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EDUCATION:

Ph.D. in Agricultural Entomology, 2003 Karaj Agricultural College, Tehran University, Iran

M.Sc. in Agricultural Entomology, 1994, Karaj Agricultural College, Tehran University, Iran

B.Sc. in Plant Protection, 1989, Ahwaz Agricultural College, Ahwaz Chamran University, Iran

Technical Diploma of Agricultural Sciences, 1987, Sari Agricultural College, Mazandaran University, Iran

RESEARCH INTEREST:

Insect Pathology, Acridology

EXPERIENCE:

Research Associate Professor in Agricultural Entomology Research Department

POSITION:

Researcher at Agricultural Entomology Research Department, Iranian Research Institute of Plant Protection

MEMBERSHIP

- Member of editorial board of “Applied Entomology and Phytopathology”
- Member of editorial board of “Journal of Entomological Society of Iran”
- Member of The Entomological Society of Iran (from 2004 member of executive board)
- Member of The Mycological Society of Iran

THESIS SUPERVISION

1-Virulence comparison of the Iranian isolates of *Beauveria bassiana* (Bals.) Vuillumin on *Eurygaster integriceps* Put. and study of the optimum conditions for mass production of selected isolate. Ms. thesis. Agricultural college of Karaj, Tehran university.

2-The impacts of entmopathogenic fungi, *Beauveria bassiana* and *Metarhizium anisopliae* on onion thrips (*Thrips tabaci*). Ms thesis. Faculty of Science, Shahid Beheshti University.

3-The efficacy of some isolates of *Lecanicillum*, *Beauveria* and *Metarhizium* in control of Russian wheat aphid, *Diuraphis noxia*, under laboratory condition. Ms thesis. Aboureihan Agricultural College, Tehran University

4-Investigation of the epizootiology of *Beauveria bassiana* on population of *Oryzaephilus surinamensis* in date palm cultivars under stored condition. PhD. thesis. Agricultural College of Shahid Chamran University.

5-Study on the pathogenicity of some *Beauveria bassiana* isolates (Bals.) Vuill. On adult Sunn pests and formulation of the most effective one. PhD. Thesis, Islamic Azad University, Science and Research Branch

- 6- Study of the combined effects of fipronil and *Beauveria bassiana* on subterranean termite, *Microcerotermes gabrielis*. Ms thesis. Aboureihan Agricultural College, Tehran University
- 7- Study of the effects of several Iranian isolates of *Beauveria bassiana* on *Sitobion avenae*. MS. thesis, Islamic Azad University, Science and Research Branch.
- 8- The effects of Iranian isolates of entomopathogenic fungi, *Beauveria bassiana* and *Metarhizium anisopliae* on western flower thrips (*Frankliniella occidentalis*) under laboratory conditions. MS. Thesis, Tarbiat Modaress University.

PUBLICATIONS:

PAPERS:

1. Keyhanian, A. A. and **M. Ghazavi**, 1996. An Investigation to the Biological Characteristics and Population Fluctuation of *Uvarovistia zebra* In Tarom District. Appl. Ent. Phytopath. 63:32-39.
2. **Ghazavi, M**; Kharazi-Pakdel, A; Ershad, J and E.Bagheri-Zonouz. 2002. The study of the effects of Iranian isolates of *Beauveria bassiana* on *Locusta migratoria*. Appl. Ent. Phytopath.69(2):29-32
3. **Ghazavi, M.** and A. Avand-Faghieh.2002. Isolation of two entomopathogenic fungi on red palm weevil, *Rhynchophorus ferrugineus* (Olivier) (Col., Curculionidae) in Iran. Appl. Ent. Phytopath.69(2):44-45
4. **Ghazavi, M.**; A. Kharazi-Pakdel and J. Ershad. 2003. The response of the cellular immune system of *Locusta migratoria* (Orth., Acrididae) to *Beauveria bassiana* (Moniliales, Moniliaceae), isolate Fashand. J. Entomol. Soc. Iran. 23(2): 77-101
5. **Ghazavi, M.**; S. Farokhi and V. Baniameri. 2003. First report of *Entomophaga gryllii* on short-horned grasshoppers in Iran. Rostaniha. 4(3-4):110-111
6. **Ghazavi, M.**; S. Zangeneh and M. Abaii. 2005. New records of some entomopathogenic fungi from Iran. Rostaniha 6(2): 119-129.
7. Pirali-Kheirabadi, K.; H. Haddadzadeh; M. Razzaghi-Abyaneh; S. Bokaie; R. Zare; **M. Ghazavi** and M. Ghahfarokhi. 2007. Biological control of *Rhipicephalus (Boophilus) annulatus* by different strains of *Metarhizium anisopliae*, *Beauveria bassiana* and *Lecanicillium psalliotae* fungi. Parasitol. Res. 100: 1297-1302.
8. Rastgar, J.; **M. Ghazavi**; K. Kamali and J. Ershad. 2007. Comparison of the virulence of some *Beauveria bassiana* isolates on Sunn pest adults and the effect of plant oils on conidial germination of the most virulent one. Appl. Ent. Phytopath. 75(1): 51-65
9. **Ghazavi, M.**; S. Zangeneh, R. Zare and N. Hywel-Jones.2008. *Batkoa apiculata*, a new species of Entomophthorales for Iran. Rostaniha. 9(1): 63-64
10. Zare, R. and **M. Ghazavi**. 2008 First report of entomogenous fungus *Hirsutella versicolor* Petch from Iran. Appl. Ent. Phytopath. 75(2): 38-39
11. Haji Allahverdi Pour, H., **M. Ghazavi** and A. Kharazi-Pakdel. 2008. Comparison the virulence of some Iranian isolates of *Beauveria bassiana* to *Eurygaster integriceps* (Hemiptera: Scutelleridae) and production of the selected isolates. J. Entomol. Soc. Iran.28(1): 13-26
12. Zangeneh, S. and **M. Ghazavi**. 2008. New records of Entomophthoralean fungi from Iran. Rostaniha, 9(2):

13. Mohammadipour, A., **M. Ghazavi**, A. Baghdadi and A. Sheikhi Garjan. 2009. An investigation of the efficacy of two Iranian isolates of *Metarhizium anisopliae* against Russian wheat aphid, *Diuraphis noxia* (Hemiptera: Aphididae) under laboratory conditions. Iranian J. Plant Protection Science. 41(2): 353-359.
14. Latifian, M., E., Soleimannejadian, **M. Ghazavi**, J. Haiati, M. Mosadegh and P. Nikbakht. 2009. Evaluation of three *Beauveria bassiana* isolates on saw-toothed beetle, *Oryzaephilus surinamensis* and the effect of different temperature on their germination and mycelium growth. Appl. Ent. Phytopath. 77(1) :151-168
15. Mohammadipour, A., A. Baghdadi, **M. Ghazavi**, A. Mirkarimmi and N. Nikpour. Efficacy of Iranian isolates of *beauveria bassiana* against Russian wheat aphid, *Diuraphis noxia*(Mordvilko) (Homoptera:Aphididae) in laboratory conditions. J. Agriculture. 11(1): 115-127
16. Rashid, M.; A. Baghdadi, A. Sheikhi, H. R. Pourian and **M. Ghazavi**. 2010. Compatibility of *Metarhizium anisopliae* (Ascomycota: Hypocreales) with several insecticides. Journal of Plant Protection Research 50(1): 22-27
17. Latifian, M., E., Soleimannejadian, **M. Ghazavi**, J. Haiati, M. Mosadegh and M. S. Mosadegh. 2010. Study on spore survival of *Beauveria bassiana* Vuillemin in the mass of different date cultivars. J. Entomol. Res. 2(1): 61-71.
18. Latifian, M., E., Soleimannejadian, **M. Ghazavi**, M. Mosadegh and J. Haiati. 2010. Pathogenicity of *Beauveria bassiana* on larval and adult stages of saw-toothed beetle *Oryzaephilus surinamensis* reared on different date cultivars. Plant Protection. 33(1): 21-30
19. Latifian, M., E., Soleimannejadian and **M. Ghazavi**. The conidial dispersion of *Beauveria bassiana* in date by larval and adult stages of saw-toothed beetle, *Oryzaephilus surinamensis*. Plant Protection Journal. 1(4): 403-417.
20. Latifian, M., E. Soleymannejadian , **M. Ghazavi** , M. S. Mosadegh and B. rad. 2011. Effect of the fungus, *Beauveria bassiana* (Balsamo) on the functional response and host preference of the parasitoid *Cephalonomia tarsalis* (Ashmead) in larval population of the sawtoothed beetle *Oryzaephilus surinamensis* L. J. Entomol. Res. (3): 253-266.
21. Haji Allahverdi Pour, H and **M. Ghazavi**. 2011. The effect of entomopathogenic fungi on Corn Ground Beetle under laboratory conditions. J. Entomol. Res. (3): 173-182.
22. Asgarpour, R., E. Soleyman-Nejadian , S. Shafizade , **M. Ghazavi** and M. Latifian. 2011. Investigation on the effect of some isolates of *Beauveria bassiana* (Balsamo) (Asc., Hypocreales) on *Aphis gossypii* on greenhouse *Cucumis sativus* under laboratory conditions. J. Entomol. Res. (3): 239-249.
23. Sedighi, A., **M. Ghazavi**, H., Haji Allahverdipour and A. Ahadiyat. 2012. Study on the effects of some Iranian isolates of the fungus *Beauveria bassiana* (Balsamo) Vuill. (Deutromycotina: Hyphomycetes) on the bird cherry-oat aphid, *Rhopalpsiphum padi* (Linnaeus) (hemiptera: Aphididae) under laboratory conditions. Mun. Ent. Zool. Vol. 7 (1): 267-273
24. Rashid, M., A. Sheikhi Garjan, B. Naseri, **M. Ghazavi** and H. Barari. 2012. Compatibility of the entomopathogenic fungus *Beauveria bassiana* with the insecticides fipronil, pyriproxyfen and hexaflumuron. J. Entomol. Soc. Iran. 31(2): 29-37
25. Latifian, M., E., Soleimannejadian, **M. Ghazavi**, M. Mosadegh and J. Haiati. 2012. Study the horizontal and between generations transmissions of fungi *Beauveria bassiana* on sawtoothed beetle population *Oryzaephilus surinamensis* in terms of nutrition Date palm cultivars. J. Entomol. Res. 4(3): 257-267

26. **Ghazavi, M.** 2013. Introduction of four entomopathogenic protozoa, new to Iranian fauna. *Iranian J. Plant Protection Science*. 44(1): 61-69
27. Shakhshi Zare F., H. Farazmand , R. Vafaei Shushtari, A. Marouf and **Ghazavi, M.** 2014. Insecticidal efficacy of different formulations of diatomaceous earth on *Tribolium castaneum* (Herbst) (Col., Tenebrionidae) adults in lab. Conditions. *Journal of Plant Protection*. 28(3): 429-433
28. Shakhshi Zare, F., Vafaei Shushtari, R., Farazmand, Marouf, A., **Ghazavi M.** 2015. Effect of tree formulations of diatomaceous earth on germination percentage and seedling growth rate of wheat, under laboratory conditions. *J. Entomol. Res.*7(1): 29-37
29. Koupi, N., **Ghazavi, M.**, Kamali, K. and Baniameri, V. 2016. Virulence of Iranian Isolates of *Metarhizium anisopliae* on Western Flower Thrips, *Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae). *J. Crop Prot.* 5 (1): 131-138
30. Shakhshi Zare, F. , Farazmand, H., Vafaei-Shoushtari, R., Marouf, A. and **Ghazavi, M.** 2016. Effects of processed kaolin clay on adult mortality and progeny production (F1) of two stored product pests. *J. Entomol. Res.* 8(3): 193-201.
31. Latifian, M., Soleiman Nejadian, E., and **Ghazavi, M.** The Epizootic models of *Beauveria bassiana* in Sawtoothed Grain Beetle, *Oryzaephilus surinamensis* Populations Feeding on Date fruits. *Biological Control of Pests and Plant Diseases*. JBIOC. 6(2): 207-220
32. Latifian, M., **Ghazavi, M.** and Soleimannejadian, E. 2018. The role of temperature on the pathogenicity of *Beauveria bassiana* in populations of sawtoothed grain beetle, *Oryzaephilus surinamensis* (Coleoptera: Silvanidae) fed on stored date fruits. *J. Crop Prot.* 7 (4): 395-402
33. Ebrahimi, L., Sheikharjan, A. and **Ghazavi, M.** 2022. Entomopathogenic nematodes for control of potato tuber moth (*Phthorimaea operculella* [Zeller], (Lepidoptera: Gelechiidae) in infested tubers. *International Journal of Pest management*. Int. J. Pest Manag. 2022, 1–8.
34. Ebrahimi, L., Sheikharjan, A. and **Ghazavi, M.** 2022. Efficacy of native isolates and commercial products of two entomopathogenic nematode species on model host, *Tenebrio molitor* (Coleoptera: Tenebrionidae) larvae. *Biological Control of Pests and Plant Diseases*. 11(2): 57-67
35. Sheikharjan, A., Marouf, A., **Ghazavi, M.**, Jokarshoorijeh and Mohammadipour, A. 2023. Arthropod Management Tests, 48(1): 1–2
36. Ramezani Awal Riabi, H. and **Ghazavi, M.** 2023. Evaluation of the effectiveness of two Iranian su-strains of *Metarhizium anisopliae* (ascomycota: hypocreales) on the mortality rate of American cockroach. *International Journal of Environmental Health Research*.

CONGRESSES AND MEETINGS:

1. **Ghazavi, M.** and A. Kharazi Pakdel. 1995. Histopathology and Biology of *Nosema locustae* Canning in Desert Locust, *Schistocerca gregaria* Forsk. Proceeding of the 12th Iranian Plant Protection Congress.
2. Jemsee, G.; Y. Khajehzadeh and **M. Ghazavi.** 1995. Determination of Phase Status of *Dociostaurus maroccanus* in Khuzistan. Proceeding of the 12th Iranian Plant Protection Congress.
3. Keyhanian , A. A. and **M. Ghazavi.** 1995. Bioecology of *Uvarovistia zebra* (Tettigoniidae; Decticinae) in Zanjan. Proceeding of the 12th Iranian Plant Protection Congress.

4. Ghayoorfar, R.; **M. Ghazavi** and A. Kharazi Pakdel. 1998. Preliminary Study of Symbiotic Flagellates of *Reticulitermes lucifugus*. Proceeding of the 13th Iranian Plant Protection Congress.
5. Azizkhani, E.; H. Alemansoor and **M. Ghazavi**. 1998. The Efficacy of *Bacillus thuringiensis* var. kurstaki (B.t.K) Produced by Iranian Research Organization for Science and Technology (I. R. O. S. T.) and Biolep in Control of *Ocneria terebintina* (Lep.; Lymantriidae). Proceeding of the 13th Iranian Plant Protection Congress.
6. **Ghazavi, M.** and H. Allahverdipour. 2004. First report on entomopathogenic fungus *Beauveria brongniartii* from Iran. Proceeding of the 16th Iranian plant protection congress.
7. Zangeneh, S. and **M. Ghazavi**. 2004. *Erynia bulata*, a new report of Entomophthoralean fungi from Iran. Proceeding of the 16th Iranian plant protection congress.
8. Mirshekar, A., A. Kharazi-Pakdel, **M. Ghazavi** and P. Azmayeshfard. 2004. Comparative and laboratory study of pathogenicity of *Beauveria bassiana* and *Metarhizium anisopliae* on *Chrotogonus trachypterus* (Orth.: Pyrgomorphidae). Proceeding of the 16th Iranian plant protection congress.
9. Mirshekar, A., A. Kharazi-Pakdel, P. Azmayeshfard and **M. Ghazavi**. 2004. A survey on biology of *Chrotogonus trachypterus* Blanchard (Orth.: Pyrgomorphidae) under laboratory conditions. Proceeding of the 16th Iranian plant protection congress.
10. Mirshekar, A.; **M. Ghazavi**; A. Kharazi-Pakdel and J. Karimi. 2004. In vitro pathogenicity of *Beauveria bassiana* and *Metarhizium anisopliae* on *Chrotogonus trachypterus* (Orth.: Pyrgomorphidae). 37th annual meeting of the society for invertebrate pathology. Helsinki, Finland
11. Keyhanian, A. A. and **M. Ghazavi**. 2005. Biology and seasonal occurrence of katydids, Decticinae (Tettigoniidae: Decticinae) in Iran. Ninth international conference of the Orthopterists' society. Canmore, Alberta, Canada
12. Haji Allahverdipour, H.; **M. Ghazavi** and A. Kharazi-Pakdel. 2006. An investigation into laboratory scale production of the Iranian isolate of *Beauveria bassiana*. Proceeding of the 17th Iranian plant protection congress.
13. Haji Allahverdipour, H.; **M. Ghazavi** and A. Kharazi-Pakdel. 2006. Comparison between the virulence of Iranian isolates of *Beauveria bassiana* Vuill. On *Eurygaster integriceps* Put. Proceeding of the 17th Iranian plant protection congress.
14. Rastegar, J.; **M. Ghazavi**; K. Kamali and J. Ershad. 2006. Impact of seven native and GHA isolates of *Beauveria bassiana* on adult Sunn Pest in Iran. Proceeding of the 17th Iranian plant protection congress.
15. **Ghazavi, M.** and V. Baniameri. 2008. First report of *Entomophthora syrphi* from Iran. Proceeding of 18th Iranian plant protection congress.
16. **Ghazavi, M.**; S. Zangeneh; N. Hywel-Jones and R. Zare. 2008. *Batkoa apiculata*, a new species of Entomophthorales for Iran. Proceeding of 18th Iranian plant protection congress.
17. Rashid, M.; A. Baghdadi; A. Sheikhi Garjan; **M. Ghazavi**; A. Mohamadipoor and F. Zeshti. 2008. Compatibility of *Metarhizium anisopliae* with insecticides formulations used against subterranean termites. Proceeding of 18th Iranian plant protection congress.

18. Rashid, M; **M. Ghazavi**; A. Sheikhi Garjan; A. Baghdadi; A. Mohamadipoor and F. Zeshti. 2008. Compatibility of two insect growth regulator and fipronil with *Beauveria bassiana*. Proceeding of 18th Iranian plant protection congress.
19. Latifian, M., **M. Ghazavi**, M. Amani, M. Omidbakhsh and M. Zare. 2010. Comparison of lethal and sublethal doses of some entomopathogens on date palm horned beetle *Oryctes elegans* larvae. Proceeding of 19th Iranian plant protection congress.
20. **Ghazavi, M.** 2010. Entomopathogenic protists new to Iranian fauna. Proceeding of 19th Iranian plant protection congress.
21. Asgarpour, R., E. Soleyman-Nejadian, S. Shafizadeh and **M. Ghazavi**. 2010. Investigation on the effects of four isolates of *Beauveria bassiana* on the Melon aphid on greenhouse cucumber under laboratory conditions. Proceeding of 19th Iranian plant protection congress.
22. Latifian, M., E. Soleimannejadian, **M. Ghazavi**, S. M. Mosadegh and J. Hayati. 2010. The sublethal doses effect of *Beauveria bassiana* on the reproductive potentials of saw-toothed beetle *Oryzaephilus surinamensis* L. in commercial date cultivars. Proceeding of 19th Iranian plant protection congress.
23. Latifian, M., E. Soleimannejadian, **M. Ghazavi**, S. M. Mosadegh and J. Hayati. 2010. The effects of temperature on pathogenesis of *Beauveria bassiana* on population of saw-toothed beetle *Oryzaephilus surinamensis* L. Proceeding of 19th Iranian plant protection congress.
24. Mohammadipour, A., **M. Ghazavi**, A. Baghdadi and N. Nikpor. 2010. Efficacy of Iranian isolate of *Beauveria bassiana* against Russian wheat aphid *Diuraphis noxia* (Mordvilko) (Homoptera: Aphididae) under laboratory conditions. 2010. Proceeding of 19th Iranian plant protection congress.
25. Mohammadipour, A., **M. Ghazavi**, A. Baghdadi and R. Zare. 2010. Efficacy of entomopathogenic fungi *Lecanicillium muscari* and *L. aphanocladii* against Russian wheat aphid *Diuraphis noxia* (Mordvilko) (Homoptera: Aphididae) under laboratory conditions. 2010. Proceeding of 19th Iranian plant protection congress.
26. Mohammadipour, A., **M. Ghazavi** and A. Baghdadi. 2010. Efficacy of Iranian isolate of *Metarhizium anisopliae* against Russian wheat aphid *Diuraphis noxia* (Mordvilko) (Homoptera: Aphididae) under laboratory conditions. 2010. Proceeding of 19th Iranian plant protection congress.
27. Latifian, M., E. Soleimannejadian, **M. Ghazavi** and M. A. Makvandi. 2010. Effect of different commercial date palm cultivars on the growth of *Beauveria bassiana* on the larval and adult stages of saw-toothed beetle *Oryzaephilus surinamensis* L. (Coleoptera: Silvanidae) using Fungal developmental index (FDI). Proceeding of the 9th European Congress of Entomology. Budapest, Hungary.
28. Latifian, M., E. Soleimannejadian, **M. Ghazavi** and M. A. Makvandi. 2010. Study on the conidial dispersion of *Beauveria bassiana* (Balsamo) Vuillemin (Deut., Moniliaceae) in date by larval and adult stages of saw-toothed beetle *Oryzaephilus surinamensis* L. (Coleoptera: Silvanidae). Proceeding of the 9th European Congress of Entomology. Budapest, Hungary.
29. Sedighi, A., **M. Ghazavi**, Haji Allahverdipour and A. Ahadiyat. 2010. Study on the effects of some Iranian isolates of the fungus *Beauveria bassiana* (Deutromycotina: Hyphomycetes) (Bals.- Criv.) Vuillemin on the Bird cherry-oat aphid, *Ropalosiphum padi* (Hom., Aphididae) under laboratory conditions. Proceeding of the 9th European Congress of Entomology. Budapest, Hungary.

30. Koopi, N., **M. Ghazavi**, K. Kamali and A. Mohammadiour. 2010. Effects of four Iranian isolates of entomopathogenic fungus, *Beauveria bassiana* on Western flower thrips, *Frankliniella occidentalis* (Thysan., Thripidae) under laboratory conditions. Proceeding of The First National Meeting of Sustainable Agriculture and Safe Food Production. Isfahan, Iran.
31. Koupi N., **M. Ghazavi**, K. Kamali and V. Baniameri, 2011. Effect of four Iranian isolates of entomopathogenic fungus, *Beuveria bassiana* on *Frankliniella occidentalis* under laboratory conditions. Proceeding of 6th International Conference on Biopesticides (ICOB6), Chiang Mai, Thailand.
32. Shahroudi, N., Kavousi, A., **Ghazavi, M.** and Sheikhi Garjan, A., 2013. Effects of two isolates of *Metarhizium anisopliae* on the diamondback mouth (*Plutella xylostella* l.) (Lepidoptera: Plutellidae) under laboratory conditions.
33. Shakhsi Zare, F., Farazmand, H., Vafaei Shushtari, R., **Ghazavi, M.** and Marouf, A. 2014. Insecticidal effects of diatomaceous earth and processed kaolin clay against two stored product pests under laboratory conditions. Proceeding of 21th Iranian plant protection congress.
34. **Ghazavi, M.**, Bagheri Matin S. and Hajialahverdipour, H. 2016. New record of *Hirsutella* Pat. from Iran. Proceeding of 22nd Iranian plant protection congress.
35. Latifian, M., Khajezadeh, Y., Damghani, R., Arbabtafti, R. and **Ghazavi, M.** 2017. Impact of cultural management on the Dubas bug *Ommatissus lybicus* population dynamism. Proceeding of 2nd Iranian International Congress of Entomology.
36. Latifian, M., Soleimannejadian, E. and **Ghazavi, M.** 2018. The sublethal effects of *Beauveria bassiana* (Balsamo) on feeding and growth rates of the sawtoothed beetle *Oryzaephilus surinamensis* L. feeding on commercial date cultivars Proceeding of 23rd Iranian plant protection congress.
37. **Ghazavi, M.** and Heidari, A. 2018. To investigate the efficacy of ULV formulation of Deltamethrin on short horn grasshoppers. Proceeding of 23rd Iranian plant protection congress.

Other Publications:

1. **Ghazavi, M.** 2000. Moroccan Locust (In Persian), Bureau of Extension Programs, and Technical Publication Production, Agricultural Research, Education and Extension Organization, Tehran, Iran.
2. Ghadiri, V. and **Ghazavi, M.** 2005. The long horn locust, *Polysarcus elbursianus* (Orth., Tettigoniidae) (In Persian). Taraghi Publication, Tehran, Iran
- 3- Ardeh, M. J. and **Ghazavi, M.**, 2010. Principals of Biocontrol for Greenhouses Production. (In Persian). Agricultural Research, Education and Extension Organization, Iranian Research Institute of Plant protection, Tehran, Iran. 94 pp.
- 4- **Ghazavi, M.** 2015. Identification of the different nymphal stages of grasshoppers on the basis of the wing pad morphology. (In Persian). Agricultural Research, Education and Extension Organization, Iranian Research Institute of Plant Protection, Tehran, Iran.
- 5- **Ghazavi, M.** 2020. Migratory Locust (*Locusta migratoria*). (In Persian). Agricultural Research, Education and Extension Organization, Iranian Research Institute of Plant Protection, Tehran, Iran. 62 pp.

