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Academic qualifications: Research Associate Professor

PhD: Tehran, Azad University, Science and Research branch (2000)

MSc: Entomology of Agriculture, Tehran University (1994)

BSc: Plant protection, Tehran University (1991)

Research interests: (Pesticides, Their Combination, Joint Action)

- ✓ **Combination Of Different Groups Of Pesticides (Mix)**
- ✓ **Bioassay of Insecticides**
- ✓ **Timing of Application**
- ✓ **The evaluation of Insecticide efficacy**
- ✓ **Chemical control of Termites**
- ✓ **The selective application strategies for insecticides**
- ✓ **Application Technology and GIS and GPS precision agriculture technologies**
- ✓ **Vegetable and wheat Insect pests**

Selected research projects:

Sheikhiharjan A., Fathipour Y., and Khalgani J. 2001. Investigation of pyrethroids application possibility for Sunn pest control. Project No.107-77-123.

Sheikhiharjan A., Talebi Kh., Pourmirza A., and Sepehr, K. (2001). The study of replacing selective insecticides for Sunn pest chemical control and side effect of fenitrothion. Project No:107-11-76-028.

Sheikhiharjan A., and Basiri Gh. 2002. Evaluation of the efficacy of seed treatment by thiamethoxam (Cruiser 350 FS) against early season insect pests of corn. Project No:100-11-80-061.

Sheikhigarjan A., and Noori H. 2005 Effects of Juvenile hormone analogs (Admiral[®]) against the nymphal stages of Sunn pest. Project No:100-11-81-109.

Sheikhigarjan A., Yusefi, M. Tohidi, M., Jamshidi M. and Jafary S. (2006) Investigation on relationship between time-delay chemical control and the damage rate of Sunn pest (*Eurygaster integriceps* put.) in wheat fields. Project No: 100-11-82-053.

Sheikhigarjan A., and Jafary S. 2006. Efficacy of endosulfan insecticide manufactured by Iranian companies compared to original endosulfan against whitefly (*Bemisia tabaci*) in vegetable fields in Tehran and Lorestan provinces. Project No.:100-11-82-108.

-Keyhania, A. A., Sheikhigarjan A., and Amini khalaf, M. 2009. Efficiency of different insecticides against the cabbage aphid, *Brevicoryne brassicae* L. on canola under field conditions in Saveh. Pajouhesh –Va-Sazandegi, Special No.21.

Avand Fagih, A., Gries, G., Darougheh, H., Sasaerila, Y., **Sheikhigarjan A.** and Yazdani, A. 2006. Field testing of a pheromone _based attracticide for control of pistachio twig borer moth, *Kermania pistaciella* Amsel (Lepidoptera, Oinophylidae). . Project No.:0-100-100000-04-000084028.

Sheikhigarjan A. Rahimi, H., Arjomand, A., Mohajer, E. Mohammadipour, A., and Javadzade, M. 2007. Assessment of the efficiency of new insecticides on cucurbit fruit flies. Project No.: 0-100-100000-04-0000-8408.

Bizhannia A., **Sheikhigarjan A.** and M. Rahi. 2008. Investigation of effect of pyriproxifen (Admiral[®]) on quantitative and qualitative characters of silkworm (*Bombyx mori* L.) Project No.:100-11-27-82-092.

Sheikhigarjan A., Espahbodinia, E., Khormali S., Taghizadeh M. Javadzadeh M., Attaran, M. and Mohamadipour A. 2008. Efficacy of new insecticides against fruit boring noctuides on tomato. Project No.: 100-1000000-04-0000-86101.

Sheikhigarjan A., Yousefi, M., Bagheri, S., Bagheri, M., Shirdel, D. Malmir A., Javadzadeh, M. and Mohamadipour A. 2008. The study of susceptibility of onion thrips, *Thrips tabaci* to new insecticides Project No: 0-100-100000-04-0000-84107.

Sheikhigarjan A., Arjomandi, A., Jafari, A., Ghadiri, S. Firozi R., Javadzadeh, M. Mohammadipour, A., Palangi, and Enshaei, A. 2009. Investigation on the efficacy of new insecticides against white flies (*Trialeurodes vaporariorun* and *Bemisia tabaci*). Project No:100-100000-04-0000-85009.

Sheikhigarjan A., and Ranjbar, H. . 2011. Efficacy of spinosad against Colorado potato beetle *Leptinotarsa decemlineata* . Project No:4-16-16-87045.

Sheikhigarjan A., Fagih, A., Tabrizyan, M., Askari, H. and Mohammadipour A. .2013. Evaluation of the efficacy of some commercial pheromone dispensers on the trapping of Leopard Moth (*Zeuzera pyrina* L.). Project NO: 014-16-168903-89004.

Kolyaee, R., **Sheikhigarjan A.** Fagih, A., and Arde M. (2014) Integrated management of Leopard Moth (*Zeuzera pyrina* L.) in Walnut orchards (or Apple orchards). Project No: 014- 16 -16 – 8903.

Sheikhigarjan A., Motamediniya, B. Bageri, A.K., Hoshyar, H., Kolyaee R., Ghayorfar, R., and Mohamadpour, K. 2009. Evaluation of efficacy of fipronil to control of subterranean termites of date palms. Project No:0-100-100000-05-1000-85074.

Sheikhigarjan A. 2010. Investigation on efficacy of different formulations and insecticides on overwintered adult sunn pest. Project No: 2-009-100000-01-8603-86001.

Pourrahim, R. **Sheikhigarjan A.** and Farzadfar, S. 2010. Evaluation and determination of correlation between incidence of aphid borne potato virus Y infection and aphid population in potato fields. Project No:86122.

Sheikhigarjan., A., Ataran, M., and Mohamadipour A. 2011. Pest Management of Potato. Project No:12-16-16-8805-88012.

Sheikhigarjan A., Javadzade, M., Arabjafari, Kh and Alipanah, H. 2012. Efficacy of new insecticides chromafenozide (Matric SC5%) against tomato fruitworm. Project NO: 4-16-16-89098.

Sheikhigarjan A. Keyhanian, A., and Asgari S. 2010 Efficiency of Behfidor SC350 (imidacloprid) on cucurbit aphid *Brevicoryne brassicae* (L.). Project NO: 4-16-16-89043.

Sheikhigarjan A. Baniamery, V., Mohamdipour, A., and Asgari, S. (2012) Efficiency of thiocyclam SP50% (Evisect®) on leafminer *Liriomyza sativae* Blanchard (Diptera: Agromyzidae). Project NO: 4-16-16-89098.

Sheikhigarjan A., and Kolyaee, R. 2012. Efficacy of spot spray against Leopard moth *Zeuzera pyrina* L. (Lep.: Cossidae) . Project NO: 014-16-16-8903-89012.

Sheikhigarjan A. Javadzadeh M., and Mohammadipour A. (2013) Efficacy of new insecticide, ruiagro® (matrin) against diamond back moth, *Plutella xylostella*. Project NO: 4-16-16-92104.

Sheikhigarjan A., and Mohammadipour, A. 2011. Efficacy of some biological and chemical insecticides against diamondback moth, *Plutella xylostella* Project NO: 4-16-16-90041.

Sheikhigarjan A., and Baniamery V. 2013. The efficacy of new insecticide, Protus® OD11% against onion thrips, *Thrips tabaci*. Project NO: 4-16-16-90044.

Sheikhigarjan A., Javadzade, M., Baniamery, V., and Golmohammadi, Gh. 2013. Efficacy of spinosad (Optima® WG20) as insecticide in controlling the tomato leafminer, *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae). Project NO: 4-16-16-90092.

Sheikhigarjan A., Baniamery, V., Javadzade, M., and Golmohammadi, Gh. 2013. Efficacy of new insecticide flubendiamid (Takomi® WG20%) against tomato fruitworm. Project NO: 4-16-16-90092.

Khosravi, M., Sheikhigarjan A., Rigi, Y., Motamedinia, B., Gol Mohammad, Zadeh Khiaban N. 2011. Study on the combined impact of oil and different insecticides for the control of mango leaf-gall midge *Procontarinia matteiana* (Dip : Cecidomyiidae). PROJECT NO: 4- 65- 16- 89134.

Sheikhigarjan A., Baniamery V., and Mohammadipour A. 2013. Efficacy of two new insecticides flubendiamide (Takomi® WG20%) and thiocyclam (Evisect® SP50%) against the tomato leaf miner, *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae). Project NO: 4-16-16-92160.

Sheikhigarjan A., Golmohammadi Gh., and Mohammadipour A. 2014. Efficacy of a new insecticide, Lufenuron + emamectin benzoate (Proclaim® WG 50%) against the tomato leaf miner, *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae). Project NO: 4-16-16-92188.

Ahmadi, R., **Sheikhigjan, A.,** H., Soltani A., Mirabadi; and Shahabi A. 2010. The effect of some insecticides in control of wheat root aphid, *Porphirophoratrifici* by seed treatment method in dry land conditions. PROJECT NO: 2-63-16-89120.

Mohammadipour, A., **Sheikhigarjan. A.,** Abdollahi. G.A., and Radjabi, Gh. 2011. The role of some adjuvants on dosage reduction of fenitrothion and deltamethrin in Sunn pest *Eurygaster integriceps* Puton control. Project NO: 040-16-16-90019

Assari, M. J., Damghani, R., Dabiri, H., Ahangeran, M. H., Arbabtafti, R., and **Sheikhigarjan A.** 2010. Study on the efficiency insecticides: Muspilan, Lufeneuron, Colotianidin, Diazinon and Malathin on Dubas bug *Ommatissuslybicus*. Project NO:014-54-16-8905-89002.

Sheikhgarjan A., Golmohammadi Gh., and Baniamery V. 2011 The efficacy of new insecticide, Protus® OD11% against onion thrips, *Thrips tabaci*. PROJECT NO: 4-16-16-90044.

Farazmand: H., Sheikhigarjan A., and Dashtbani 2010. Study of the efficiency of Neonicotinoid Insecticides for control of grape cicada, *Psalmocharias alhageos* (Hem.: Cicadidae). Project NO: 014-16-16-8904-89005.

Keyhanian A., Barari, H., Amin, Gh. Sheikhigarjan A and Farhangi, V. 2013. Efficiency of ImunitSc% 15 insecticide on fruit boring, *Helicoverpa armigera* Hub. in tomato crops . PROJECT NO: 4-16-16-92138

Sheikhgarjan A., Marzban, R, Eslamizadeh, R., Gilasian E., and Mohammadipour, A. (2015) Efficacy of insecticides against mushroom dipteran fly. Project NO: 2-16-16-94121.

Keyhanian A, Marouf A. and Shikhigarjan A. 2013. Efficiency of botanic insecticides (Golpad®) on cabbage aphid *Brevicorene brassicae* (L.). Project No.: 04-16-16-92173

Selected publications:

. **Sheikhigarjan A. 2002.** Bioassay of different life stages of Sunn pest to six insecticides and analysis of data by three methods. Journal of Agricultural Sciences, Islamic Azad University, V 8(2):.

Sheikhigarjan A. (2000). Duration Toxicities of Nine Insecticides Based on Mortality of *Trissolcus grandis* (Thom.) (Hym.; Scelionidae). Journal of Entomological Society of Iran, V 20(2):57-70.

Sheikhigarjan A. Talebi Kh., and Pourmirza, A. (2005). Effect of some pyrethroid and organophosphorous insecticides on developmental stages of *Trissolcus grandis* (Thom.) (Hymenoptera: Scelionidae). Journal of Science and Technology of Agriculture Isfahan University of Technology.

Baniamery, V. and A. Sheikhigarjan 2006. An investigation on different concentrations imidacloprid as soil application against whitefly, *Bemisia tabaci* (Gennadius) in Greenhouse Cucumber. Integrated Control in protected Crops, *Mediterranean Climate, IOBC/wprs Bulletin Vol.29* (4)

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Sheikhigarjan A., Keyhanyan, A., and Moein S., 2004. Efficiency of micronairs in chemical control of Sunn pest nymphs. Applied Entomology and Phytopathology, (Special), pp. P19-31.

Saberfar, F., Baghdadi, A., and **Sheikhigarjan A.** 2009 Improvement in performance of abamectin and cyromazin insecticides by adding petroleum oils against leafminer, *Liriomyza sativae* Blanchard (Diptera: Agromyzidae) in cucumber. Int. j. agric. Environ. & biotechnology, 2(2):180-183

Saberfar, F., and **Sheikh Garjan, A.** 2009 Study on the resistance insecticides on the cucumber leafminer *Liriomyza sativae* (Blanchard) (Dip: Agromyzidae) under laboratory condition. Resistant Pest Management Newsletter, 18(2):39-43.

Hamedil, N., Fathipour, Y., Saber, M. and **Sheikhigarjan A.,** 2009 Sublethal effects of two common acaricides on the consumption of *Tetranychus urticae* (Prostigmata:

Tetranychidae) by *Phytoseius plumifer* (Mesostigmata: Phytoseiidae. Systematic & applied acarology, 14: 197-205.

Marzieh Rashid, Ahmad Baghdadi, **Sheikhigarjan A.**, Hamid-Reza Pourian, Mehran Gazavi 2010 Compatibility of *Metarhizium anisopliae* (Ascomycota: Hypocreales) with Several Insecticides. Journal of Plant Protection Research, **50(1):22-27**.

Sabahi Q, Rasekh A, Sangaki A H, **and Sheikhigarjan A.** 2009. The persistence toxicity of three insecticides against adult of a thelytokous parasitoid, *Lysiphlebus fabarum* (Hymenoptera: Aphidiidae. Communications in Agricultural and Applied Biological Sciences, 74(1):**159-164**.

– F. Saberfar and Sheikhigarjan A. 2010. Effect Evaluation Tween Surfactant That Improved Performance of Abamectin on Cucumber Leafminer *Liriomyza sativae* Blanchard (Dip: Agromyzidae). Resistant Pest Management Newsletter, **2(1):33-37**.

Mahmoudvand, M., Abbasipour, H., Garjan, A.S. and Bandani, A.R., 2011. Sublethal effects of hexaflumuron on development and reproduction of the diamondback moth, *Plutella xylostella* (Lepidoptera: Yponomeutidae). *Insect Science*, 18(6), pp.689-696.

Mahmoudvand, M., Abbasipour, H., Garjan, A.S. and Bandani, A.R., 2011. Sublethal effects of indoxacarb on the diamondback moth, *Plutella xylostella* (L.) (Lepidoptera: Yponomeutidae). *Applied Entomology and Zoology*, 46(1), pp.75-80.

Pirmoradi, N. A., Sheikhigarjan A., Baniameri, V. and Imani, S. 2010. Evaluation of susceptibility of the first instar nymphs and adults of *Trialeurodes vaporariorum* (Hemiptera: Aleyrodidae) to neonicotinoid insecticides under laboratory conditions. Journal of Entomological Society of Iran, 31: 13-24.

Mohammadipour, A., Ghazavi, M., Baghdadi, A. and **Sheikhigarjan A.**

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 01/2009; 41(2):353-359.

Sedighi, N., Abbasipour, H., Askary, H. and **Sheikhigarjan A.**, 2013. Effect of oil suspended conidia of *Metarhizium anisopliae* var. major on mortality of the sunn pest, *Eurygaster integriceps* Puton (Hemiptera: Scutelleridae). *Archives Of Phytopathology And Plant Protection*, 46(2), pp.128-140.

Sedighi, N., Abbasipour, H., Askary, H., **Sheikhigarjan A.** and Karimi, J., 2013. Pathogenicity of the entomopathogenic fungus *Metarhizium anisopliae* var. major on different stages of the sunn pest, *Eurygaster integriceps*. *Journal of Insect Science*, 13(1), p.150.

Jafarpour, A.A., **Sheikhigarjan A.**, Imani, S., Mahjoub, S.M. and Mahmoudvand, M., 2011. Toxic effects of neonicotinoid insecticides on nymphs and adults of the sunn pest, *Eurygaster integriceps* Puton (Hemiptera: Scutelleridae). *Acta Entomologica Sinica*, 54(8), pp.938-942.

Mahmoudvand, M., **Sheikhigarjan A.**, Rahimi, H., Reza, A., Nezhad, A., Mohajeri, M.E., Mohammadipour, A. and Fazel, M.M., 2011. Susceptibility of Males and Females of Cucumber Fruit Fly, *Dacus ciliatus*, to Various Insecticides in the Laboratory Conditions. *Biological*, p.4213.

Mahmoudvand, M., Abbasipour, H., **Sheikhigarjan A.** and Bandani, A.R., 2010. Effectiveness of indoxacarb and hexaflumuron on eggs, larvae and adults of *Plutella xylostella* (L.) (Lepidoptera: Yponomeutidae). *Acta Entomologica Sinica*, 53(12), pp.1424-1428.

Mahmoudvand, M., **Sheikhigarjan A.** and Abbasipour, H., 2011. Ovicidal effect of some insecticides on the diamondback moth, *Plutella xylostella* (L.)(Lepidoptera: Yponomeutidae). *Chilean Journal of Agricultural Research*,71(2), p.226.

Mahmoudvand, M., Abbasipour, H., **Sheikhigarjan A.**, and Bandani, A.R., 2010. Effectiveness of indoxacarb and hexaflumuron on eggs, larvae and adults of *Plutella xylostella* (L.)(Lepidoptera: Yponomeutidae). *Acta Entomologica Sinica*, 53(12), pp.1424-1428.

Mozaffari, F., Abbasipour, H., **Sheikhigarjan A.**, Saboori, A. and Mahmoudvand, M., 2012. Efficacy of *Thuja orientalis* L.(Cupressaceae) essential oil on the two spotted spider mite, *Tetranychus urticae* Koch (Acari: Tetranychidae). *Journal of Essential Oil Bearing Plants*, 15(4), pp.550-556.

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Rashid, M., **Sheikhigarjan A.**, Naseri B., Ghazavi, M. and Barari, H., 2012. Compatibility of the entomopathogenic fungus *Beauveria bassiana* with the insecticides fipronil, pyriproxyfen and hexaflumuron. *Journal of Entomological Society of Iran*, 31(2), pp.29-37.

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Mahmoudvand, M., Abbasipour, H., **Sheikhigarjan A.** and Bandani, A., 2012. Change in life expectancy and stable age distribution of the diamondback moth, *Plutella xylostella* (L.) after indoxacarb treatment. *Journal of Plant Protection Research*, 52(3), pp.342-346.

Mozaffari, F., Abbasipour, H., **Sheikhigarjan A.**, Saboori, A. and Mahmoudvand, M., 2013. Toxicity and Oviposition Deterrence and Repellency of *Mentha pulegium* (Lamiaceae) Essential Oils against *Tetranychus urticae* Koch (Tetranychidae). *Journal of Essential Oil Bearing Plants*, 16(5), pp.575-581.

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Arbabtafti, R., **Sheikhi Garjan, A.** and Hosseini Gharalari, A., 2012. Crop Loss Assessment of *Lixus incanescens* Boh.(Coleoptera: Curculionidae) on Sugar Beet, *Beta Vulgaris* L.Jordan Journal of Biological Sciences, 3, pp.197-202.

Mahmoudvand, M., Abbasipour, H., **Sheikhigarjan A.** and Bandani, A.R., 2012. Life expectancy (ex) and stable age distribution (Cx) of *Plutella xylostella* (L.)(Lep.: Yponomeutidae), exposed to sublethal doses of hexaflumuron. *Archives of Phytopathology and Plant Protection*, 45(3), pp.318-324.

Sedighi, N., Abbasipour, H., Askary, H. and **Sheikhigarjan A.**, 2013. Effect of oil suspended conidia of *Metarhizium anisopliae* var. major on mortality of the Sunn pest, *Eurygaster integriceps* Puton (Hemiptera: Scutelleridae). *Archives Of Phytopathology And Plant Protection*, 46(2), pp.128-140.

Rahimzadeh, A., Rashid, M., **Sheikhigarjan A.** and Naseri, B., 2012. Laboratory evaluation of *Metarhizium anisopliae* (Metschnikoff) for controlling *Amitermes vilis* (Hagen) and *Microcerotermes gabrielis* (Weidner)(Isoptera: Termitidae). *Journal of Crop Protection*, 1(1), pp.27-34.

Rashid, M., **Sheikhigarjan A.**, Naseri, B., and Saberfar, F., 2012 Comparative toxicity of five insecticides against subterranean termite, *Amitermes vilis* (Isoptera:termitidae) under laboratory conditions. *Mun. Ent. Zool.*1044-1050

Gholami, Z., Sadeghi, A., **Sheikhigarjan A.**, Nazemi Rafi, J. and Gholami, F., 2015. Susceptibility of western flower thrips *Frankliniella occidentalis* (Thysanoptera: Thripidae) to some synthetic and botanical insecticides under laboratory conditions. *Journal of Crop Protection*, 4, pp.627-632.

Gholami, Z., Sadeghi, A. and **Sheikhigarjan A.**, 2015. Assessing the role of exposure time of chemical and botanical insecticides on the mortality and knockdown effect of western flower thrips, *Frankliniella occidentalis* Pergande. *Int. J. Curr. Microbiol. App. Sci*, 4(1), pp.678-684.

Kheradmand, K., Beynaghi, S., Asgari, S. and **Sheikhigarjan A.**, 2015. Toxicity and Repellency Effects of Three Plant Essential Oils Against Two-spotted Spider Mite, *Tetranychus urticae* (Acari: Tetranychidae). *Journal of Agricultural Science and Technology*, 17(5), pp.1223-1232.

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Sheikhigarjan A., Arbabtafti R., Kolyaee R., and Mohammadipour A. 2016. Efficacy of imidacloprid insectigation against Leopard moth *Zeuzera pyrina* L. (Lep.: Cossidae) on walnut trees. *Plant Protection (Scientific Journal of Agriculture)*, 39(2) :37-45.

Ardeh M. J., Bagheri M. R., Yousefi M., Hosseini Gharalari A. and **Sheikhigarjan A** . 2016. Comparing the efficacy of spirotetramat (SC100) with regular insecticides against onion thrips, *Thrips tabaci* Lindeman. *Pesticides in Plant Protection Sciences*, 2(2):123-132.

Sheikhigarjan A., Hosseini-gharalari A., Mahjob M., Rashid M., Q. Sabahi, M. Safari, Jalilyan F. and Arbabtafti R. 2016. Accuracy and efficiency of conventional ground sprayers in Iran. *Acta Phytopathologica et Entomologica Hungarica* 51 (2): 297–304.

M. Javadzadeh, **A. Sheikhigarjan** and Hosseini-gharalari A., 2016. Susceptibility of different populations of *Tribolium confusum* (coleoptera: Tenebrionidae) to malathion (EC 57%) in flour mills of Iran. *Acta Phytopathologica et Entomologica Hungarica* 51 (2), 291–296.

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Noori H. and **Sheikhigarjan A.** 2016. Investigation on efficacy of different formulations and insecticides on overwintered adult sunn pest *Eurygaster integriceps* (Hem.: Scutelleridae) in Qazvin region. *Iranian Journal of Plant Protection Science*, Vol 47, (1): 107-114.

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Conference papers:

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Sheikhigarjan A. (1996). Residue of insecticides in cucumber in Iran. In International Symposium on the use of nuclear and related techniques for studying environmental behavior of crop protection chemicals. International Atomic Energy Agency Food and Agriculture Organization of The United Nation, Vien, Austria, 1-5 July .

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9. Sheikhiharjan A. Talebi Kh., and Saber, M. (2001). Determination of RPRC Index for insecticides used in Sunn pest infected fields. In The 4th Asia Pacific Conference of Entomology (APCE), Kuala Lumpur, Malaysia.14-17 August.

10. **Sheikhiharjan A.**, Talebi Kh., Pourmirza, A., Saber, M. and Morowati, M. (2002). Effect of pyrethroid and organophosphorus insecticides on developmental stages of *Trissolcus grandis* (Thom.). In The 15th Iranian Plant Protection Congress..

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