

# HOSSEIN BABAZADEH (Ph.D., Prof.)

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## Work Address:

Water Science and Eng. Dept., College of Agriculture and Food  
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## OVERVIEW

- Full Professor, Water Science and Eng. Dept., Science and Research Branch, Islamic Azad University, Tehran, Iran
- More than 22 years of education and research in the field of agricultural water management, on-farm water management, river basin management and water allocation.
- More than 22 years' experience in the field of IWRM, water policy and allocation in National and International projects with collaborating water firms.
- Publish numerous national and international papers and conferences presentation (Accessible above links)
- Head of Water Science department and editor-in-chief of Iranian WSRC Journal([Journal Link](#))
- Supervisor and advisor of numerous Ph.D. and M.Sc. thesis in the field of water sciences
- Knowledge of Specialize Water Resources and Irrigation and Drainage software
- Awarded fellowship at the Prestigious Humphrey Fellowship Program, Sponsored by Institute of International Education, U.S. - in the field of Natural Resources, Environmental Policy, and Climate Change (2018-2019) held in University of Montana and UC-Davis

## Scientometric Indicators(Updated: Jan 2026)

	Papers	Citation per Publication	H-Index	Citations
WoS(ISI)	73	10.14	15	740
Scopus	93	9.33	17	868
Google Scholar	278	7.59	24	2110

## EDUCATION

### University of California, Davis

#### Hubert H. Humphrey Fellowship Program

Natural Resources, Environmental Policy, and Climate Change-UC Davis, U.S.

Davis, Ca, US

2018-2019

### Science and Research Branch, Islamic Azad University

#### Ph.D. in Water Science (Irrigation Science and Engineering)

Thesis: Study of Integrated Impact of Water Resources Development and Irrigation and Drainage Projects on Groundwater Status.

Tehran, Iran

2007

### University of Tehran

#### M.Sc. in Water Science (Irrigation and Drainage)

Thesis: On-farm Evaluation of Surface Irrigation Model, SIRMOM

Tehran, Iran

2003

### University of Tehran

#### B.Sc. in Water Science (Irrigation Engineering)

Tehran, Iran

2000

## TEACHING EXPERIENCES

**Ph.D. Students:** Water Productivity, Computer Application in Irri. and Dra. Science., Advance Soil Physics, Surface Irrigation Hydraulic, Water Resources System Analysis, IWRM,

**M.Sc. Students:** Soil-Water-Atmosphere and Plant Relationship, Surface Irrigation, Pressurized Irrigation, Water Resources System Analysis, Groundwater

**Undergraduate Students:** General Irrigation, Introduction to Computer Science,

## PROFESSIONAL TRAINING AND CERTIFICATION

### Hubert H. Humphrey Fellowship Program

- *Natural Resources, Environmental Policy, and Climate Change-UC Davis, U.S.*

*Aug 2018 – June 2019*

Invited by U.S. Department of State to complete year-long professional and cultural exchange program for selected mid-career professionals setting out to address global development challenges

– Long term pre-academic program (English and Leadership) University of Montana, U.S. Apr2018-Aug 2018  
Two comprehensive English semesters and some leadership seminars and intercultural relationship seminar in University of Montana, Missoula, MT, USA

#### **Stockholm Environment Institute**

– WEAP online training course, Dec 2018

#### **United Nation University (UNU), Technische Universitat Dresden, Germany**

– Online course on “Rethinking Infrastructure Design for Multi-Use Water Services” 2015

#### **Sharif University of Technology, Tehran, Iran**

– Two-day workshop on Watershed Planning and Application of Decision Support System, UNESCO chair in Water and Environment Management for Sustainable Cities, May 2015

### **EXPERIENCES**

#### **Water Resources Planner and Modeler Yekom Consulting Engineering Co.(Part time) 2005-Current**

- **Irrigation Engineer and Water Resources Expert, Tashsaka Irrigation Improvement (Phase 2) in Republic of Uzbekistan, Funded by IsDB** 2025-Current
- Project Manager at a transboundary river basin management 2021-2024
- Water resources planner of Long-term water supply plan of Tehran, Alborz and Qazvin provinces 2022-2025
- Water resources planner and head of synthesis team of Urmia Lake revitalization project 2014-2019
- Water Resources Management Expert in the Provision of Consultancy Services for Preparation of Integrated Water Management and Development Plan for Wami/Ruvu Basin and Preparation of Tanzania Water Atlas, Tanzania
- Project Manager of Grand SefiedRoud River Basin in "The Study of Water Allocation of Grand SefiedRoud, Karkheh and Sirvan Basins Project". Iran(The project is ongoing...) 2017-2018
- Water Resources Modeler in Integrated Water Resources Management of Gavkhouni, Daryacheh Namak, KavirMarkazi and Siahkoh Basins, 2008-2014
- Water Resources Planner and Modeler in Integrated Water Resources Management of Jazmourian Basin, 2005-2007

#### **Stockholm Environment Institute (Office of Davis, Ca, US)**

**Dec 2018- Mar 2019**

- Development of Reservoir Temperature Modeling in WEAP in Santa Clara, CA rivers system project. In this project a script has developed for modeling of reservoirs temperature in seven series and parallel reservoir in daily time step for predict the temperature scenarios like climate change. This is the first time that we developed the reservoir temperature modeling in the WEAP special in this time step and multi-reservoirs.
- Water Resources Planning using WEAP in Afghanistan project.

#### **Cooperating with other companies and organizations**

- Cooperate in numerous of feasibility study of water resources development projects and irrigation and drainage network with Mahab Ghodss Co., Absaran Co., Abdan Faraz., Ashenab Co., Abkhan Co., as a Water Resources Planner and Modeler 2003-2018

#### **Science and Research Branch, Islamic Azad University**

**Tehran, Iran**

- Academic Member of Water Science and Engineering Dept., Islamic Azad University (IAU) 2003-Ongoing
- Full Professor, Science and Research Branch, Islamic Azad University (IAU) 2019 to present
- Associate Professor, Science and Research Branch, Islamic Azad University (IAU) 2013 to 2019
- Assistant Professor, Science and Research Branch, Islamic Azad University (IAU) 2003-2013
- Head of Water Science and Engineering Dept. 2015-2018

#### **Received International Fund**

- Long-Term English Training Course at University of Montana, MT, US. Hubert Humphrey Fellowship Award, by Institute of International Education, 20,000 USD 2018
- Natural Resources, Environmental policy and Climate Change, University of California, Davis, CA, US., Hubert Humphrey Fellowship Award, by Institute of International Education, 25,249 USD 2018-2019

#### **Research Projects**

- Preparing the water development document in Kerman Province based on land planning, Client: Kerman Regional Water Authority, 2021-2023

- *The effects of watershed structural management on the estimation of Jiroft River Inflow, Client: Kerman Regional Water Authority, 2022-2023*
- *Provide consulting services for water resources management, Client: Yekom Consulting Eng, Co., 2017-2018.*
- *The studies of water reservoir planning for Balakhanelou and Haji Arab river system, Client: Ashenab Consulting, 2017-2018.*
- *Evaluation of the efficiency of soybean water consumption using SWAP, Budget, and AquaCrop models, employer: Iran Water Resources Management Company, 2012-2013.*
- *The pressurized irrigation project at the campus of the Islamic Azad University - Science and Research Branch, Client: Research Deputy of the Islamic Azad University - Science and Research Branch, 2010-2011.*
- *Analysis and prediction of climatic parameters of precipitation and temperature using stochastic models (case study: Shiraz, Iran), Client: Research Deputy of the Islamic Azad University - Science and Research Branch, 2010-2011.*

## **WORKSHOPS ORGANAIZED**

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- Three days' workshop of fundamental of Water Resources Management and WEAP Software for Iranian Water Resources Management Co, Experts(60 Trainee in three sections), 2024.
- Two days' workshop of fundamental of Water Resources Management and WEAP Software, Science and Research Branch, Islamic Azad University, Tehran, Iran, 2017
- Two days' workshop of Water Resources Management fundamental and WEAP Software, Islamic Azad University, Kabul Branch, 2014
- Water Resources Management and WEAP Software workshop, Yekom Consulting Engineers Co., 2011. Tehran, Iran.
- Two Days Water Resources Management and HEC-ResSim Software workshop, Lorestan Province Water Authority, 2009. Khoram Abad, Iran

## **AWARDS**

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- The best researcher of the year award from the Islamic Azad University-Science and Research Branch, 2023
- The best professor of the year award from the Islamic Azad University-Science and Research Branch, 2016, 2022

## **COMMUNITY SERVICE**

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### **Clark Fork Coalition Missoula, MT, U.S.**

May-July 2018

- Water measurement, cleaning and Monitoring of Clark Fork River using in any type of recreation Langrud (Iran) Environmental Coalition Langrud, Iran Mar. 2017
- Hold a presentation about local river conservation in World River Days

## **SKILLS**

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- Knowledge of Specialize Soil-Water-Atmosphere and plant relationship Software (AquaCrop, CropWat, SWAP, DSSAT, Retc)
- Knowledge of Specialize Water Resources software (WEAP, MODSIM, VENSIM, HEC-ResSim)
- Language Skill: Farsi (Mother Language), English (Intermediate/Advanced), Arabic(Basic)

## **Books**

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- Babazadeh H., Sarai-Tabrizi, H, 2017, Modeling Response of Plant on Environmental Stresses, Islamic Azad University Press(In Persian)

## **INTERNATIONAL JOURNAL PAPERS (ISI)**

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1. Ziaii Gh., **Babazadeh H.\***, Ebrahimipak N.A., Tafteh A., Eftekhari K., 2025, Quantitative analysis of climate change impacts on the productivity of rainfed winter wheat: a case study of Kurdistan province, Iran. Journal of Water and Climate Change, 16 (8): 2462–2481. doi: <https://doi.org/10.2166/wcc.2025.795>
2. Baradaran-Hezaveh, F., **Babazadeh, H.\***, Amiri, E. et al. 2025, Evaluation of irrigation management in different stages of growth on the yield and water productivity in cowpea plant in field and model conditions. Appl Water Sci 15, 40. <https://doi.org/10.1007/s13201-024-02342-9>
3. Rezaei A, **Babazadeh H\***, Khosrojerdi A, Sarai-Tabrizi M (2025) Removal of sulfate pollutant from different samples of a river water using nanozeolite technology, case study: Gamasiab River, Iran. PLoS ONE 20(2): e0314480. <https://doi.org/10.1371/journal.pone.0314480>

4. Darini, R., Ahari, H., Khosrojerdi, A. Jannat B., **Babazadeh H.**, 2025, Antimicrobial properties of Graphene sheets embedded with Titanium Oxide and Calcium Oxide nanoparticles for industrial wastewater treatment. *Sci Rep* 15, 1007. <https://doi.org/10.1038/s41598-024-84335-x>
5. Faramarzpour, M., Saremi, A., Khosrojerdi, A. **Babazadeh H.**, 2024, Evaluating machine learning models in predicting GRI drought indicators (case study: Ajabshir area). *Appl Water Sci* 14, 208. <https://doi.org/10.1007/s13201-024-02224-0>
6. Vafaei, G., **Babazadeh, H.\***, Ashrafi, S. et al. 2024, Investigating the Effect of Water Quality and Soil Texture on the Hydraulic Conductivity of Clay Pipes in Subsurface Irrigation. *Water Conserv Sci Eng* 9, 72. <https://doi.org/10.1007/s41101-024-00297-1>
7. Fardanesh, H., Rahmati, S.H., **Babazadeh, H.** et al. 2025. Uncertainty evaluation of dam inflow under the influence of climate change (study area: Latiyan Dam). *Int. J. Environ. Sci. Technol.* 22, 2505–2516. <https://doi.org/10.1007/s13762-024-05933-w>
8. Mousavi, S, **Babazadeh H.\***, Sarai-Tabrizi, M. Khosrojerdi A., 2024, Assessment of rehabilitation strategies for lakes affected by anthropogenic and climatic changes: A case study of the Urmia Lake, Iran. *Journal of Arid Land*, 2024, 16(6): 752-767.
9. Bidabadi, M., **Babazadeh, H.\***, Shiri, J., Saremi A., 2024, Estimation reference crop evapotranspiration (ET0) using artificial intelligence model in an arid climate with external data. *Appl Water Sci* 14, 3 (2024). <https://doi.org/10.1007/s13201-023-02058-2>
10. Khairkhan, A., Kamali, G., Meshkatei, A.H., **Babazadeh H.**, Asadi Oskouei E., 2023. Forecasting the rice crop calendar in the northern regions of Iran with emphasis on climate change models. *Paddy Water Environ.* <https://doi.org/10.1007/s10333-023-00951-9>
11. Sheikha-BagemGhaleh, S., **Babazadeh, H.\***, Rezaie, H. Sarai-Tabrizi M., 2023, The effect of climate change on surface and groundwater resources using WEAP-MODFLOW models. *Appl Water Sci* 13, 121 (2023). <https://doi.org/10.1007/s13201-023-01923-4>
12. Mozafari, E., Saremi, A., Kharazi, H.G. **Babazadeh H.**, 2023, WetSpas to model the components of hydrologic cycle in the big watershed of Khafr affected by land use. *Theor Appl Climatol* 152, 337–345. <https://doi.org/10.1007/s00704-023-04391-7>
13. Shirangi M.J, **Babazadeh, H.**, Shirangi E., Saremi A., 2023, Developing a comprehensive model of the optimal exploitation of dam reservoir by combining a fuzzy-logic based decision-making approach and the young's bilateral bargaining model, *Membrane Water Treatment*, 14(2):65-76
14. Hasanabadi, H.N., Kavianpour, M.R., Khosrojerdi, A., **Babazadeh H.**, 2023, Experimental Study of Natural Bed Roughness Effect on Hydraulic Condition and Energy Dissipation Over Chutes. *Iran J Sci Technol Trans Civ Eng* 47, 1709–1721 (2023). <https://doi.org/10.1007/s40996-023-01060-7>
15. Farahbakhsh, M., Sarai Tabrizi, M. & **Babazadeh, H.** 2023, Determining basil production functions under simultaneous water, salinity, and nitrogen stresses. *Appl Water Sci* 13:68. <https://doi.org/10.1007/s13201-022-01849-3>
16. Salehi-Shafa N., **Babazadeh H.\***, Aghayari F., Saremi A., **2023**, Optimal utilization of groundwater resources and artificial recharge system of Shahriar plain aquifer, Iran, *Physics and Chemistry of the Earth, Parts A/B/C*, <https://doi.org/10.1016/j.pce.2023.103358>
17. Hanjaniamin, A.E., Tabrizi, M.S. & **Babazadeh, H.** 2023, Dissolved oxygen concentration and eutrophication evaluation in Yamchi dam reservoir, Ardabil, Iran. *Appl Water Sci* 13:9. <https://doi.org/10.1007/s13201-022-01786-1>
18. Saedi J., Sharifi M. R., Saremi A., **Babazadeh H.**, 2022, Assessing the Impact of Climate Change and Human Activity on Streamflow in a Semiarid Basin Using Precipitation and Base Flow Analysis, *Scientific Reports*, 12(1):1-17 (**WoS, IF= 4.379**)

19. Jaberzadeh M., Saremi A\*., Ghorbanizadeh-Kharazi H., **Babazadeh H.**, 2022, SWAT and IHACRES models for the simulation of rainfall-runoff of Dez watershed, *Climate Dynamics*, <https://doi.org/10.1007/s00382-022-06215-2>, (WoS, IF= 4.7)
20. Abbasi P., **Babazadeh, H.\***, Yargholi H., Bakhoda H., (2020) Development of Forage Maize Yield-Water Functions by Applying Simultaneous Different Levels of Irrigation and Treated Municipal Wastewater, *Irrigation and Drainage* (WoS, IF= 1.424) **Accepted**
21. Salehi-Shafa N., **Babazadeh H.\***, Aghayari F., Saremi A., 2022, Multi-objective planning for optimal exploitation of surface and groundwater resources through development of an optimized cropping pattern and artificial recharge, *Ain Shams Engineering Journal*, <https://doi.org/10.1016/j.asej.2022.101847> (WoS, IF= 3.18)
22. Esmaeelzadeh M., **Babazadeh H.\***, Naghavi H., Saremi A., Shiresmaeili Gh. 2022 Growth and photosynthesis of safflower (*Carthamus tinctorius L.*) in response to individual and combined effects of salinity and drought at different growth stages, *International Agrophysics*, 36:93-104 (WoS, IF= 2.317)
23. Pashakhah P., **Babazadeh H.\***, Shahmohammadi-Kalalagh Sh., Sarai-Tabrizi M., 2021, Salinity-Based Spatial Evaluation of Groundwater Quality for Agricultural Use, *International Journal of Environmental Science and Technology*, 19, 6833–6844. <https://doi.org/10.1007/s13762-021-03881-3> (WoS, IF= 2.86 Published)
24. Bulukazari S., **Babazadeh H.\***, Ebrahimi-Pak N., Mousavi-Jahromi S.H., Ramezani-Etedali H. 2021, Optimal management of water and land allocation in salinity and deficit-irrigation conditions using a combination of AquaCrop model and economic indicators (Case study: Qazvin Plain), *PLOS ONE*, <https://doi.org/10.1371/journal.pone.0269663> (WoS, IF= 3.0)
25. **Babazadeh, H.\***, Sarai-Tabrizi M., Hoogenboom G., (2022), Simultaneously Optimization of Crop Water Productivity and Crop Production of Soybean Using two Meta-Heuristic Algorithms, *Romanian Agricultural Research*, 39(74): 2067-5720. (WoS, IF= 0.616),
26. Amanat Behbahani L., Moghaddasi M., Ebrahimi H., **Babazadeh H.** 2020, Optimal water allocation and distribution management in irrigation networks under uncertainty by multi-stage stochastic case study: Irrigation and drainage networks of Maroon, *Irrigation and Drainage*, DOI: 10.1002/ird.2476 (WoS, IF= 1.202)
27. Hakami-Kermani A., **Babazadeh, H.\***, Porhemmat J., Sarai-Tabrizi M., (2020) An Uncertainty Assessment of Reservoir System Performance Indices under the Climate Change Effect, *Ain Shams Engineering Journal*, DOI:10.1016/j.asej.2020.03.015 (WoS, IF= 3.091)
28. Abdolahi A.A., **Babazadeh, H.\***, Yargholi B., Taghavi L., (2020) Zoning the Rate of Pollution in Domestic River Using Spatial Multi-Criteria Evaluation Model, *Civil and Environmental Engineering*, DOI: 10.2478/cee-2020-0006
29. Mohammadpour M., **Babazadeh, H.\***, Afroos A., Pazira E., (2020) Rice husk and activated carbon-silica as potential bio-adsorbents for wastewater purification, *Caspian Journal of Environmental Sciences*, 19(4):661-672
30. Dehghanipour A.H., Schoups G., Zahabiyou B., **Babazadeh H.**, (2020). Meeting agricultural and environmental water demand in endorheic irrigated river basins: A simulation-optimization approach applied to the Urmia Lake basin in Iran, *Agricultural Water Management*, <https://doi.org/10.1016/j.agwat.2020.106353> (WoS, IF= 3.542)
31. Kiafar H, **Babazadeh, H.\***, Sedghi H., Saremi A., (2020) Analyzing drought characteristics using copula based genetic algorithm method, *Arabian Journal of Geoscience*, 13,745 (WoS, IF= 1.141)
32. Moayedi A., Yargholi B., Pazira E., **Babazadeh H.**, 2020, Bio-desalination of saline waters by algae and investigated its effect on water quality, *Desalination and Water Treatment* (WoS, IF= 1.23)
33. **Babazadeh, H.\***, Ardalani H., Kisseka I., Hoogenboom G., (2020), Simultaneous Water, Salinity and Nitrogen Stresses on Tomato (*Solanum lycopersicum*) Root Water Uptake using Mathematical Models, *Journal of Plant Nutrition*, 44(2):282-295 (WoS, IF= 1.132).

34. Pakmanesh M., Mousavi-Jahromi S.H., Khosrojerdi A., **Babazadeh H.** (2020), Experimental and numerical study of upstream slope stability in an earth dam reservoir under rapid drawdown conditions, *Progress in Computational Fluid Dynamics, an International Journal*, 21(4):248-260 (WoS, IF= 1.145)
35. Shirshahi F., **Babazadeh H.**, Ebrahimipak N., Khaledian M.R. 2020, Sustainable optimization of regional agricultural water use by developing a two-level optimization model, *Arabian Journal of Geoscience*, 10.1007/s12517-020-5175-5 (WoS, IF= 1.141)
36. Dehghanipour A.H., Zahabiyoun B., Schoups G., **Babazadeh H.**, 2019, A WEAP-MODFLOW surface water-groundwater model for the irrigated Miyandoab plain, Urmia lake basin, Iran: Multi-objective calibration and quantification of historical drought impacts, *Agricultural Water Management*, 223: DOI: j.agwat.2019.105704(WoS, IF= 3.54)
37. Morsali S., **Babazadeh H.**, Shahmohammadi Kalalagh Sh., Sedghi H., 2019, Simulating Zn, Cd and Ni Transport in Disturbed and Undisturbed Soil Columns: Comparison of Alternative Models, *Int J Environ Res* (2019) 13: 721. <https://doi.org/10.1007/s41742-019-00212-w>,(WoS, IF= 1.488)
38. Alaviani F., Sedghi H., Asghari-Moghaddam A., **Babazadeh H.**, 2018, Adopting GMS–PSO Model to Reduce Groundwater Withdrawal by Integrated Water Resources Management, *Int J Environ Res* (2018) 12: 619. <https://doi.org/10.1007/s41742-018-0115-x>,(WoS, IF= 1.488)
39. Abdzad-Gohari A., **Babazadeh H.**, Amiri E., Sedghi H., (2018), Estimate of peanut production function in irrigated condition and salinity, *Polish Journal of Environmental Studies, Pol. J. Environ. Stud.* 2018;27(4):1503–1512(WoS, IF= 0.793)
40. Ashourian M., M. Shafai-Bajestan and **H. Babazadeh** (2018), Investigation of Headcut Erosion in Cohesive Soils, *Water Resources*, 45: 69. <https://doi.org/10.1134/S0097807818010049> (WoS, IF= 0.638)
41. Torabi, S. , Sedghi, H. , Porhemmat, J. and **Babazadeh, H.** (2018) The Simulation of Flood Hydrograph in Natural and Urban Basins. *Open Journal of Geology*, 8, 641-646. doi: 10.4236/ojg.2018.87037
42. **Babazadeh H.** and Sarai Tabrizi M., and Homae M., (2017), Root Water Uptake Derived Models Under Combined Water and Nitrogen Deficit Stresses, *Irrigation and Drainage*, 10.1002/ird.2104, **Accepted (WoS, IF= 0.565)**
43. **Babazadeh H.** Sarai Tabrizi M. and Homae M., (2017), Modeling Basil Response to Simultaneous Water and Salinity Stress, *Soil Science Society of America Journal*, 81:10-19. Accepted (WoS, IF= 1.752)
44. **Babazadeh H.**, Ashourian M., M. Shafai-Bajestan (2017), Experimental study of headcut erosion in cohesive soils under different consolidation types and hydraulic parameters, *Environmental Earth Science*, 76(12):1-9 (**WoS, IF= 1.765**)
45. Fotovvat M, Porhemmat J., Sedghi H., **Babazadeh H.**, (2017), Impact of structural geology on integrated water resources modeling improvement; a case study of Gharesoo river basin, in Doab-Merek station, Kermanshah, Iran, *ULUM-I ZAMIN, (ISI listed) Accepted*
46. Hamidi-Machekposhti K. Sedghi H., Telvari A., **Babazadeh H.** (2017), Forecasting by Stochastic Models to Inflow of Karkkeh Dam at Iran, *Civil Engineering Journal*, 3(5):340-350, (**ISI Listed**)
47. Hamidi-Machekposhti K. Sedghi H., Telvari A., **Babazadeh H.** (2017), Flood Analysis in Karkkeh River Basin using Stochastic Model, *Civil Engineering Journal*, 3(9):794-808, (ISI Listed)
48. Mahallati S.Z., Pazira E., Abbasi F., **Babazadeh H.** 2017, Estimation of Soil Water Retention Curve Using Fractal Dimension, *Journal of Applied Sciences and Environmental Management*, **Accepted (ISI Listed)**
49. Mansuri M., **Babazadeh H.** Emdad M.R., Fathollah Taleghani D. (2017), Effect of Deficit Irrigation Management On Qualitative And Quantitative Yield Of Sugar Beet (Beta Vulgaris L.) In Karaj, Iran, *Applied Ecology and Environmental Research*, 16(1):455-466 (**WoS, IF= 0.681**)
50. Salemian A. R, M. Shafai-Bajestan, A. Khosrojerdi, **H. Babazadeh** and H.Sedghi (2017), Study of the rate of the river ravine erosion in channels with steep slope, *Applied Ecology and Environmental Research*, (WoS, IF= 0.681) Accepted
51. **Babazadeh H.** and M. Sarai Tabrizi (2016), Adopting Adequate Leaching Requirement for Practical Response Models of Vegetables with Short-Root to Salinity, *International Agrophysics*, 30(30): 269-274, (**WoS, IF= 1.067**)
52. Kiafar H., **H. Babazadeh**, P. Marti, O. Kisi, G. Landaras, S. Karimi, J. Shiri, (2016), Evaluating the generalizability of GEP models for estimating reference evapotranspiration in distant humid and arid locations, *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-016-1888-5 (**WoS, IF= 2.433**)

53. Abdeveis S., Sedghi H., Hassonizadeh H., **Babazadeh H.** (2016), Application of Water Quality Index and Water Quality Model QUAL2K for Evaluation of Pollutants in Dez River, Iran. Water Resources, Accepted (WoS, IF= 0.310)
54. Hamed S., E. Pazira and **H. Babazadeh**, 2015, A New Approach Based on Fuzzy Rule-base System for estimating Soil Saturated hydraulic Conductivity, Research Journal of Fisheries and Hydrobiology, Accepted. **(ISI Listed)**
55. Kefayati M., Saghafian B., Ahmadi A., **Babazadeh H.** (2017), Empirical evaluation of river basin sustainability affected by inter-basin water transfer using composite indicators, Water and Environment Journal, doi:10.1111/wej.12304, **(WoS, IF= 1.063)**
56. Shahmohammadi-Kalalagh Sh., **H. Babazadeh** and Nazemi A. 2015, Comparison of linear and nonlinear forms of isotherm models for Zn(II) and Cu(II) sorption on a kaolinite, Arab J Geosci, 8:397–402 (WoS, IF= 1.152)
57. Tavakoli A., **H. Babazadeh**, F. Abbasi And H. Sedghi, 2015, Developing an Equation For Estimating Infiltration Rate Through Soil Using Scaling Methods Of Furrow Irrigation, J. Soil Nature, 8(2):11-17
58. Tavousi M. , F. Kaveh, A. Alizadeh, **H. Babazadeh** and A. Tehranifar, 2015, Effects of Drought and Salinity on Yield and Water Use Efficiency in Pomegranate Tree, J. Mater. Environ. Sci. 6(7):1975-1980
59. Aryanfar A., Shafai Bejestan M., Khosrojerdi A. and **Babazadeh H.**, 2014, Laboratory investigation on changes in the angles of the invert traps in order to increase the trapping efficiency. Ecology, Environment and Conservation. 20(2):35-45. **(ISI Listed)**
60. Khonok A., E. Amiri and **H. Babazadeh**, 2014, The Effect of Drip Irrigation and nitrogen fertilizer on yield and Water Use Efficiency in Peanut (*Arachis hypogaea L*), International Journal of Basic Sciences & Applied Research, 3:78-82.**(ISC)**
61. Nouri M., Sedghi H., **Babazadeh H.** and Fahmi H., 2014, Urmia Lake Water Level Fluctuation Hydro Informatics Modeling Using Support Vector Machine and Conjunction of Wavelet and Neural Network, Water Resources, 41(3):261–269. (WoS, IF= 0.638)
62. Tafteh A., **Babazadeh H.**, EbrahimiPak N. A. and Kaveh F., 2014, Determine yield response factors of important crops by different production functions in Qazvin plain. Ecology, Environment and Conservation 20(2): 7-14. **(ISI Listed)**
63. Tafteh A., **Babazadeh H.**, EbrahimiPak N. A. and Kaveh F., 2014. Optimization of irrigation water distribution using the MGA method and comparison with a linear programming method. Irrig. and Drain. 63:590–598. (WoS, IF= 0.127)
64. Zarei M.A., **Babazadeh H.**, Tabatabaei S.H., Sedghi H., 2014. Validation and performance of several radiation models in Shahrekord plain. Science Asia journal. Accepted (ISI Listed)
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