

Curriculum Vitae

Kazem Arzani (Ph.D.)

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. **Ph.D.:** Horticulture (Pomology & Fruit Trees Physiology), Massey University, New Zealand, 1994
Ph.D. 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 of Center for Agricultural Educations, Karaj 1986-1989.

COURSES TAUGHT

1. Physiology of rootstocks for fruit trees; Physiology of flowering; Fruit growth and development; Physiology of growth and productivity (Ph.D. 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 Ph.D. students were supervised. More detail appeared in Persian in the following link: http://www.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.** 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)
2. **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).
3. **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).
4. **Arzani, K.** 2013. New research in Horticultural Science. A Keynote Speech in the 8th Iranian Horticultural Science Congress. 26th. August, Hamadan University, Iran.
5. **Arzani, K.** 2013. Effective and new research based on the position of Iranian Horticultural Science. *Baghdar Magazine*, 75: 3-6 (In Farsi).
6. **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).

7. **Arzani, K.** 2019. Horticulture, Research, Education and Development -A Persian Interview. Charbagh, A Quarterly Scientific Magazine, 1 (2):14-17 (In Farsi).
8. **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.
9. **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.
10. **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.

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 suitable strategy and structure 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 National Agricultural Research Projects Advisory Committee
8. Head of Agriculture Office and Centers for Agricultural Services and Extension in Eghlid city (Fars province, Shiraz) 1983-1986.
9. Head of 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 Ph.D. thesis Examination Committee at the Faculty of Agriculture, TMU, and for many graduated Ph.D. students at the Department of Horticulture, University of Tehran, University of Tabriz, and IAU, Iran.
2. Member of Ph.D. Comprehensive Examination Committee at the Faculty of Agriculture, TMU, and some of the students at Shiraz University.
3. Education Committee member at Faculty of Agriculture and TMU 2011-2012.
4. Scientific committee member and session chair in many regional and national Horticultural Symposiums, conferences, and Congress 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 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 Committees member of IrHC2017.
13. Scientific Committee member of IHC2018 in Turkey.
14. Member of Fifth, Tarbiat Modares University Academic Promotion Board and also, Sixth, Agriculture Academic Promotion Board Committee.
15. Member of the University of Agricultural Science and Natural Resources of Khusestan (Ahvaz), Academic Promotion Board (From August 2017 to November 2021).
16. Member of Tarbiat Modares University Publication Board (Since September 2018).
17. Member of Agriculture, Water and Natural Science Commission of ATF Higher Board at 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 journals review lists appeared in the ORCID link at: <https://orcid.org/0000-0002-9434-2938>

Also, more detail has appeared in Persian in the following link:

http://www.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 EXTENTION 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 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 matrix 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 in order to screen 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., **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 H. A., K. Arzani and A. Shojaeian 2012. Investigation on 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 Tolerating. 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**, Esmail 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 Characteristic of some Olive Cultivars grown under 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 Chemistry*166: 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. *Photosynthetica*53(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.
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Linkden: <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

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