



University of Zanjan

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E-Mail: Nikbakht.jaefar@znu.ac.ir**URL:** <http://www.znu.ac.ir/members/nikbakht-jaefar/en>**Tel:** +98(24) 3305 2476**Address:** Department of Water Engineering, Faculty of Agriculture, University of Zanjan, University Blvd., 45371-38791, Zanjan, I. R. Iran.**Date of birth:** 24/02/1975**Place of birth:** Tabriz (Iran)**Marital status:** Married (2 sons)**Academic qualification**

<i>Type of certificate</i>	<i>From</i>	<i>To</i>	<i>Institute or university</i>
B.Sc. in Irrigation Eng.	1993	1997	Tabriz University, Tabriz, Iran
M.Sc. in Irrigation and Drainage Eng.	1997	2000	Tarbiat Modarres University, Tehran, Iran
Ph.D. in Irrigation and Drainage Eng.	2000	2006	Tarbiat Modarres University, Tehran, Iran

Teaching Experience:

- 1:Principals of Drainage (B.Sc.),
- 2:Design of Drainage Systems (B.Sc.),
- 3:Principals of Hydrology (B.Sc.),
- 4:Engineering Hydrology (B.Sc.),
- 5:Soil, Water, plant Relationships (M.Sc.),
- 6:Water Management in the Field (M.Sc.),
- 7:Supplementary Drainage (M.Sc.).

Translated books:

Taran, F. and **Nikbakht, J.** 2016. Advanced soil and water relationship. Jahad Deneshgahi Press. (Translation into Persian)

Research Interest:

1. Deficit irrigation;
2. Irrigaion waer use efficiency
3. Pressurized irrigation;
4. Crop water requirement and crop coefficient (Kc);
5. Climate change and Crop water requirement.

Journal Papers:

Nikbakht, J., Mirlatifi, S.M. & Kamali, Q. (2002). Comarison of estimaes of reference evapotranspiration by FAO-Penman-Monteith and Penman-Wright and Hargreaves-Samani methods in Tehran. *Journal of Agricultural Sciences and Natural Resources*, 8(4): 3-14. (In Persian with English abstract)

Nikbakht, J. & Mirlatifi, S.M. (2003). Effects of ET₀ computing method, probability level, and length of peak water requirement period on daily reference evapotranspiration. *Journal of Soil and Water Sciences*, 16(2): 222-230. (In Persian with English abstract)

Kouchakzadeh, M. & **Nikbakht, J.** (2004). Comparison of Different Reference Evapotranspiration Methods at Different Climates of Iran with FAO-Penman-Monteith Standard Method. *Journal of Agricultural Sciences*, 10(3): 43-57. (In Persian with English abstract)

Nikbakht, J., Mohammadi, K. & Esheshami, M. (2007). Estimation of crop evapotranspiration in different probability levels: Case study in Maragheh, East Azarbaijan. *Journal of Agricultural Sciences*, 13(1): 95-105. (In Persian with English abstract)

Mehdizadeh, S., Behmanesh, J. & **Nikbakht, J.** (2011). Estimation of Reference Evapotranspiration with Various Occurrence Probability Levels (Case Study: Urmia). *Water and Soil Science*, 20(4): 171-183. (In Persian with English abstract)

Tabari, H., **Nikbakht, J.** & Shifteh Some'e, B. (2012). Investigation of groundwater level fluctuations in the north of Iran. *Environmental Earth Sciences*, 66(1): 231-243.

Tabari, H., **Nikbakht, J.** & Hosseinzadeh Talaee, P. (2012). Identification of trend in reference evapotranspiration series with serial dependence in Iran. *Water Resources Management*, 26(8): 2219-2232.

Nikbakht, J., Taheri, M. & Sakaki, M. (2012). Effect of Deficit Irrigation on Quantity and Quality Characteristics of Fruit and Oil of Olive (*Olea Europaea* L. cv. Koronaiki). *Journal of Water Research in Agriculture*, 26(1): 71-80. (In Persian with English abstract)

Tabari, H., **Nikbakht, J.**, & Hosseinzadeh Talaee, P. (2013). Hydrological drought assessment in Northwestern Iran based on streamflow drought index (SDI). *Water resources management*, 27(1): 137-151.

Nikbakht, J., Tabari, H. & Hosseinzadeh Talaee, P. (2013). Streamflow drought severity analysis by percent of normal index (PNI) in northwest Iran. *Theoretical and Applied Climatology*, 112(3-4): 565–573.

- Bosh, Z., Yousefi, A., Tavakoli, A. & **Nikbakht, J.** (2013). Emergence prediction of *Amaranthus retroflexus* L. under different irrigation systems in sunflower (*Helianthus annuus* L.) production. *Iranian Journal of Field Crop Science*, 44(1): 119-127. (In Persian with English abstract)
- Nikbakht, J.**, Khandeh Rouyan, M., Tavakkoli, A. & Taheri, M. (2014). Effect of deficit irrigation with magnetized water on yield and water productivity of Maize (*Zea Mays* CV. Maxima). *Journal of Water Research in Agriculture*, 27(4): 551-563. (In Persian with English abstract)
- Nikbakht, J.**, Khandeh Rouyan, M., Tavakkoli, A. & Taheri, M. (2014). Effect of magnetic irrigation on germination and early growth characteristics of maize (*Zea mays*). *Applied Field Crops Research*, 27(105): 141-147. (In Persian with English abstract)
- Nikbakht, J.** & Abdollahi Siahkalroudi, M. (2015). Effect of Magnetization of Irrigation Water on the Properties of Soil Wetting Pattern in Surface Drip Irrigation. *Water and Soil Science*, 24(4): 139-152. (In Persian with English abstract)
- Abdollahi-Siahkalroudi, M., **Nikbakht, J.**, Mohammadi, M. & Khaledian, M. (2015). Comparing Regression and Artificial Neural Networks in Estimation of soil Wetted Pattern Dimensions with Magnetic and None Magnetic Water. *Iranian Journal of Irrigation & Drainage*, 9(1): 170-179. (In Persian with English abstract)
- Hosseini, S.B., Dinpazhouh, Y. & **Nikbakht, J.** (2015). Analysis of Droughts of Northwest of Iran Using the Reconnaissance Drought Index. *Journal of Water and Soil*, 29(2): 295-310. (In Persian with English abstract)
- Nikbakht, J.** & Najib, Z. (2015). Effect of irrigation efficiency increasing on groundwater level fluctuations (Cast study: Ajab-Shir Plain, East Azarbaijan). *Water and Irrigation Management*, 5(1): 115-127. (In Persian with English abstract)
- Lotfi, H., Barzegar, T., Rabiei, V., Ghahramani, Z. & **Nikbakht, J.** (2016). Evalutaion the effect of water stress on fruit quality and quantity of some Iranian melons. *Journal of Crops Improvement*, 18(1): 157-171. (In Persian with English abstract)
- Panahi, S., Karbasi, M. & **Nikbakht, J.** (2016). Forecasting of Reference Evapotranspiration using MLP, RBF, and SVM Neural Networks. *Environment and Water Engineering*, 2(1): 51-63. (In Persian with English abstract)
- Nikbakht, J.** & Nouri, S. (2016). Groundwater level forecasting using wavelet-artificial neural networks (Case study: Maragheh Plain-East Azarbaijan). *Hydrogeology*, 1(1): 29-43. (In Persian with English abstract)
- Karbasi, M., Moghadam, M., **Nikbakht, J.** & Kaviani, A. (2016). Estimation of crop actual evapotranspiration using SEBAL algorithm (Case study: Khoramdareh region at Zanzan province). *Iranian journal of Ecohydrology*, 3(3): 427-437. (In Persian with English abstract)
- Barzegar, T., Moradi, P., **Nikbakht, J.** & Ghahremani, Z. (2016). Physiological response of Okra cv. Kano to foliar application of putrescine and humic acid under water deficit stress. *International Journal of Horticultural Science and Technology*, 3(2): 187-197.
- Nikbakht, J.**, Zolfaghari, M. & Najib, M. (2016). Groundwater level Forecasting in Tassuj Plain-East Azarbaijan by artificial neural networks. *Hydrogeology*, 1(2): 99-115. (In Persian with English abstract)
- Nikbakht, J.** & Nouri, S. (2017). Clustering Observation Wells Network and Forecasting Groundwater Level by Artificial Neural Networks (Case Study: Marageh Plain). *Water and Soil Science*, 27(1): 281-294. (In Persian with English abstract)

- Nikbakht, J.** & Rezaee, E. (2017). Effect of different levels of magnetized wastewater on yield and water use efficiency in maize and some of soil physical properties. *Iranian Journal of Soil and Water Research*, 48(1): 63-75. (In Persian with English abstract)
- Alizadeh, B., Ghahremani, Z., Barzegar, T., & **Nikbakht, J.** (2017). Effect of foliar application of putrescine on growth, yield and fruit quality of sweet pepper (*Capsicum annum* cv. Dimaz) under water stress. *Journal of Crops Improvement*, 19(2): 431-444. (In Persian with English abstract)
- Fathi, H., Imani, A., Amiri, M. E., Hajilou, J. & **Nikbakht, J.** (2017). Response of almond genotypes/cultivars grafted on GN15 'Garnem' rootstock in deficit-irrigation Stress Conditions. *Journal of Nuts*, 8(2): 123-135.
- Nikbakht, J.,** & Karami, S. (2017). Effect of pair connection of end laterals in drip irrigation system on system hydraulic properties. *Journal of Water and Irrigation Management*, 7(1): 17-28. (In Persian with English abstract)
- Barzegar, T., Lotfi, H., Rabiei, V., Ghahremani, Z. & **Nikbakht, J.** (2017). Effect of water-deficit stress on fruit yield, antioxidant activity, and some physiological traits of four Iranian melon genotypes. *Iranian Journal of Horticultural Science*, 48: 13-25.
- Molae, R., Aelaee, M., Arghavani, M. & **Nikbakht, J.** (2018). Effect of different irrigation regimes and salicylic acid on morphophysiological characters of *Calendula officinalis* L. under zanzan climate conditions. *Iranian Journal of Horticultural Science*, 48(4): 965-975. (In Persian with English abstract)
- Esfahani, Z., Barzegar, T., Ghahremani, Z. & **Nikbakht, J.** (2018). Effects of foliar application of Megafol on yield, fruit quality and water use efficiency of tomato Cv. Rio Grande under water deficit stress. *Journal of Crop Improvement*, 19(4): 995-1009. (In Persian with English abstract)
- Fathi, H., Amiri, M. E., Imani, A., Hajilou, J. & **Nikbakht, J.** (2017). Tolerance Almond Genotypes on GN15 Rootstock to Deficit Irrigation Stress on Some Physiological Characteristics and Leaf Temperature. *Journal of Horticultural Science and Technology*, 18(2): 159-176. (In Persian with English abstract)
- Fathi, H., Amiri, M.E., Imani, A., Hajilou, J. & **Nikbakht, J.** (2018). Physiological and biochemical responses in some almond (*Prunus amygdalus* Batsch.) genotypes (grafted on/GN15) submitted to drought stress. *Pakistan Journal of Botany*, 50(4): 1281-1289.
- Barzegar, T., Moradi, P., Hasanzadeh, Z., Ghahremani, Z., & **Nikbakht, J.** (2018). Evaluation of growth, yield and vitamin C content of Okra with application of putrescine and humic acid under deficit irrigation stress. *Journal of Agricultural Science and Sustainable Production*, 28(1): 109-123. (In Persian with English abstract)
- Nikbakht, J.,** & Karami, S. (2018). Hydraulic evaluation of loop and pair connection of the lateral ends in dripirrigation system. *Iranian Journal of Irrigation & Drainage*, 12(2): 387-396. (In Persian with English abstract)
- Parkhideh, J., Barzegar, T., Nekouam, F. & **Nikbakht, J.** (2018). The evaluate of growth, yield and physiological responses of bitter apple (*Citrullus colocynthis*) under deficit irrigation stress condition. *Journal of Crops Improvement*, 20(2): 357-369. (In Persian with English abstract)
- Barzegar, T., Parkhideh, J., Nekounam, F. & **Nikbakht, J.** (2018). Evaluation of growth, yield and physiological responses of some watermelon accessions to water deficit stress. *Iranian Journal of Plant Biology*, 10(2): 73-88. (In Persian with English abstract)
- Heidarian, N., Ghahremani, Z. & **Nikbakht, J.** (2018). Effect of water deficit stress on yield, physiological and biochemical traits of some Iranian melon accessions. *Journal of Plant Process and Function*, 7(26): 209-222. (In Persian with English abstract)

- Mazllom Aliabadi, U., Vaezi, A. & **Nikbakht, J.** (2019). Temporal variations of soil moisture in relation to precipitation and temperature under fallow and planted conditions in rainfed land. *Journal of Water and Soil Resources Conservation*, 8(2): 135-148. (In Persian with English abstract)
- Nikbakht, J.** & Moradi, O. (2018). Effect of Drought on Hashtgerd Plain Groundwater Quality Considering Irrigation Use. *Iran-Water Resources Research*, 14(4): 114-124. (In Persian with English abstract)
- Hoseini, S.Z., Barzegar, T., **Nikbakht, J.** & Ghahremani, Z. (2019). Growth and physiological reactions of common bean cv. Sanry in response to salicylic acid and biostimulants under different irrigation regimes. *Journal of Plant Ecophysiology*, 10(35): 73-87. (In Persian with English abstract)
- Barzegar, T., Esfahani, Z., Ghahremani, Z. & **Nikbakht, J.** (2019). Physiological and biochemical response of tomato (*Lycopersicon esculentum* cv. Rio Grande) to foliar application of biostimulant under water deficit stress. *Journal of Plant Process and Function*, 8(29): 229-239. (In Persian with English abstract)
- Fathi, H., Amiri, M.E., Imani, A. & **Nikbakht, J.** (2019). Investigation on the changes of some biochemical traits of almond genotypes leaves under drought stress on the GN15 rootstock. *Journal of Plant Process and Function*, 8(29): 15-30. (In Persian with English abstract)
- Mazllom Aliabadi, U., Vaezi, A. & **Nikbakht, J.** (2019). Effect of straw mulch and tillage direction on temporal variation of soil moisture in wheat rainfed system. *Journal of Water and Soil Conservation*, 26(1): 71-89. (In Persian with English abstract)
- Aslani, S., Barzegar, T., & **Nikbakht, J.** (2019). Effect of humic acid on physiological and biochemical indices and yield of tomato under deficit irrigation. *Journal of Crops Improvement*, 21(2): 221-232. (In Persian with English abstract)
- Mazllom, U., Vaezi, A. R. & **Nikbakht, J.** (2019). The role of soil management using straw mulch application in rainfed wheat production under various climatic condition in a semi-arid area. *Iranian Journal of Irrigation & Drainage*, 13(2): 552-564. (In Persian with English abstract)
- Hosseini, S.B., Saremi, A., Noori Gheydari, M. H., Sedghi, H., Firoozfar, A. & **Nikbakht, J.** (2019). Pixel Based Classification Analysis of Land Use Land Cover in Tarom Basin. *Journal of Water and Soil Resources Conservation*, 8(4): 135-151. (In Persian with English abstract)
- Nikbakht, J.** & Talei, A. (2019). Effect of magnetized water on hydraulic properties of tape irrigation system and yield and water use efficiency in maize. *Journal of Water and Soil Resources Conservation*, 8(4): 21-36. (In Persian with English abstract)
- Hoseini, Z., Barzegar, T., **Nikbakht, J.** & Ghahremani, Z. (2019). Pod and seed yield and quality of common bean under water deficit stress and foliar application of salicylic acid and megafol. *Journal of Agricultural Science and Sustainable Production*, 29(3): 95-111. (In Persian with English abstract)
- Aslani, Sh., Barzegar, T. & **Nikbakht, J.** (2019). Effect of foliar application of humic acid on growth, yield and fruit quality of tomato (*Lycopersicon pimpinellifolium* (L.) Mill) under deficit irrigation stress. *Journal of Plant Process and Function*, 8(4): 69-84. (In Persian with English abstract)
- Khani, A., Barzegar, T., **Nikbakht, J.** & Ghahremani, Z. (2019). Effect of foliar spray of calcium lactate on physiological characteristics, antioxidant activity and yield of lettuce (*Lactuca sativa* L.) under deficit irrigation. *Iranian Journal of Horticultural Science*, 50(3): 649-665. (In Persian with English abstract)
- Khani, A., Barzegar, T., Ghahremani, Z., & **Nikbakht, J.** (2019). The effect of calcium lactate foliar spray on growth, yield and quality of lettuce cv. New Red Fire under water deficit stress. *Journal of Plant Process and Function*, 8(33): 187-202. (In Persian with English abstract)
- Tagadosi Nia, F., Ghahremani, Z., Barzegar, T. & **Nikbakht, J.**, Aelaie, M. (2019). Effect of Different Irrigation Regimes at Pre-Harvest Stage on Yield, Fruit Quality and Water Use Efficiency of Two Iranian Melon

- Accessions. *Journal of Agricultural Science and Sustainable Production*, 29(4): 217-231. (In Persian with English abstract)
- Najafloo, P., Yaghoubi, J. & **Nikbakht, J.** (2019). Traditional utilization management of water resources in the villages of Iran. *Journal of Water and Sustainable Development*, 6(2): 27-38. (In Persian with English abstract)
- Foroumadi, M., Vaezi, A. & **Nikbakht, J.** (2020). Effect of rainfall intensity on the selectivity of splashed particles in semi-arid soils. *Water Resources Engineering*, 13(44): 65-77. (In Persian with English abstract)
- Khani, A., Barzegar, T., **Nikbakht, J.** & Ghahremani, Z. (2020). Effect of foliar spray of calcium lactate on the growth, yield and biochemical attribute of lettuce (*Lactuca sativa* L.) under water deficit stress. *Advances in Horticultural Science*, 34(1): 11-24.
- Barikloo, A., Alamdari, P. & **Nikbakht, J.** (2020). Comparision of artificial neural network and regressionpedotransfer functions for istimation of soil cation exchange capacity in northwest of Iran. *Applied Soil Research*, 8(1): 174-186. (In Persian with English abstract)
- Foroumadi, M., Vaezi, A. & **Nikbakht, J.** (2020). Temporal Variation of Interrill Erosion under Different Rainfall Intensities in Semiarid Soils. *Iranian Journal of Watershed Management Science and Engineering*, 14(48): 59-67. (In Persian with English abstract)
- Nikbakht, J.**, Mohammadi, E., & Barzegar, T. (2020). Effect of Salicylic Acid Foliar Application under Deficit Irrigation Conditions on Yield and Water Use Efficiency in Cucumber (*Cucumis sativus* cv. Kish F1). *Iranian Journal of Soil and Water Research*, 51(3): 553-561. (In Persian with English abstract)
- Nikbakht, J.**, Eshghi, V., Barzegar, T. & Vaezi, A. R. (2022). Interaction of Urea Fertilizer and Magnetized Water Using on Yield and Water and Fertilizer Use Efficiency in Cucumber (*Cucumis sativus* cv. Kish F1). *Journal of water and soil*, 34(3): 675-688. (In Persian with English abstract)
- Hoseini, Z., Barzegar, T., Ghahremani, Z. & **Nikbakht, J.** (2020). Physiological responses of common bean (*Phaseolus vulgaris* L., cv. Sanry) to foliar spray of salicylic acid and biostimulant megafol under deficit irrigation stress. *Environmental Stresses in Crop Sciences*, 13(3): 845-855. doi: 10.22077/escs.2020.2253.1574. (In Persian with English abstract)
- Najafloo, P., Yaghoubi, J. & **Nikbakht, J.** (2020). Collective Management of Wells and its Challenges in Soltanieh. *Agricultural Extension and Education Research*, 13(3): 75-92. (In Persian with English abstract)
- Ghafari, S., Tavakoli, A., Yousefi, A. R., **Nikbakht, J.** & Salek Mearaji, H. (2021). Effect of different irrigation regimes on gas exchanges and agronomy traits related to yield in bean (*Phaseolus vulgaris* L.). *Environmental Stresses in Crop Sciences*, 14(1): 63-74. (In Persian with English abstract)
- Nikbakht, J.** & Hadeli, F. (2021). Comparison of SPI, RDI and SPEI indices for drought smonitoring under climate change conditions (Case study: Kermanshah station). *Journal of Agricultural Meteorology*, 9(1): 14-25. (In Persian with English abstract)
- Nikbakht, J.**, Mohammadi, F. & Barzegar, T. (2022). Effect of Using Transparent Plastic Mulch in Deficit Irrigation Conditions on Yield and Water Productivity Green Beans. *Water Management in Agriculture*, 8(2): 151-166. (In Persian with English abstract)
- Ojaghloo, B., Rabiei, V., Taheri, M., **Nikbakht, J.** & Azimi, M. (2022). Effects of drought stress on some photosynthesis related parameters in commercial olive cultivars (*Olea europaea* L.). *Research in Pomology*, 6(2): 101-113. doi: 10.30466/rip.2021.53279.1154. (In Persian with English abstract)
- Foroumadi, M., Vaezi, A. R. & **Nikbakht, J.** (2022). Investigating The Susceptibility of Semi-arid Soils with Different Texture to Interrill Erosion in Relation to Slope Sharpness in Zanjan Province. *Applied Soil Research*, 10(1): 15-28. (In Persian with English abstract)

- Saedi, F., Barzegar, T., Ghahremani, Z. & Nikbakht, J. (2022). Evaluation the effect of red seaweed extract on growth and physiological indices of three genotypes of squirting cucumber (*Ecballium elaterium* L.). *Plant Process and Function*, 11(48): 149-164. (In Persian with English abstract)
- Nikbakht, J.**, Talei, A. & Vaezi, A. (2022). Combined Effect of Tape Drip Irrigation System Looping and Magnetic Water on Hydraulic Performance of Irrigation System and Water Use Efficiency in Maize. *Environment and Water Engineering*, 8(2): 440-452. (In Persian with English abstract)
- Nikbakht, J.**, Hamed Kordlar, Z. and Mokhtari, H. (2022). Determination of Sedum (*Sedum* cv. Nevii) Water Requirement, Crop Coefficient, and Water Productivity in Greenhouse Conditions. *Journal of Water and Sustainable Development*, 9(2): 87-94. doi: 10.22067/jwsd.v9i2.2102.1122. (In Persian with English abstract)
- Nikbakht, J.**, Mohammadi, F. & Barzegar, T. (2022). Effect of magnetic irrigation water and transparent plastic mulch on yield and water use efficiency in green beans cv. Alamout. *Iranian Journal of Irrigation & Drainage*, 16(3): 550-562. (In Persian with English abstract)
- Saedi, F., Barzegar, T., **Nikbakht, J.** & Ghahremani, Z. (2022). Investigation the effect of two red seaweed species on growth, physiological indices and fruit yield of *Ecballium elaterium* under the influence of extraction method. *Journal of Plant Production Research*, 29(3): 69-88. doi: 10.22069/jopp.2022.19335.2852. (In Persian with English abstract)
- Nikbakht, J.**, Parvizi, A. & Barzegar, T. (2023). Effect of Biochar Application on Lettuce Yield and Water Productivity in Deficit Irrigation Conditions. *Water and Irrigation Management*, 12(4): 859-871. doi: 10.22059/jwim.2022.342723.997. (In Persian with English abstract)
- Nikbakht, J.**, Bakmohammadi, F. and Barzegar, T. (2023). Effect of seed priming and irrigation level on the yield and water productivity of French lettuce. *Iranian Journal of Irrigation & Drainage*, 16(6): 1211-1220. (In Persian with English abstract)
- Farhangpour, M., Barzegar, T., Nikbakht, J. & Nekounam, F. (2023). Effect of L-cysteine and calcium lactate on yield and quality of eggplant (*Solanum melongena* L.) fruit under deficit irrigation stress. *Plant Process and Function*, 12(53): 137-152. (In Persian with English abstract)
- Ghahremani, Z., Fathollahi, A., Barzegar, T., **Nikbakht, J.**, Ranjbar, M.E. & Nezamdoost, D. (2023). Role of plant genetic resources and γ -aminobutyric acid (GABA) to enhance drought tolerance of cucumber (*Cucumis sativus*). *Agricultural Research*, 12(3): 257-265.
- Aghajanloo, Z. and **Nikbakht, J.** (2023). Simulation and Assessment of AquaCrop Model in deficit irrigation management of Winter Wheat in Zanjan Region. *Water and Soil Science*, 33(2): 23-34. doi: 10.22034/ws.2021.43612.2413. (In Persian with English abstract)
- Ghoreyshi, M., Nekounam, F., Barzegar, T. and **Nikbakht, J.** (2023). The Evaluation of Growth, Yield and Physiological Responses of African Horned Cucumber (*Cucumis metuliferus* L.) to Deficit Irrigation. *Journal of Horticultural Science*, 37(2): 423-436. doi: 10.22067/jhs.2022.76473.1169. (In Persian with English abstract)
- Farhangpour, M., Barzegar, T., Nekounam, F. and **Nikbakht, J.** (2023). Growth, Physiological Responses and Water Use Efficiency of Eggplant to Foliar Spray of L-cysteine and Calcium Lactate under Deficit Irrigation Condition. *Journal of Vegetables Sciences*, 7(13): 1-22. doi: 10.22034/iuvs.2022.561148.1232. (In Persian with English abstract)
- Ghahremani, Z., Alizadeh, B., Barzegar, T., **Nikbakht, J.**, Ranjbar, M.E. & Nezamdoost, D. (2023). The mechanism of enhancing drought tolerance threshold of pepper plant treated with putrescine and salicylic acid. *Plant Stress*, 9: 100199.

- Nezhadakhbarimahani, B., Kavousi, A., **Nikbakht, J.** & Rasoulifard, M.H. (2023). Magnetic field as an environmentally friendly tool increases the effectiveness of pesticides: A case study of acaricide spirodiclofen against *Tetranychus urticae* Koch (Acari: Tetranychidae). *Persian Journal of Acarology*, 12(4): 571–580. <https://doi.org/10.22073/pja.v12i4.81861>
- Nikbakht, J.**, Vaziri, S. and Barzegar, T. (2023). The Effect of Natural Biochar Application on Nitrogen Fertilizer Productivity in Spinach. *Water and Irrigation Management*, 13(3): 755-768. doi: 10.22059/jwim.2023.351415.1033. (In Persian with English abstract)
- Khalili, S.V., Mahtabi, G., **Nikbakht, J.** and Mohammadi, M.I. (2023). Investigating the Relationship between Hydrological and Meteorological Droughts Using SPI, RDI and SDI Indices with an Emphasis on Comparing Two Different Methods of Calculating ET₀ (Case Study: Sufi Chai Basin of Maragheh). *Irrigation and Water Engineering*, 14(2): 257-280. doi: 10.22125/iwe.2023.354331.1661. (In Persian with English abstract)
- Khani, A., Barzegar, T., & **Nikbakht, J.** (2024). Effect of potassium silicate and L-cysteine on yield, water use efficiency and fruit quality of *Physalis* (*Physalis peruviana* L.) under water deficit conditions. *Plant Process and Function*, 13(59): 25-41. (In Persian with English abstract)
- Mousavi, S.A.H., Nekounam, F., Barzegar, T., Ghahremani, Z. & **Nikbakht, J.** (2024). Assessments of Humic Acid Soil Application and Deficit Irrigation on Growth, Fruit Quality and Water Use Efficiency of *Physalis peruviana* L.. *Journal of Horticultural Science*, 38(2): 321-337. doi: 10.22067/jhs.2023.80428.1226. (In Persian with English abstract)
- Barzegar, T., Ghoreyshi, S. M., Nekounam, F., **Nikbakht, J.** & Ghashghaie, J. (2024). Growth, Yield, and physiological responses of cucumber (Kish F1 Hybrid) grafted onto African horned cucumber (*Cucumis metuliferus* L.) rootstock under deficit irrigation stress. *Russian Journal of Plant Physiology*, 71(4): 141.
- Khani, A., Barzegar, T., **Nikbakht, J.** & Sabatino, L. (2025). Foliar Application of K-Silicate and L-Cysteine Enhances Production, Quality, and Antioxidant Activities of Cape Gooseberry Fruits Under Drought Conditions. *Agronomy*, 15: 675. <https://doi.org/10.3390/agronomy15030675>
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