarikhani Khorami (2017). Preliminary assessment of genetic diversity of mature walnut (*Juglans regia* L.) genotypes in the North of Hamadan province, IRAN. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-59 (178) Page: 184.
- 132-** Somayeh Kadkhodaei, **Kazem Arzani**, Abbas Yadollahi and Ghasem Karimzadeh (2017). Preliminary assessment of cytological characters of two European pears (*Pyrus communis* L.) cultivars. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-63 (200) Page: 188.
- 133-** Saadat Sarikhani Khorami, **Kazem Arzani**, Ghasem Karimzadeh and Abdolali Shojaeiyan (2017). Cytological evaluation of some superior Persian walnut (*Juglans regia* L.) genotypes in the Bavanat region of North of Fars province, Iran. *First International Horticultural Science Conference of Iran (IrHC2017)*, Sept. 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-65 (208) Page: 190.
- 134-** **Kazem Arzani** (2017). The national Asian pear (*Pyrus Serotina* Rehd.) project in Iran: compatibility and commercial studies of introduced cultivars. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-67 (215) Page: 192.
- 135-** Mostafa Ghasemi, **Kazem Arzani**, Abbas Yadollahi, Hossein Hokmabadi and Robert D. Guy (2017). Identification of some drought resistance mechanisms in four seedling rootstocks under water stress. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-77 (68) Page: 204.
- 136-** Bahman Fattahi, **Kazem Arzani**, Mohammad Kazem Souri and Mohsen Barzegar (2017). Effect of cadmium and lead stress on the chlorophyll fluorescence and chlorophyll pigments in *Ocimum basilicum* L. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-98 (189) Page: 225.
- 137-** Khadijeh Jalili, **Kazem Arzani** and Naser Bouzari (2017). Preliminary morpho-physiological evaluation of some cherry rootstocks in response to drought conditions. *First International Horticultural Science Conference of Iran (IrHC2017)*,

- September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-102 (202) Page: 229.
- 138-** Mohammad Kavand, **Kazem Arzani**, Mohsen Barzegar and Majed Mirlatifi (2017). Identification of the tolerant pomegranate genotypes for the aril browning or aril paleness disorder. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-132 (73) Page: 264.
- 139-** **Kazem Arzani**, Jacqueline F. Nock and Christopher B. Watkins (2017). Non-destructive 'Delicious' apple fruit assessments for watercore using DA meter in response to harvest date, and Harvista and Retain applications. *First International Horticultural Science Conference of Iran (IrHC2017)*, September 4-7, Tarbiat Modares University (TMU), Tehran, Iran, Abstracts Book, P-153 (265) Page: 285.
- 140-** Christopher B Watkins, Yosef Al Shoffe, **Kazem Arzani**, J. F. Nock, Gunes N., Ayes Tulin OZ and Zhang Y. 2017. Using the DA meter to explore relationships between apple fruit maturity and physiological disorder incidence. VI Postharvest Unlimited-ISHS international conference, 17-20 October, Madrid- Spain.
- 141-** **Kazem Arzani** 2018. The onset of controlled hybridization, pollination studies and the history of pollinizer application in the commercial fruit tree orchards in Iran. *5th. International Symposium on Plant Genetic Resources &XXX International Horticultural Congress*, 12 – 16 August 2018, Istanbul – Turkey (Abstract S1 – Pages 16-17).

PAPERS PRESENTED IN THE NATIONAL CONFERENCES

More than 250 papers were presented at the national and regional symposiums and conferences. Details of national symposiums appear in the following link under the Farsi TMU website https://pro.modares.ac.ir/~arzani_k

ALSO, SOME RELATED INFORMATION IS AVAILABLE IN:

Scopus (*h*-index 22), ResearchGate (*h*-index 29), Google Scholar (*h*-index 34; i10-index 92, Citations 4173), LinkedIn, etc.

Google Scholar: <https://scholar.google.com/citations?user=4jz-HzAAAAAJ&hl=en>

Research Gate: https://www.researchgate.net/profile/Kazem_Arzani

LinkedIn: <https://ir.linkedin.com/in/kazem-arzani-a7441137>

ORCID: <https://orcid.org/0000-0002-9434-2938>

Scopus Author ID: 55918530400

Web of Science Researcher ID: AAL-3599-2021

TMU: https://pro.modares.ac.ir/~arzani_k

Arzani Kazem 1987.

*The First Controlled Hybridization & Applied Pollination
Technology in Sweet Cherry cv. 'Siah Mashad' in Iran.*

