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Education

PhD Student, Bu-Ali Sina University, Hamedan, Iran

Major: Department of Water Engineering (advisor: Prof. H. Zare Abyane)

Minor: Department of Irrigation and Drainage

Thesis: *Optimization of ventilation and simulation of transpiration in Hamedan greenhouses with computational fluid dynamics and energy balance*

Master of Science (MS), Shiraz University, Shiraz, Iran

Major: Department of Water Engineering (advisor: Prof. S. Amin)

Minor: Department of Irrigation and Drainage

Thesis: *Application of the ANSWERS model for prediction of phosphorus transport in the watersheds runoff using elemental available phosphorus and the estimated values by geostatistics*

BSc, Tehran University, Tehran, Iran

Major: Dept. of Agricultural Engineering

Minor: Department of Irrigation and Drainage

Research Interests

Greenhouse microclimate simulation models, computational fluid dynamics, energy consumption in greenhouses, greenhouse crops transpiration, greenhouse automation.

Research / Academic Positions

Researcher (Academic Staff)

April 2004 - present

Dept. of Agricultural Engineering Research
 Agriculture and Natural Resources Research and Education
 Center of Hamedan
 Agricultural Research, Education & Extension Organization
 (AREEO)

Researcher

September 1998 - April 2004

Dept. of Agricultural Engineering Research
 Agriculture and Natural Resources Research and Education
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Publications

ORCID: <http://orcid.org/0000-0003-3788-2054>

Refereed Journal Papers

Rezvani S. M., Zare Abyane H. and Goodarzi M. (xxxx). 'Application of the energy balance model to predict transpiration and climatic conditions inside the greenhouse using meteorological data', *Iranian Journal of Irrigation & Drainage*, (Accepted, Farsi with English Abstract)

Rezvani S. M., Zarei G. and Salemi H. (xxxx). 'Effect of different irrigation regimes on yield and water use efficiency of greenhouse cucumber', *Iranian Journal of Irrigation & Drainage*, (Accepted, Farsi with English Abstract).

Salemi, H., Rezvani, S., Ghadami Firouzabadi, A., EbrahimiPak, N. (2020). 'Investigation and evaluation of sprinkler irrigation systems (constant classic and wheel move) in some fields of Isfahan and Hamedan provinces', *Irrigation and Water Engineering*, 10(3), pp. 277-288. doi: 10.22125/iwe.2020.107110. http://www.waterjournal.ir/article_107110.html. (Farsi with English Abstract).

Rezvani, S., Zare abyaneh, H., Godarzi, M. (2019). 'Distribution of Transpiration and Vapour pressure deficit in a Commercial Greenhouse', *Iranian Journal of Irrigation & Drainage*, 13(5), pp. 1191-1203. http://idj.iaid.ir/article_100414.html. (Farsi with English Abstract)

Rezvani, S., Ghadami Firouzabadi, A., soltani, H., Jafari, A. (2019). 'Effect of different potato sowing pattern on yield and water productivity under sprinkler and drip irrigation conditions', *Iranian Journal of Irrigation & Drainage*, 13(5), pp. 1307-1316. http://idj.iaid.ir/article_100426.html. (Farsi with English Abstract).

Rezvani, S., Dehghanisanij, H., Bayat, F., Zare Abyaneh, H. (2017). 'Determination of Depth and Frequency of Irrigation of Greenhouse Tomato', *Iranian Journal of Irrigation & Drainage*, 10(6), pp. 770-785. http://idj.iaid.ir/article_55473.html. (Farsi with English Abstract).

Salemi, H., Rezvani, S. (2016). 'Technical evaluation of sprinkler irrigation system on farm (Isfahan and Hamadan Provinces)', *Journal of Water and Soil Conservation*, 23(3), pp. 345-350. doi: 10.22069/jwfst.2016.3204. http://jwsc.gau.ac.ir/article_3204.html. (Farsi with English Abstract).

Rezvani, S., Bayat, F., Nosrati, A. (2016). 'Changes of Quality properties of Hamedan white Garlic at the Cut off Dates and Different levels of Irrigation During Storage and Relationship with Water - use Efficiency', *Iranian Journal of Irrigation & Drainage*, 9(6), pp. 973-982. http://idj.iaid.ir/article_55195.html. (Farsi with English Abstract).

Bahmani, O., Ghabaei Sough, M., Rezvani, S., Mahdavi Najaf Abadi, A. (2015). 'Investigation the Dispersivity Coefficient of NaCl in Laboratory Columns under the Effect of Different Textures and lengths', *Journal of Environmental Studies*, 41(2), pp. 317-329. doi: 10.22059/jes.2015.54984. https://jes.ut.ac.ir/article_54984.html. (Farsi with English Abstract).

Heidari A, Hemmat A, Rezvani S. (2014). 'The Effect of Inter-Row Tillage on Potato Yield Quality and Quantity and Water Use Efficiency in A Fine-Textured Soil'. *JWSS*, 18 (67) :35-44. <http://jstnar.iut.ac.ir/article-1-1737-en.html>. (Farsi with English Abstract).

Rezvani, S., Noruzi, A., Azari, K., Jafari, A. (2013). 'Determination of an appropriate model for optimum use of N fertilizer in furrow irrigation', *Journal of Sugar Beet*, 29(1), pp. 69-53. doi: 10.22092/jsb.2013.2491. https://jsb.areeo.ac.ir/article_2491.html. (Farsi with English Abstract).

Bayat, F. and Rezvani, S.M., (2012). 'Effect of harvesting time and moisture on mechanical properties of garlic (*Allium sativum* L.) skin'. *Agricultural Engineering International: CIGR Journal*, 14(3), pp.161-167.

Mirzaee, M. R, Rezvani, S.(2012). 'Effect of deficit irrigation levels at four growth stages on yield and quality of sugar beet'. *agrobreed*, 14, 94-107. <http://agrobreedjournal.ir/article-1-88-en.html>. (Farsi with English Abstract).

Rezvani, S., Mirzaee, M. R. (2011). 'Determination of water deficit sensibility in four stages of sugar beet growth in Hamedan', *Irrigation and Drainage Structures Engineering Research*, 4(3), pp. 408-418. <https://www.sid.ir/en/journal/ViewPaper.aspx?ID=349906>. (Farsi with English Abstract).

Rezvani, S., Bayat, F., Nosrati, A. (2011). " Quantitative Properties and Water Use Efficiency of White Garlic (Ecotype Hamedan) by Cut-off Date and Irrigation Level", *Irrigation and Drainage Structures Engineering Research*, 12(3), pp. 1-14. doi: 10.22092/aridse.2011.102251. <https://www.sid.ir/en/journal/ViewPaper.aspx?id=496359>. (Farsi with English Abstract).

Rezvani, S., Jafari, A., Amin, S. (2011). "Efficiency and energy consumption in sprinkler irrigation pumping plants in some fields in Hamedan province", *Irrigation and Drainage Structures Engineering Research*, 11(4), pp. 1-14. doi: 10.22092/aridse.2011.102251. <https://www.sid.ir/en/journal/ViewPaper.aspx?ID=257185>. (Farsi with English Abstract).

Mirzaei, M., Rezvani, S. (2007). 'Effects of water deficit on quality of sugar beet at different growth stages', *Journal of Sugar Beet*, 23(1), pp. 42-29. doi: 10.22092/jsb.2007.1250. https://jsb.areeo.ac.ir/article_1250.html. (Farsi with English Abstract).

Mirzaei, M., Rezvani, S., Gohari, J. (2005). 'Effect of drought stress in different growth stages on yield and some physiological properties of sugar beet', *Journal of Sugar Beet*, 21(1), pp. 14-1. doi: 10.22092/jsb.2005.1690. https://jsb.areeo.ac.ir/article_1690.html. (Farsi with English Abstract).

Heydari, A., Rezvani, S., Hemat, A. (2004). "The effect of Subsoiling and Irrigation Regime on Potato Yield. *Journal of agricultural sciences and natural resources*, 11, 35-44. <https://www.sid.ir/en/journal/ViewPaper.aspx?ID=30050> . (Farsi with English Abstract).

Conference Papers

Rezvani, S. (2016). 'Application of hot air furnaces in greenhouses. 4th National Congress on Hydroponic and Greenhouse Products..Rafsanjan University' .September 5-7. Kerman. Iran.

Rezvani, S. (2016). 'Application of heat distribution system with plastic pipes in greenhouses'. 4th National congress on Hydroponic and Greenhouse Products. Rafsanjan University. September 5-7. Kerman. Iran.

Rezvani S. M., Zare Abyane H. (2014). 'Climate simulation models in greenhouses'. 3th National Congress on Hydroponic and Greenhouse Products. Agricultural Engineering Research Institute (AERI). September 9-11. Karaj. Iran.

Rezvani S. M., Zare Abyane H. (2014). 'Application of computational fluid dynamics in greenhouses'. 3th National Congress on Hydroponic and Greenhouse Products. Agricultural Engineering Research Institute (AERI). September 9-11. Karaj. Iran.

Rezvani S. M., Zare Abyane H., Ebrahimi A. (2012). 'Investigation of night energy losses in some greenhouses of Hamadan province'. 2th National Congress on Hydroponic and Greenhouse Products. National Research Center for Flower and Ornamental Plants. September 4-6. Mahallat. Iran.

Rezvani S. M., Solgi, M., Zare Abyane H. (2012). 'Measuring energy efficiency in greenhouses'. 2th National Congress on Hydroponic and Greenhouse Products. National Research Center for Flower and Ornamental Plants. September 4-6. Mahallat. Iran.

Rezvani, S., Mirzaee, M.R. and Bayat, E. (2011). 'Yield Response Factor in Four Stages of Sugar Beet Growth. In *21st Congress on Irrigation and Drainage* (p. 187). October 19-23. Tehran. Iran.

Rezvani, S., Farzamnai, M., Zolfagharan, A. and Amin, S. (2011). 'Compared Efficiency, Consumption and Waste of Energy Between Drip and Sprinkler Pumping Plant Irrigation'. In *8th International Micro Irrigation Congress* (p. 34). October 11. Tehran. Iran.

Bayat, F., Rezvani, S. and Nosrati, A.E. (2009). April. Effect of harvesting time and curing temperature on some properties of Iranian white garlic. In *VI International Postharvest Symposium 877* (pp. 869-875). April 8-12. Antalya. Turkey.

Projects:

Technical investigation of greenhouse heat distribution systems in Hamedan province. 2017-2020. Project No.: 24-63-14-010-960255. Agricultural Engineering Research Institute (AERI). Agricultural Research, Education & Extension Organization (AREEO). Report under review. (Farsi with English Abstract).

Determination of crop water requirement of cucumber in greenhouses (Case study in Hamedan). 2015-2017. Project No.: 0-14- 14- 93127. <http://fipak.areeo.ac.ir/site/catalogue/18841146>. (Farsi with English Abstract).

Determination of depth and frequency of irrigation of greenhouse tomato: (Case study in Hamedan). 2010-2013. Project No.: 0- 14- 14- 88106. <http://fipak.areeo.ac.ir/site/catalogue/18788299> and <https://agris.fao.org/agris-search/search.do?recordID=IR2015001684> and <https://agris.fao.org/agris-search/search.do?recordID=IR2015000050>. (Farsi with English Abstract).

Technical and economical evaluation of energy efficiency and consumption in cucumber plant in Hamedan province greenhouses. 2006 – 2009. Project No.: 3- 63- 1430- 89105. <http://fipak.areeo.ac.ir/site/catalogue/18790422>. (Farsi with English Abstract).

Investigation of cost, efficiency, and energy consumption in pressurized irrigation methods. 2006-2009. Project No.: 3- 100- 220300- 00- 0000- 85088. <https://agris.fao.org/agris-search/search.do?recordID=IR2012056011>. (Farsi with English Abstract).

Effect of the different levels and cut off dates of irrigation on the properties and storage life- time of the white garlic population of Hamedan. 2004-2007. Project No.: 3-062-221200-00-0000-84002. <https://agris.fao.org/agris-search/search.do?recordID=IR2016000143>. (Farsi with English Abstract).

Impacts of different irrigation systems on nitrogen and water use efficiency and the quality and quantity of sugar beet yield. 2003 – 2006. Project No.: 123-13-20-15-82-072. <https://agris.fao.org/agris-search/search.do?recordID=IR2010000366>. (Farsi with English Abstract).

Technical and Economical Evaluation of Sprinkler Irrigation system of Potato in Isfahan and Hamedan Provinces. 2002-2003. Project No.: 100-19-20-81-062. <https://agris.fao.org/agris-search/search.do?recordID=IR2007000481>. (Farsi with English Abstract).

Investigation of the effect of different irrigation regimes on the quantity and quality of sugar beet. 1999 – 2001. Project No.: 123-13-15-78023. <https://agris.fao.org/agris-search/search.do?recordID=IR2006000135>. (Farsi with English Abstract).