

Curriculum vitae

Maryam Atapour

Personal Information

First Name: Maryam

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Nationality: Iranian

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Web of Science Researcher ID: ABC-4809-2020

Current positions

- **Assistant professor.** Department of Plant Production and Protection, Agriculture Research Institute, Iranian Organization Research Science and Technology, Tehran, Iran. PO Box 33535111.
- **Head of Library, Publishing and Documentation Center.** Iranian Organization Research Science and Technology.

Educational Background

Ph.D. in Agricultural Engineering- Entomology, Insect physiology, 2007 - 2011 (GPA: 18.37, rang 0-20).

Project: Cold Hardiness Physiology of the beet armyworm, *Spodoptera exigua* (Lep: Noctuidae)

Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, PO Box: 14115-336, Tehran, Iran.

M.Sc. in Agricultural Engineering – Entomology, Insect physiology, 2004- 2006 (GPA: 19.04, rang 0-20).

Project: Overwintering Physiology of the Rice Stem Borer, *Chilo suppressalis* (Lep: Pyralidae).

Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, PO Box: 14115-336, Tehran, Iran.

B.Sc. in Agricultural Engineering –Plant protection, 2000 – 2004 (GPA: 17.35, rang 0-20).

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Project: The mechanism of pest resistance to *Bacillus thuringiensis*.

Department of Plant protection. Faculty of Agriculture. University of Guilan. Rasht. Iran.

Projects

- Cold hardiness and over-wintering conditions of two important pest species of oak forest to reduce their population and damages. (Role: Main Investigator, Funding Org: International Scientific Cooperation Center of the Ministry of Science, Research and Technology of Iran. 2023 until now)
- Evaluation of the effects of emulsions of absinthe and thyme essential oils and extracts on pests. (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2020- 2022).
- Extraction of cell membranes fatty acids of Lime butterfly, *Papilio demoleus* under low temperature stresses. (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2018 -2020).
- Fumigant toxicity of *Artemisia absinthium* on two stored-product pests. (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology.2016-2017).
- Control of Citrus Leafminer, *Phyllocnistis citrella* (Lep: Gracillariidae) as the Major Pest of Citrus nurseries and Young Orchards Using Sterile Insect Technique (SIT). (Role: Main Investigator, Funding Org: Iran National Science Foundation [INSF]. 2014 until now).
- Effect of different formulations on the basis of essential oils to produce a product suitable for storage pest control (Role: Main Investigator, Funding Org: Barij Essence Pharmaceutical. 2014-2016).
- Mass rearing optimization of beneficial insect for biological control. (Role: Main Investigator, Funding Org: Dashte Naz Co. 2014-2016).
- Insecticidal effects of essential oil of *Ajuga chamaecistus* on *Oryzaephilus surinamensis* in laboratory condition. (Role: Main Investigator, Funding Org: Islamic Azad University of Shahre-Gods. 2014-2015).
- Cold hardiness process of large white butterfly, *Pieris brassicae* (Lep: Pyralidae) and its integrated pest management in Iran (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2013-2014).
- The use of Iranian diatoms soil protection against stored pests of grain (Role: Assistant, Funding Org: Iran National Science Foundation [INSF]. 2014- 2016).
- Evaluation of using sterile insect technique for controlling of European corn borer, *Ostrinia nubilalis* (Lep: Pyralidae). (Role: Assistant, Funding Org: Iran National Science Foundation [INSF]. 2015 -2018).

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- Integrated pest management of oilseeds (Role: Assistant, Funding Org: Tarbiat Modares University. 2009-2011).
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Awards and Honors

- **2001 and 2002:** 1st Ranked Student in Plant Protection at Guilan University, Faculty of Agriculture.
- **2004:** Ranked 8th at the M. Sc. General Entrance Exam held by Ministry of Science, Research and Technology of Iran.
- **2006:** 1st Ranked Student in Entomology in M. Sc. at Tarbiat Modares University, Tehran, Iran.
- **2006:** 1st Ranked at Ph. D. Entrance Exam of Tarbiat Modares University, Tehran, Iran.
- **2011:** 1st Ranked Student in Entomology in Ph. D. at Tarbiat Modares University, Tehran, Iran.

Publications

Books

- Overwintering and Diapause in Insects and its Application in Pest Management. 2021. Atapour, M. and Moharramipour, S. Iranian Organization for Science and Technology Publication. 182 pp.

Journals

1. **Atapour, M.** 2024. Physiological adaptations to increase survival in the lime butterfly, *Papilio demoleus* L. (Lep: Papilionidae). Journal of Agricultural Science and Technology. (Submitted)
2. Nazarahari, M., Sadeghi, R., **Atapour, M.**, Jamshidnia, M. and Ebadollahi, A. 2024. Insecticidal Effects of the Extracts and Wettable Powder Formulations of Eucalyptus and Thyme on Cotton Bollworm, *Helicoverpa Armigera* (Hübner)(Lepidoptera: Noctuidae). Entomological news: 131 (5):233-253.
3. Osouli, Sh., **Atapour, M.** and Ahmadi, M. 2023. Effect of gamma irradiation on F1 generation and competitive ability of *Phyllocnistis citrella* Stainton (Lep: Gracillariidae) and *Ostrinia nubilalis* Hubner (Lep: Crambidae) and evaluation of sterile insect releasing ratio on plant infestation under field cage conditions. Entomologia Experimentalis et Applicata. 171(6): 475-486.
4. **Atapour, M.**, Abbaszadeh, R. and Kashi, E. 2022. Optimization of a New Technique in Mass-Rearing of Insects Used in Biological Control of Important Pests. Agrotechniques in Industrial Crops: 2(3): 131-139.
5. **Atapour, M.** and Osouli, Sh. 2021. Effect of Different Temperatures and Hosts on Biology of the European Corn Borer, *Ostrinia nubilalis* in Laboratory Conditions. Journal of Agricultural Science and Technology. 23(4): 865-876.

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6. Osouli, Sh., **Atapour, M.** and Ahmadi, M. 2020. Effect of gamma radiation on the biology and inherited sterility in European corn borer *Ostrinia nubilalis* Hubner (Lep: Crambidae). Applied Radiation and Isotopes. 160: 109096.
7. **Atapour, M.** and Osouli, Sh. 2019. Investigation of the Biology and Infestation of the Citrus Leafminer (Lepidoptera: Gracillariidae) on Four Different Hosts. Canadian Entomologist, 151: 329-339.
8. **Atapour, M.** 2018. Changes of respiration rate and fatty acid composition of pupae of the large cabbage white, *Pieris brassicae* (Lepidoptera: Pieridae) during winter. Journal of Entomological Society of Iran, 38 (3): 319-323.
9. Shokri, sh., Osouli, Sh., **Atapour, M.**, and Imani, S. 2018. Evaluation of Sterile Insect Technique for Controlling of Diamondback moth *Plutella xylostella*. Applied Researches in Plant Protection, 7(3): 19-29.
10. Osouli, Sh. and **Atapour, M.** 2018. Effects of gamma radiation on the Biology, reproduction and mating competitiveness of Citrus leaf miner *phyllocnistis citrella* Stainton. Journal of Asia Pacific Entomology.21: 301-308.
11. Ziaee, M., **Atapour, M.** and Marouf A. 2018. Persistence and efficacy of four Iranian diatomaceous earths against three stored grains beetles. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences , 88 (1): 411-419.
12. **Atapour, M.** 2017. Cryoprotectants in Lab-reared and Overwintering Pupae of Large Cabbage White, *Pieris brassicae* (Lepidoptera: Pieridae). Iranian Journal of Plant Protection Science, 48 (1): 139-150.
13. **Atapour, M.**, Bolandnazar. A. and Memarzadeh, M.R. 2017. Insecticidal effects of stick formulation of five medicine plants essential oils against sawtoothed grain beetle, *Oryzaephilus surinamensis* and the khapra beetle, *Trogoderma granarium*. Plant Pest Research, 7(1): 29-42.
14. **Atapour, M.** and Osouli, Sh. 2017. The Effect of Different Temperatures on Biology of Citrus Leafminer, *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) in Lab-condition. Journal of the Entomological Research Society, 37 (2): 223-234.
15. Mohammadi Bazrgani, M. and **Atapour, M.** 2017. Comparative analysis of different extracts of *Ajuga chamaecistus* ssp. *scoparia* on antibacterial activity". Journal of Essential Oil Bearing Plants, 20 (4): 1117 – 1124.
16. **Atapour, M.** 2016. Overwintering and cold tolerance in pupae of large cabbage white, *Pieris brassicae* (Lepidoptera: Pieridae) in Iran. Iranian Journal of Plant Protection Science, 46(2): 269-276.
17. Ziaee, M., **Atapour, M.** and Marouf A. 2016. The insecticidal efficacy of Iranian diatomaceous earth deposits against adults of *Callosobruchus maculatus* F. (Coleoptera: Chrysomelidae). Plant Protection, 39 (3): 51-61
18. Ziaee, M., **Atapour, M.** and Marouf A. 2016. Insecticide Effectiveness of Iranian Diatomaceous Earths on Adults of *Oryzaephilus surinamensis* . Journal of Agricultural Science and Technology, 18:361-370.
19. **Atapour, M.** and Moharramipour, S. 2014. Cold Hardiness Process of Beet Armyworm Larvae *Spodoptera exigua* (Lepidoptera: Noctuidae). Journal of Crop Protection, 3 (2): 147-158.

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20. **Atapour, M.** and Moharramipour, S. 2011. Association of Cold Acclimation with Freezing Tolerance in the Beet Armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). Applied Entomology and Phytopathology. 79 (2): 219-235. (In Persian with English Abstract).
21. **Atapour, M.** and Moharramipour, S. 2011. Changes in Supercooling Point and Glycogen Reserves in Overwintering and Lab-Reared Samples of Beet Armyworm, *Spodoptera exigua* (Hübner) (Lepidoptera: Nuctoidae) to Determining of Cold Hardiness Strategy. Applied Entomology and Phytopathology. 78 (2): 199-216. (In Persian with English Abstract).
22. **Atapour, M.** Moharramipour, S. and Barzegar, M. 2011. Changes of Cryoprotectants in Overwintering Larvae of Beet Armyworm, *Spodoptera exigua* (Hübner) (Lepidoptera: Noctuidae). Journal of Entomological Society of Iran. 31 (2): 33-50. (In Persian with English Abstract).
23. Saeedi, F., Moharramipour, S. and **Atapour, M.** 2011. Changes of Supercooling Point and Chill Tolerance in Overwintering Adults of Cabbage Aphid, *Brevicorine brassicae* (L.). Journal of Entomological Society of Iran. 31 (2): 79-91. (In Persian with English Abstract).
24. Soudi, Sh., Moharramipour, S. and **Atapour, M.** 2011. Cryoprotectant contents of Overwintering Adults of Elm Leaf Beetle, *Xanthogaleruca luteola* (Coleoptera: Chrysomelidae). Journal of Entomological Society of Iran. 31 (2): 17-32. (In Persian with English Abstract).
25. **Atapour, M.** and Moharramipour, S. 2009. Changes of Cold hardiness, Supercooling Capacity and Major Cryoprotectants in Overwintering Larvae of Rice Stem Borer, *Chilo suppressalis* Walker (Lep: Pyralidae). Environmental Entomology, 38(1): 260-265.
26. **Atapour, M.** and Moharramipour, S. 2008. Cold-hardiness Strategy of Diapausing Larvae of the Rice Stem Borer, *Chilo suppressalis* in Iran. Environmental Science, 4(4): 89-98. [In Persian with English Abstract].
27. **Atapour, M.**, Moharramipour, S. Barzegar, M. and Khani, A. 2008. Some Cryoprotectants in Overwintering Larvae of the Rice Stem Borer, *Chilo suppressalis* in North Part of Iran. Applied Entomology and Phytopathology, 75 (2): 27- 38. [In Persian with English abstract].
28. **Atapour, M.**, Moharramipour, S. and Barzegar, M. 2007. Seasonal Changes of Fatty acid Compositions in Overwintering Larvae of Rice Stem Borer, *Chilo suppressalis* (Lepidoptera: Pyralidae). Journal of Asia- Pacific Entomology, 10 (1): 33 - 38.

Congresses:

- Rezaei, M, Mehrabadi ,M., Talebi, A.A. and **Atapour, M.** 2024. Impact of host species on some biological traits of *Compsilura concinnata* (Diptera: Tachinidae). 25th Iranian Plant Protection Congress, Tehran, Iran.
- Rezaei, M, Mehrabadi ,M., Talebi, A.A. and **Atapour, M.** 2024. Behavioral traits of the parasitoid fly *Compsilura concinnata* (Diptera: Tachinidae) on two host species in laboratory conditions. 25th Iranian Plant Protection Congress, Tehran, Iran.

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- Nazarahari, M., Sadeghi, R. **Atapour, M.** and Jamshidnia, A.2024. Insecticidal Effects of applied Formulations of Thymus spp. and Eucalyptus spp. Plant Extracts on Cotton Bollworm, *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae). 25th Iranian Plant Protection Congress, Tehran, Iran.
- **Atapour, M.** 2023. Investigating the supercooling points of overwintering larvae of acorn weevil, *Curculio glandium* Marsham (Col: Curculionidae). The third national conference of protection of Iran's forests and pastures, Tehran, Iran.
- **Atapour, M.** 2023. Overwintering conditions in the beech moth, *Cydia fagiglandana* (Zeller) (Lep: Tortricidae). The third national conference of protection of Iran's forests and pastures, Tehran, Iran.
- Rezaei, M, Moharrampour,S. and **Atapour, M.** 2023. Fumigant toxicity of three essential oils against an important storedproduct pest. 4th International and 29th National Iranian Food Science and Technology Congress, Tehran, Iran
- Nazarahari, M., **Atapour, M.** Sadeghi, r. and Jamshidnia, A.2023. Insecticidal effects of the wetttable powder formulations of plant extracts on cotton bollworm, *Helicoverpa armigera*(Hübner)(Lep., Noctuidae), 4th IranianInternational Congress of Entomology(IICE4), Kermanshah, Iran.
- **Atapour, M.** 2022. Investigation of ice-nucleation active bacteria in overwintering pupae of lime butterfly, *Papilio demoleus* (Lep: Papilionidae) and their potential role in biological control of this pest. 1st International and 10th National Congress on Biological Control in Agriculture and Natural Resources, Ahvaz, Iran.
- **Atapour, M.** and Abbaszadeh, R. 2022. Implementation, simulation and evaluation of an automated moth collection method in biological control of pests based on air flow. 1st International and 10th National Congress on Biological Control in Agriculture and Natural Resources, Ahvaz, Iran.
- **Atapour, M.** 2019. Granular formulation of essential oil of wormwood, *Artemisia absinthium* against four stored-product pests. 3rd Iranian International Congress of Entomology, Tabriz, Iran.
- Osouli, Sh., **Atapour, M.** and Ahmadi, M. 2019. Effects of gamma irradiation on the reproduction biology of European corn borer *Ostrinia nubilalis* Hübner (Lep: Pyralidae). 3rd Iranian International Congress of Entomology, Tabriz, Iran.
- **Atapour, M.**, Osouli, Sh. and Ahmadi, M. 2018. Biology of the European corn borer *Ostrinia nubilalis* (Hübner) (Lep.: Crambidae) on natural and semi-artificial diets under laboratory conditions. 23th Iranian Plant Protection Congress, Gorgan, Iran.
- Sodagari, K., Osouli, Sh., Tirgari, S. and **Atapour, M.** 2018. Interaction effect of gamma radiation and essential oil of *Thymus vulgaris* on biology of *Plodia interpunctella* (Hubner) (Pyralidae, Lepidoptera). 23th Iranian Plant Protection Congress, Gorgan, Iran.
- Osouli, Sh., Ahmadi, M., Kalantarian, N. and **Atapour, M.** 2018. A comparison of artificial diet for the rearing of *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) based on biological characteristics. 23th Iranian Plant Protection Congress, Gorgan, Iran.
- **Atapour, M.** 2018. Antifeedant activity and durability of essential oil of *Pelargonium graveolens* on the larvae of Indian-meal moth, *Plodia interpunctella*. International conference on Agricultural Science, Medicinal Plants and Traditional medicine. Mashhad, Iran.

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- Osouli, Sh., **Atapour, M.**, Ahmadi, M. and Shokri, sh. 2017. Mass rearing and Effects of Gamma Irradiation on the Pupal Mortality and Reproduction of Citrus Leaf Miner *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae). 19th International Conference on Entomology, Paris, France.
- Azarnoush, M. **Atapour, M.** and Imani, S. Insecticidal Activity of the Essential Oils of *Mentha piperita* and *Thymus vulgaris* against three Stored- product Pests.2017. 6th National Congress on Medicinal Plants, Tehran, Iran.
- Shizadi, S., **Atapour, M.** and Imani, S. Fumigant Toxicity of Essential Oils OF *Heracleum persicum* and *H. antaciaticum* on Two Stored- product Pests .2017. 6th National Congress on Medicinal Plants, Tehran, Iran.
- **Atapour, M.** and Osouli, Sh. 2016. Biology of Citrus Leafminer, *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) in Laboratory Conditions. 22th Iranian Plant Protection Congress, Tehran, Iran.
- Osouli, Sh. and **Atapour, M.** 2016. Evaluating of gamma radiation on biological and reproductive characteristics of citrus leaf miner *Phyllocnistis citrella* (Lepidoptera: Gracillariidae). 22th Iranian Plant Protection Congress, Tehran, Iran.
- **Atapour, M.** and Tafaghodinia, B. 2016. Investigation of Wing Scale Size in Angoumois grain moth, *Sitotroga cerealella* (Lep: Gelechiidae) and Determination the Type of Suitable Respirator for Use in Insectarium. 3rd National meeting on biocontrol in agriculture and national resources of Iran, Feb 2-3, Mashhad, Iran.
- Azarnoush, M., **Atapour, M.** and Imani, S. 2015. Different formulations of plant components against pests. 4th Conference of medical plants and sustainable agriculture. Dec 17, Hamadan, Iran
- Shirzadi, S., **Atapour, M.** and Imani, S. 2015. Slow-release components of essential oils for plant pests control. 4th Conference of medical plants and sustainable agriculture. Dec 17, Hamadan, Iran.
- **Atapour, M.** and Osouli, Sh. 2015. Study of Metabolic Quiescent of Overwintering Pupae of Large Cabbage White, *Pieris brassicae* (Lepidoptera: Pyralidae) by Measuring Respiratory Gases. Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- **Atapour, M.**, Ziaee, M., Osouli, Sh. and Gholampour, M. 2015. The Essential Oil Composition of *Ajuga chamaecistus* and Its Insecticidal Effects on the Sawtoothed Grain Beetle, *Oryzaephilus surinamensis* (Col: Silvanidae). Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- Osouli, Sh., Afsharmanesh, H. and **Atapour, M.** 2015. Evaluation of biosurfactants effects of *Bacillus subtilis* UTB1 and mutant M419 induced by gamma irradiation against lime swallowtail *Papilio demoleus* L. (Lep: Papilionidae). Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- Ziaee, M., Marouf, A. and **Atapour, M.** 2015. Insecticidal efficacy of Iranian diatomaceous earths against adults of *Sitophilus oryzae*. Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- **Atapour, M.**, S. Moharramipour and Osouli, Sh .2014. Cryoprotectants of overwintering pupae of large cabbage butterfly, *Pieris brassicae* (Lep: Pieridae). 21th Iranian Plant Protection Congress, Urmia, Iran. P. 548.

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- **Atapour, M.,** S. Moharramipour and Osouli, Sh .2014. Changes of membrane fatty acids in overwintering pupae of large cabbage butterfly, *Pieris brassicae* (Lep: Pieridae). 21th Iranian Plant Protection Congress, Urmia, Iran. P. 672.
- **Atapour, M.,** S. Moharramipour .2014. The Role of the Studies on Physiology of Overwintering in Pest Management.3th Insect Pest Management Conference, Kerman, Iran.
- **Atapour, M.,** S. Moharramipour .2014. The Importance of Cryoprotectants of Large Cabbage Butterfly Overwintering Pupae in This Pest Management. 3th Insect Pest Management Conference, Kerman, Iran.
- Osouli, Sh., Haddad Irani Nejad1, K., Ziaie, F., Moghaddam, M. and **Atapour, M.**2014. Application of Gamma Irradiation on all developmental Stages of *Tetranychus Urticae* Koch as a Quarantine Treatment of Cut Flowers and ornamentals. 21th Iranian Plant Protection Congress, Urmia, Iran. P. 1025.
- Osouli, Sh., Haddad Irani Nejad1, K., Ziaie, F., Moghaddam, M. and **Atapour, M.**2014. Study of suggested quarantine dose of 350 Gy on Two-spotted spider mite, *Tetranychus Urticae* Koch and vase life of gladiolus cut flowers. 21th Iranian Plant Protection Congress, Urmia, Iran. P. 1026.
- Mohammadi Bazargani, M. and **Atapour, M.** 2014. The in vitro antibacterial activities of essential oil and different solvent extracts of *Ajuga chamaecistus*. 1st international and 13th Iranian crop science congress. Karaj, Iran. 1-4.
- **Atapour, M.** 2014. Relationship between trehalose and diapase in overwintering pupae of large cabbage butterfly, *Pieris brassicae* (Lep: Pyralidae). National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. Antifreeze Proteins and their use in agriculture and other industries. National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. Diapause hormones in insects and their importance in pest management. National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. The role of cell membrane lipids and fatty acids in overwintering insects. National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. The use of insect pheromones in integrated pest management and their environmental benefits. National Conference on Environment, Energy and Biodefense. Tehran, Iran.
- **Atapour, M.** and Mohammadi Bazargani, M. 2014. Pest resistance to pesticides and their impact on the environment and biological defense. National Conference on Environment, Energy and Biodefense. Tehran, Iran.
- **Atapour, M.,** S. Moharramipour .2012. Changes in cell membrane fatty acid compositions in overwintering pupae of the beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 441. P. 810.
- **Atapour, M.,** S. Moharramipour .2012. Metabolic depression in overwintering pupae of the beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 441. P. 811.

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- **Atapour, M.,** Moharramipour, S., Barzegar, M. and. Hosseinkhani, S. 2010. Determination of sugars and polyols in lab-reared and overwintering larvae of beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). European Congress of Entomology, Budapest, 22-27 August, 2010.
- **Atapour, M.,** S. Moharramipour 2010. Cold hardiness strategy in the overwintering Pupae of beet armyworm, *Spodoptera exigua* (Lep: Noctuidae). 19th Iranian Plant Protection Congress, Tehran, Iran. P. 441.
- **Atapour, M.,** S. Moharramipour 2008. Comparison of cold hardiness strategy in diapause and nondiapause larvae of rice stem borer, *Chilo suppressalis* Walker in Iran. 18th Iranian Plant Protection Congress, Hamadan, Iran. P. 442
- **Atapour, M.,** S. Moharramipour 2006. Diapause condition in overwintering larvae of rice stem borer, *Chilo suppressalis* Walker. 17th Iranian Plant Protection Congress, Karaj, Iran. P. 303.
- **Atapour, M.** Moharramipour, S. and Barzegar, M. 2006. Relationship between glycerol and major nutritional reserves in overwintering larvae of rice stem borer, *Chilo suppressalis*. 17th Iranian Plant Protection Congress, Karaj, Iran. P. 369.
- **Atapour, M.,** S. Moharramipour 2005. Cold hardiness of overwintering larvae of rice stem borer *Chilo suppressalis* Walker (Lepidoptera: Pyralidae) in Iran. First International Symposium on the Environmental Physiology of Ectotherms and Plants. Denmark, p. 11.

Patents

- **Mechanized system for collecting of moths in insectariums.** 2016.
- **Biocompatible macrocapsules of plant essential oils for pest control.** 2018.
- **Emulsion Formulation of plant extracts as natural insecticide.** 2022.

Professional Experiences

Teaching

- **Entomology and pest management,** Azad University of Shahre Ghods. Shahre Ghods, Tehran, Iran, 2011 -2015.
- **Management of plant pests.** Azad University of Shahre Ghods. Shahre Ghods, Tehran, Iran, 2011 -2015.
- **Genetics for plant protection students,** Azad University of Eslamshahr. Eslamshahr, Tehran, Iran, 2012.
- **Principles of insect physiology lab.** Entomology lab. Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran. 2009-2011.

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Interests:

- Overwintering physiology and Biochemistry of Insects.
- Use of chemical ecology and insect pheromones in pest management as alternative to pesticides.
- Use of essential oils, sterile insect technique or other environmentally friendly pest control methods.

Memberships

- Technical Committee of Kharazmi International Award.
- Technical Committee of Kharazmi Young Award.
- Iranian Entomologist Society.
- Extension Group of Environmentalist (EGE)
- Agricultural and Natural Resources Engineering Organization (ANREO)
- Reviewer of Journal of Entomological Society of Iran, JCP (Journal of Crop Protection-Tarbiat Modares University), Iranian Journal of Plant Protection Science (Tehran University) and ...
- Alternate member of Scientific Resources Supply Council in Ministry of Science, Research and Technology of Iran.
- IROST publishing deputy for digital publication of scientific works.
- Head of science survey group in IROST.