

Curriculum Vitae (C.V.) of
Dr. Sayyed-Hassan Tabatabaei
 (Associate Professor)



1- Personal Identification:

First name: **Sayyed-Hassan** Last name: **Tabatabaei**
 Birthday: **1973** Birth place: **Isfahan, IRAN**
 Marriage statues: **Married**

Address:

Department of Water Engineering, Faculty of Agriculture, Shahrekord University,
 88186-34141, Shahrekord, POB: 115, IRAN
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<https://www.scopus.com/authid/detail.uri?authorId=23670673800>
<https://scholar.google.com/citations?hl=en&user=mtGtKkYAAAAJ>
https://www.researchgate.net/profile/Sayyed_Hassan_Tabatabaei

Language:

Persian: Native speaker **Arabic:** Good both written and spoken
English: Good both written and spoken

Research interest:

- Contaminant Transport in Porous media *Soil and Water Contamination*
- Soil physics (infiltration, fractal, scaling) *Surface and subsurface irrigation*
- Groundwater modeling *Low quality water reuse*

2-Academic Degrees:

2-1- Ph.D. on Irrigation and Drainage (2004)

Average grade of courses: 16.63 out of 20.00

From: Department of Irrigation and Reclamation, Agriculture Faculty, Tehran University, Karaj, IRAN.

Seminar title: 1- Removal of Heavy metal from wastewater 2- Preferential flow of water and Solute transport.

Dissertation title: Seasonal variation of infiltration parameters in furrow irrigation effected by soil texture and field management

2-2- M.Sc. on Irrigation and Drainage (1998)

Average: 16.74 out of 20.00

From: Department of Irrigation and Drainage, Agriculture faculty, Isfahan University of Technology, Isfahan, IRAN

Thesis title: Mathematical and Management Model of Groundwater with emphasis on Artificial Recharge by using of MODFLOW software (case study)

2-3- B.Sc. on Irrigation and Reclamation (1996)

Average of Grade: 16.32 out of 20.00

From: Department of Irrigation and Reclamation, Agriculture Faculty, Tehran University, Karaj, IRAN.

2-4- English test

MCHE, 2003, Score: 50 out of 100 (Ministry of Science and Research and Technology, Testing service)

IELTS, 2013 December, Overall Score: 5.5 out of 9.0

2-5- Computer programming skill:

General: Office, Qbasic and Visual Basic,

Academic: Cropwat, REF-ET, Infiltr, Sirmod, SRFR, PMWIN, Hydrus, Aquchem, Arcinfo, Mapinfo, Hydrus, RETC,

Three professional references, their e-mail addresses, and telephone contact numbers

1. Prof. Mark Brusseau, **The University of Arizona**, Tucson, AZ, USA., email: brusseau@email.arizona.edu Tel: +1 (520) 621-3244
2. Prof. Abdolmajid Liaghat, **Tehran University** Karaj, IRAN. email: aliaghat@ut.ac.ir Tel: +98 26 32224119
3. Prof. Mohammad Pessarakli **The University of Arizona**, Tucson, AZ, USA email: pessarak@email.arizona.edu Tel: +1 520 269 5938

3-Professional Experience:

From	Until	Name of Organization	Activity	Position	Name of project
1995	1995	Parsab Eng. Consult Comp.	Consultant	Engineer	Meteorology, Fiziografy
1996	1996	Parsab Eng. Consult Comp.	Consultant	Engineer	Meteorology, Fiziografy, Groundwater
1996	2000	AbAndish Eng. Consult Comp.	Consultant Manager	Engineer	Irrigation and drainage, Watershed management, Project manager
1997	1998	Abrodmaehr Eng. Consult Comp.	Consultant	Engineer	Pressurized irrigation system
1999	2000	Iranian national committee on irrigation and drainage (IRNCID)	Consultant	Young Prof. member	Workshop, editing book, conference
1999	1999	Iranian fisheries company	Consultant	Engineer	Water delivery and distribution network (WDDN), pump station
2000	2001	ParRayab Eng. Consult Comp.	Consultant	Engineer	WDDN, pump station
2001	2001	Abkavosh Eng. Consult Comp.	Consultant	Engineer	WDDN, pump station
2002	2003	Fanavaran Eng. Consult Comp.	Consultant	Engineer	WDDN, pump station
2006	2010	SimabPajoh Eng. Consult Comp.	Consultant	Engineer	WDDN, pump station
2006	2010	KamandAb Eng. Consult Comp.	Consultant	Engineer	WDDN, pump station
2000	2006	Islamic Azad University, Khorasgan Brnanch	Teaching & Research	Assistant Prof.	Irrigation, Drainage, Groundwater, Wastewater reuse
2008	2010	Kish free zone organization	Research	Consultant	Groundwater modeling
2004	2011	Shahrekord University	Teaching & Research	Assistant Prof.	Irrigation, Drainage, Groundwater, Wastewater reuse
2011	Continue	Shahrekord University	Teaching & Research	Associate Prof.	Irrigation, Drainage, Groundwater, Wastewater reuse
2009	Continue	Behab Sad	Consultant	Engineer	Irrigation

4- Educational Activity:**4-1-Teaching**

1. Treatment of soil and water pollution, (Shahrekord University), 2018- Continue, (www.sku.ac.ir). PhD level.
2. Contaminant transport in soil, (Shahrekord University), 2016- Continue, (www.sku.ac.ir). PhD and MSc. level.
3. Flow in porous media (Shahrekord University), 2012- Continue, (www.sku.ac.ir). PhD level.
4. Infiltration and Seepage theory (Shahrekord University), 2012- Continue, (www.sku.ac.ir). PhD level.
5. Surface Irrigation Hydraulic (Shahrekord University), 2009- Continue, (www.sku.ac.ir). PhD level.
6. Surface Irrigation (Shahrekord University), 2004- Continue, (www.sku.ac.ir). Msc level.
7. Surface Irrigation system design (Shahrekord University), 2006- Continue, (www.sku.ac.ir)
8. Fundamental of Drainage (Tehran University, Shahrekord University), 2005- Continue, (www.sku.ac.ir).
9. Surveying (Shahrekord University and Payam Nour University), 2006- 2010, (www.sku.ac.ir , www.pnu.ac.ir)
10. General Irrigation (Tehran University, Khorasgan Azad University and Shahrekord University), 2000- Continue, (www.ut.ac.ir , www.khuisf.ac.ir , www.sku.ac.ir).
11. Computer programming (Shahrekord University), 2004- 2006, (www.sku.ac.ir)
12. Application of Internet (Khorasgan Azad University), 2001- 2003, (www.khuisf.ac.ir).
13. General Irrigation & Meteorology (Payam Nour Shahrekord University), 2005- 2006, (www.pnu.ac.ir).

14. Soil Water Plant Relationship (Khorasgan Azad University and Shahrekord University), 2001- 2010, (www.khuisf.ac.ir , www.sku.ac.ir).

15. Irrigation system design, Surface/Pressurized system (Jahad Daneshgahy Institute), 2002, Graduate Student.

4-2- Attending Workshops and Post-Courses

1. Contaminant Transport in Porous Media, 2015, Department of Soil, Water and Environmental Science, The University of Arizona, Tucson, AZ, USA. Spring semester 2015 (www.arizoan.edu)
2. International course on Agriculture irrigation, 2013, International Agricultural Research and Training Center (IARTC), Menemen, Izmir, Turkey, Sept. 2013, (www.utaem.gov.tr)
3. Second International course on Sustainable Soil and Water Management, 2011, International Agricultural Research and Training Center (IARTC), Menemen, Izmir, Turkey, June-July. 2011, (www.utaem.gov.tr)
4. Fourth National Drainage Workshop, 2006, Iranian National Committee on Irrigation and Drainage, Tehran, Iran, Nov. 2006, (www.irncid.org).
5. International water science camp 2005, Water Resource Management Workshop, Nanjing hydraulic research institute, Nanjing city, Jiangsu Province, P. R. China, June 2005 (www.NHRI.edu.cn).
6. Application of GIS and RS, 2004, Iranian National Committee on Irrigation and Drainage, Tehran, Iran. (www.irncid.org).
7. Water Resource Management Workshop, 2002, Tarbiat Modares University, Tehran, IRAN, Jan. 2002
8. Mathematical Model applied for Groundwater Flow Modeling, 2001, Tehran University, Karaj, IRAN, Nov. 2001, (www.ut.ac.ir).
9. Using of Internet in Irrigation Workshop, 2001, Iranian National Committee on Irrigation and Drainage, Tehran, Iran, Nov. 2001, (www.irncid.org).
10. Post-Graduate course in sediment transport technology, 2001, Ministry of Energy, Ankara, Turkey, June- July 2001.
11. Second National Drainage Workshop, 2001, Iranian National Committee on Irrigation and Drainage, Tehran, Iran, May 2001, (www.irncid.org).
12. Drip and Sprinkler Irrigation Design and Implementation, 1998, Minister of Agriculture, Karaj, Iran, Jun 1998, (<http://www.agri-jahad.org>).

5- Publication:

5-1- Journal Papers (In English):

1. Mousavizadeh, R , Tabatabaei, S.H. , Nourmahnad, N , Aras, S . 2021. Simulation of Runoff and Sediment in a Water Repellent Soil under Different Rainfall Intensity. *Toprak Su Dergisi*, 10:46-55. DOI: 10.21657/topraksu.700846
2. Ebrahimian H, Ghafari P, Ghameshlou A, Tabatabaei S.H., Alizadeh-Dizaj A. 2020. Extensive Comparison of Various Infiltration Estimation Methods for Furrow Irrigation under Different Field Conditions *Agricultural Water Management* 230: March 2020 (<https://doi.org/10.1016/j.agwat.2019.105960>). IF(2019)= 4.02
3. Zebardast S, Tabatabaei S.H., Abbasi F, Heidarpor M. 2020. Solute mixing in a permeable non-rectangular channel. *International Journal of Sediment Research* 35:134-145 (<https://doi.org/10.1016/j.ijsrc.2019.10.007>). IF(2019)=2.570
4. Lalehzari R. and Tabatabaei S.H. 2020. Discussion of "Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers" by Hamid Sanginabadi, Bahram Saghafian, and Majid Delavar. *Journal of Hydrologic Engineering (ASCE's)* 25:07019005 IF(2019)= 1.76.
5. Tabatabaei S.H. Nourmahnad N. Golestani-Kermani S. Tabatabaei S.A. Najafi P. and Heidarpor M. 2020. Urban wastewater reuse in agriculture for irrigation in arid and semi-arid regions - A review. *International Journal of Recycling of Organic Waste in Agriculture* 9(2):193-220. (DOI: 10.30486/ijrowa.2020.671672)
6. Nasr SH. Tabatabaei S.H. and Najafi P. 2018. Movement of Important Cations Through a Soil Column effected by Subsurface Drip Irrigation Systems and Water Qualities. *Applied Ecology and Environmental Research* (<http://www.aloki.hu/>) IF(2019)=0.712 (Accepted).
7. Tabatabaei S.H., Mousavi, S.M. Mirlatif, S.M. Sharifnia R.S. and Pessaraki M. 2017. Effects of municipal wastewater on soil chemical properties in cultivating Turfgrass using subsurface drip irrigation. *Journal of Plant Nutrition*.40 :1133-1142. (<https://doi.org/10.1080/01904167.2016.1264422>) IF(2019)=1.13.
8. Tabatabaei S.H. Fatahi Nafchi R. Najafi P. Karizan M.M. and Nazem Z. 2017. Comparison of traditional and modern deficit irrigation techniques in corn cultivation using treated municipal wastewater. *International Journal of Recycling of Organic Waste in Agriculture* (2017) 6:47–55. DOI 10.1007/s40093-016-0151.
9. Mardaninejad, S., Tabatabaei S.H, Pessaraki M. and Zareabyaneh H. 2017. Physiological responses of pepper plant (*Capsicum annum L.*) to drought stress. *Journal of Plant Nutrition* 10 :1453-1464.. (<https://doi.org/10.1080/01904167.2016.1269342>) IF(2019)=1.13.
10. Mardaninejad, Sara, Hamid Zareabyaneh, Tabatabaei S.H, Mohammad Pessaraki, and Abdolrahman Mohamadkhani. 2017. Root Water Uptake of Pepper Plants (*Capsicum Annum L.*) Under Deficit Irrigation. *Journal of Plant Nutrition* 40 :1569-1579. (<https://doi.org/10.1080/01904167.2016.1263334>) IF(2019)=1.13.

11. Zarei M.A. Babazadeh H. **Tabatabaei S.H.** and Sedghi H. **2015**. Investigating the effect of calibrating the coefficients of some radiation models on determination of reference evapotranspiration by Hargreaves-Samani equation in Shahrekord plain in Iran. *European online journal of natural and social science* 5(5): (**Accepted**).
12. Zarei M.A. Babazadeh H. **Tabatabaei S.H.** and Sedghi H. **2014**. Validation and performance of several radiation models in Shahrekord plain. *The Science Asia journal (SAJ)*, <http://www.scienceasia.org> (**Accepted**).
13. Lalehzari R. and **Tabatabaei S.H.** **2015**. Simulating the Impact of Subsurface Dam Construction on the Change of Nitrate Distribution. *Environmental Earth Sciences Journal*. **IF(2019)=1.87**. DOI: 10.1007/s12665-015-4362-2.
14. Taheri H. Ghobadina M. Kazemian H. and **Tabatabaei S.H.** **2014**. Using natural zeolite for contamination reduction of agricultural soil irrigated with treated urban wastewater. *Desalination and Water Treatment Journal*. (www.tandfonline.com/tdwt) **IF(2015)=1.272**. DOI: 10.1080/19443994.2014.904818.
15. Mirzaei S.M.J. Heidarpour M. **Tabatabaei S.H.** Najafi P. and Hashemi S.E. **2013**. Immobilization of leachate's heavy metals using soil-zeolite column. *International Journal of Recycling of Organic Waste in Agriculture* 2:20 <http://www.ijrowa.com/content/2/1/20>. DOI: 10.1186/2251-7715-2-20
16. Mahdavi A. **Tabatabaei S.H.** Mahdavi R. and Nouri M.R. K. **2013**. Application of digital techniques to identify aquifer artificial recharge sites in GIS environment. *International Journal of Digital Earth* 6(6): 589-609. DOI:10.1080/17538947.2011.638937. **IF(2019)=3.097**
17. Lalehzari R. **Tabatabaei S.H.** and Kholghi M. **2013**. Simulation of nitrate transport and wastewater seepage in groundwater flow system. *International Journal of Environmental Science and Technology* 10:1367-1376. DOI: 10.1007/s13762-013-0213-4. **IF(2015)=2.540**
18. **Tabatabaei S.H.** Najafi P. Mirzaei S.M.J. Nazem Z. Heidarpour M. Hajrasoliha Sh. Afyuni M. Beigi Harchegani H. Landi E. Akasheh L. Zamanian M. Barani M. and Amini H. **2012**. Compost' leachate recycling through land treatment and application of natural Zeolite. *International Journal of Recycling of Organic Waste in Agriculture* 1:2. DOI: 10.1186/2251-7715-1-2 .
19. Najafi P. **Tabatabaei S.H.** Asgari K. **2012**. Assessment of SDI system application on grape. *International Journal of Food, Agriculture & Environment JFAE* 10(1):260-262. (www.world-food.net) **IF(2010)=0.424**
20. Parandnia M. Najafi P. and **Tabatabaei S.H.** **2011**. Effect of zeolite on germination and vegetative growth of bell pepper. *Research on Crops* 12(3):796-799. (www.cropresearch.org) **IF(2010)=0.036**
21. **Tabatabaei S.H.** Moslehi Sh. Najafi P. And Reissi T. **2011**. Management of water content of soil in cultivation of greenhouse Cucumber (*Cucumis sativus* L., Nasim variety) in Isfahan-Iran. *African Journal of Biotechnology*. 10(54):11157-11164. (<http://www.academicjournals.org/AJB>) **IF(2010)=0.573**
22. Nazem Z. Najafi P. **Tabatabaei S.H.** and Hajrasoliha Sh. **2011**. Adsorption of heavy metals in the compost leachate in a soil column enriched by Clinoptilolite. *Research Journal of Chemistry and Environment*. 15(2):709-714. (http://www.chemenviron.org/environ/rjce/chemenviron_rj.htm) **IF(2010)=0.323**
23. Mohsenifar K. Pazira E. **Tabatabaei S.H.** Najafi P. Yarali N. **2011**. Evaluation of Landuse and Rainfall on Zayanderood River Water Quality Using ANN. *Advances in Environmental Biology*, 5(4):756-764. (<http://www.aensonline.com/aeb.html>)
24. Najafi P. **Tabatabaei S.H.** **2010**. Application of sand and geotextile envelope in subsurface drip irrigation. *African Journal of Biotechnology* 9(32): 5147-5150. (<http://www.academicjournals.org/AJB>) **IF(2009)=0.565**
25. Najafi P. **Tabatabaei S.H.** and Asgari K. **2010**. Evaluation of filtration and SDI application effects on treated wastewater quality index, *African Journal of Agricultural Research* 5(11):1250-1255. (<http://www.academicjournals.org/AJAR>) **IF(2009)=0.08**
26. XU G. and **Tabatabaei S.H.** **2010**. Introducing Some PTF for Soil Physical Properties in Bank of Yangtze River, Nanjing District. *Journal of Research in Agricultural Science* 6(2):65-73 (www.jras.ir).
27. **Tabatabaei S.H.** Lalehzari R. Nourmahnad N. and Khazaei M. **2010**. Groundwater Quality and Land Use Change (A Case Study: Shahrekord Aquifer, Iran). *Journal of Research in Agricultural Science* 6(1):39-48 (www.jras.ir).
28. Najafi P. and **Tabatabaei S.H.** **2009**. Comparison of different Hargreaves-Samani methods for estimating potential evapotranspiration in arid and semi-arid regions of Iran. *Research on Crops* 10(2):441-447 (www.cropresearch.org).
29. Najafi P. **Tabatabaei S.H.** and Amini H. **2009**. Effects of Sugar Beet Industrial Wastewater toward Soil Hydraulic Properties. *Research journal of chemistry and environment*. 13(1):37-43. (http://www.chemenviron.org/environ/rjce/chemenviron_rj.htm) **IF(2009)=0.323**
30. **Tabatabaei S.H.** and Najafi, P. **2009**. Effects of irrigation with treated municipal wastewater on soil properties in arid and semi-arid region. *Journal of Irrigation and Drainage (ICID)* 58(5):551-560 (DOI:10.1002/ird.449). **IF(2009)=1.105**
31. Najafi, P. and **Tabatabaei S.H.** **2007**. Effect of using subsurface drip irrigation and ET-HS model to increase WUE in irrigation of some crops. *Journal of Irrigation and Drainage (ICID)* 56(4):477-486 (DOI:10.1002/ird.322). **IF(2007)=0.623**
32. **Tabatabaei S. H.**, Najafi, P. and Amini, H. **2007**. Assessment of Change in Soil Water Content Properties Irrigated with Industrial Sugar Beet Wastewater, *Pakistan Journal of Biological Sciences* 10 (10):1649-1654 (<http://doi.org/10.3923/pjbs.2007.1649.1654>)
33. **Tabatabaei S. H.** and Liaghat, A. **2004**. Use of Zeolite to control heavy metals in municipal wastewater applied for irrigation. *Japanese journal of Ion Exchange*, 15(2):62-67 (<http://www.jaie.gr.jp/index.html>).

5-2- Journal Papers (In Persian):

1. Ansari samani F. **Tabatabaei S.H.**, Abasi F. and Alaiee E. **2019**. Hydraulic Parameters Sensitivity Analysis of Porous Media at Inverse Solution of Bromide Transport. *JWSS*. 23(3):355-366 (URL: <http://jstnar.iut.ac.ir/article-1-3731-fa.html>).
2. MousaviZadehMojarad R. **Tabatabaei S.H.**, Ghorbani B. Nourmahna N. **2019**. Assessing Relation of Soil Hydrophobicity and Soil Water Content and Determining Threshold Moisture of Organic Soil Samples. *JWSS*. 23(3):289-298 (URL: <http://jstnar.iut.ac.ir/article-1-3695-fa.html>)
3. Zarei M.A. **Tabatabaei S.H.** and Babazadeh H. and Sedghi H. **2015**. Determining the best radiation model for Hargreaves-Samani equation in Shahrekord plain under lysimeter condition. *Iranian Water Research Journal*. **Accepted for publication**.
4. Nouri M.R. Bakhshi V. and **Tabatabaei S.H.** **2014**. Effect of furrow bed slope on application efficiency and distribution uniformity. *Irrigation Science and Engineering*. Shahid Chamran University. **Accepted for publication**.
5. Lalezari R. and **Tabatabaei S.H.**, Khayatkholghi M. Yarali N.A. and Saba A.A. **2015**. Evaluation of the wastewater's artificial recharge on the water quantity and quality of Shahrekord aquifer. *Environment Journal*.69:221-236.
6. Raeisiyanfard Dashtaki P. **Tabatabaei S.H.**, Hoseinpur A. and Zebardast S. **2014**. Determination of infiltration in furrow irrigation system under variable furrow cross section and bed slope. *Water Resource Engineering Journal*. Marvdasht University. 7:91-102.
7. **Tabatabaei S.H.**, Najafi P. and Taheri H. **2014**. Long-term effects of different irrigation methods with wastewater on heavy metals accumulation in soil. *Soil Management and Sustainable production Journal*. 4:233-249.
8. Rahimian M.H. NouriEmamzade M.R. Hasheminejad Y. **Tabatabaei S.H.** and Neshat E. **2014**. Determination of leaching fraction in Ardakan pistachio orchards through integration of wetting front detector and electromagnetic induction devices. *Soil Research Journal*. 28:163-173.
9. Rezaeepour S. Ghobadinia M. **Tabatabaei S.H.**, Shayannejad M. and NouriEmamzade M.R. **2014**. Soil and Water Science Journal.24:225-238.
10. Rahimian M.H. NouriEmamzade M.R. **Tabatabaei S.H.** and Ghaeminia A.M. **2014**. Investigation of EM38 capabilities for determination of some soil physical properties. *Soil Research Journal* 28:197-207.
11. Raiesi T. Beigi-Harchegani H.A. and **Tabatabaei S.H.** **2014**. Simulating bromide transport using MACRO 5.0 model in a saline soil under three conjunction irrigation schemes of fresh and saline waters. *Iranian Journal of Irrigation and Drainage*.3:271-280.
12. Nourmahnad N. **Tabatabaei S.H.**, Houshmand A.R. Nouriemamzadei M.R. and Ghorbanidashtaki Sh. **2014**. Heating effects on water repellency and some of physical and chemical properties of soil. *Soil and Water Science Journal*. 18:43-52.
13. Asemanrafat M. **Tabatabaei S.H.**, Noushadi M. and Beigiharchegani H.A. **2014**. Liquid phase adsorption of Ni, Cd and Pb on zeolite affected by zeolite size and concentration of solution. *Soil and Water Science Journal* 68:23-30.
14. Taheri H. **Tabatabaei S.H.**, Ghobadinia M. and Kazemian H. **2014**. Influence of natural zeolite on the soil nitrates irrigated with sewage: Study on application method, particle size and dosage of zeolite. *Soil and Water Science Journal*. 18(67):47-57.
15. Morshedi A. Naderi M. **Tabatabaei S.H.** and Mohammadi J. **2014**. Evaluation of Alfalfa reference crop evapotranspiration (E_{Tr}) to Grass reference crop evapotranspiration (E_{To}) ratio in Shahrekord Plain. *Soil and Water Science Journal*. 17(66): 85-96.
16. Mirzaei S.M.J. **Tabatabaei S.H.**, Heidarpour M. and Najafi P. **2014**. Effect of compost's leachate on some physical and hydraulic characteristics of soil enriched by zeolite. *Soil and Water Science Journal*. 17(66): 37-48.
17. Asemanrafat M. **Tabatabaei S.H.** and Noushadi M. **2014**. Adsorption of Lead, Nickel and Cadmium from aqueous phase using Amberlite IR-120. *Iranian Water Research Journal*. 7(13):197-204.
18. Zebardast S. **Tabatabaei S.H.** and Ghorbani B. **2014**. Simulation of advance curve in furrow irrigation system under constant and cut-back inflow. *Water Research in Agriculture Journal*. 27(3): 369-378.
19. Khoshdooz N. Babazadeh H. **Tabatabaei S.H.** and Naderi M. **2013**. Developing of modified DRASTIC model to determine groundwater vulnerability in a coastal region (Case study: Kish Island). *Journal of Soil and Water Conservation*.3:19-31.

20. RiahiFarsani H. NouriEmamzade M.R. Fatahi R.A. and Tabatabaei S.H. 2013. Evaluating of furrow irrigation systems in Shakrekord, Borojen and Khanmirza plains and present practical measures for improvement of the systems. *Irrigation Science and Engineering Journal*. 37:96-104.
21. Nourmahnad N. Tabatabaei S.H. NouriEmamzade M.R. GhorbaniDashtaki Sh. and Hoshmand A.R. 2013. Determination of water retention curve and van Genuchten equation's parameters in hydrophilic and heated hydrophobic soils. *Soil Research Journal*. 27:573-582.
22. MardaniNezhad S. Zare Abyaneh H. Mohamadkhani A.R. and Tabatabaei S.H. 2013. Deficit Irrigation Effects On Long Green Pepper Root Development. *Water Research in Agriculture Journal*. 27:241-253.
23. Taheri H. Ghobadinia M. Tabatabaei S.H. Kazemian H. and Beigiharchegani H.A. 2013. Wastewater parameter change flowing through soil column effected by Zeolite size, percentage and application method. *Water Research in Agriculture Journal*. 27:215-227.
24. Heshmati S.S. Beigiharchegani H.A. Davoudiandehkordi A.R. and Tabatabaei S.H. 2013. Temporal fluctuations of spatial variability of salinity and total dissolved and suspended solids in the Shahrekord groundwater. *Iranian Water Research Journal*. 7:33-44.
25. Lalehzari R. and Tabatabaei S.H. 2013. Simulation of subsurface dam construction in Shahrekord aquifer on the water storage capacity and nitrate distribution. *Soil and Water Science Journal*. 17(65): 25-38
26. Falahati-MarvastA. HosseinpurA.R. and Tabatabaei S.H. 2013. Effect of salinity and sewage sludge on heavy metal availability and uptake by barley plant. *Journal of Water and Soil* 27(5): 985-997.
27. Ghani F. Tabatabaei S.H. and Ghorbanidashtaki Sh. 2013. The effect of gravel and sample diameter on water flow in soil. *Soil Management Journal*. 1(1):19-29.
28. Ghani F. Tabatabaei S.H. Shayannejad M. and Ghorbanidashtaki Sh. 2013. Comparison of Four field Methods for Measuring Saturated Hydraulic Conductivity. *Water Resource Engineering Journal*. Marvdasht University. 5: 57-68.
29. Emdad M.R. and Tabatabaei S.H. 2013. Effect of irrigation water quality (salinity –sodicity) on soil infiltration and application efficiency in furrow irrigation. *Iranian Water Research Journal*. 7(12):151-157.
30. Tabatabaei S.H. and Ghazali M. 2011. Accuracy of interpolation methods in estimating the groundwater level (Case study: Farsan-Jooneghan and SefidDasht aquifers). *Soil and Water Science Journal* 15(57):11-22.
31. Tabatabaei S.H. Nouri M.R. Aliyari H. and Mohammadkhani A.R. 2011. Effect of deficit irrigation on Bean root water uptake in different depths. *Journal of Water and Irrigation Management* 13(2):1-14.
32. Saadatpour A. Heidarpor M. and Tabatabaei S.H. 2011. Determination of complete mixing length in a rectangular flume. *Iranian Water Research Journal* 4(9):1-10.
33. XU GM. and Tabatabaei S.H. 2010. Introducing Some PTF for Soil Physical Properties in Bank of Yangtze River, Nanjing District. *Journal of Research in Agricultural Science* 6(2):65–73.
34. Lalehzari R. Tabatabaei S.H. and Yarali N. 2009. Variation of monthly nitrate contamination of groundwater in Shahrekord aquifer and its mapping using GIS. *Iranian Water Research Journal* 3(4):9-17.
35. Lalehzari R. and Tabatabaei S.H. 2009. Groundwater quality analysis in Shahrekord aquifer. *Environmental Journal* 36(53):55-62.
36. Golestani-Kermani. S. Tabatabaei S.H. Shayannejad. M. 2009. Improvement of the volume balance model by adjusting of the water surface storage in furrow irrigation system. *Agriculture Science* 20(1):47-58.
37. Nazem Z. Najafi P. Haj-Rasooliha SH. and Tabatabaei S.H. 2008. Evaluating the effects of using Iran's natural Clinoptilolite zeolite in landfills on reducing the amount of dissolved salt in the leachate of Isfahan organic fertilizer factory. *Iranian Water Research Journal* 1(1):43-53.
38. Zarei M.A. Tabatabaei S.H., Shayannejad M. and Beigi H. 2007. Evaluation of soil salinity distribution under three irrigation scenarios in basin irrigation system. *Agriculture science research journal* 3(2):196-206.
39. Tabatabaei S.H., and GolestaniKermani, S. 2007. Maximum and Minimum Volume of Reference Evapotranspiration base on Wet and Dry seasons in Chahrmahal-Bakhtiyari Province, *Journal of Agriculture Research* 2(2):87-98.
40. Tabatabaei S.H. Tavasoli, M. Eslamian S. S. and Ahmadzadeh, G. A. 2006. Evaluation of Isfahan groundwater contamination with emphasis on drinking water. *Journal of agriculture science* 29(2):79-92.

41. **Tabatabaei S.H.**, Fardad, H. Neyshabory M. R. and Liaghat, A. 2006. Simulation model for seasonal variation of infiltration equation in heavy soils with two crop residue managements. *Journal of science and technology of agriculture and natural resources*. 10 (1):55-69
42. **Tabatabaei S.H.**, Neyshabory, M.R. Fardad, H. and Liaghat, A. 2005. Agricultural management effect on soil basic infiltration rate in surface irrigation. *Journal of Soil and Water*. 19(2):255-262
43. **Tabatabaei S.H.**, Fardad, H., Neyshabory, M. R. and Liaghat, A. 2004. Seasonal and spatial variation of furrow cross section. *Journal of agricultural and natural resources science* 11(2):171-179
44. **Tabatabaei S.H.**, Tavasoli, M. and Liaghat, A. 2002. Evaluation of physical property of three type of zeolite for heavy metal treatment. *Journal of water and Wastewater* 42:68-70.
45. **Tabatabaei S.H.**, Allahyari, M. H. and GhasediRody, H. 2002. Introduction to Zeolite and its ability in aquaculture, *Journal of Aquaculture*, Vol.37
46. **Tabatabaei S.H.**, Lalehzari R. Nourmahnad N. and Khazaei M. 2010. Groundwater Quality and Land Use Change (A Case Study: Shahrekord Aquifer, Iran). *Journal of Research in Agricultural Science* 6:39-482.
47. **Tabatabaei S.H.** and Khaledi, H. 2001. Introduction to Zeolite and its use in wastewater treatment: part I, *Journal of water and Environment*, Vol.49.
48. **Tabatabaei S.H.** and Allahyari, M. H. 2001. Pump station, problem and solving ways in aquaculture: Part IV, *Journal of Aquaculture*, Vol.36
49. **Tabatabaei S.H.** and Khorasanynejad, S. R. 2001. Pump station: problem and solving ways in aquaculture; Part III, *Journal of Aquaculture*, Vol.35
50. **Tabatabaei S.H.** and Allahyari, M. H. 2001. Pump station, problem and solving ways in aquaculture: Part II, *Journal of Aquaculture*, Vol.33
51. **Tabatabaei S.H.** and Allahyari, M. H. 2000. Pump station, problem and solving ways in aquaculture: Part I, *Journal of Aquaculture*, Vol.32

5-3- Conference papers:

1. Pessarakli, Mohammad, **Tabatabaei S.H.**, Mahsa Mohkamkar, Fatemeh Ranjbar, and David M. Kopec. 2016. Growth Responses of Seashore Paspalum (*Paspalum vagenitum* Swartz) to Alternate Levels of Salinity Stress. ASA-CSSA-SSSA International Annual Meetings, Nov. 6-9, 2016, Phoenix, Arizona.
2. **Tabatabaei S.H.**, Hua Zhong, Erin J. Abel, Zhouwei Miao Jim Field, and Mark L. Brusseau. 2016. Impact of Electron Donor Injection on In-situ Biosequestration of Uranium. 2015 Fall Meeting. 14-18 December 2015. San Francisco, CA, USA.
3. Pessarakli, Mohammad, **Tabatabaei S.H.**, David M. Kopec, and Jeffrey J. Gilbert. 2015. Field Study of the Growth Responses of Tall Fescue to Various Bio-Stimulants. ASA-CSSA-SSSA International Annual Meetings, Nov. 15-18, 2015, Minneapolis, Minnesota.
4. Mardaninejad, S., H. Zarebyaneh, **Tabatabaei S.H.**, and Mohammad Pessarakli. 2015. Root Water Uptake of Pepper Plants under Deficit Irrigation System. ASA-CSSA-SSSA International Annual Meetings, Nov. 15-18, 2015, Minneapolis, Minnesota.
5. Mousavi, Seyed Mohammad, **Tabatabaei S.H.**, Seyed Majid Mirlatif, and Mohammad Pessarakli. 2015. Soil Electrical Conductivity Changes Due to Subsurface Drip Irrigation in Turfgrass Field Using Municipal Treated Wastewater. ASA-CSSA-SSSA International Annual Meetings, Nov. 15-18, 2015, Minneapolis, Minnesota.
6. Nourmahnad N. and **Tabatabaei S.H.** 2014. The effects of water repellency on soil quality index of heated soil. The 1st International Conference on New Ideas in Agriculture. 26-27 Jan 2014. Isfahan. Iran.
7. Balochestani Z. Najafi P. **Tabatabaei S.H.**, Asgari K. Samadi N. Mohammadinasab SH and Mohammadi M. 2014. Assessment of efficient of organic and inorganic sorbent materials to remove nitration forms. The 1st International Conference on New Ideas in Agriculture. 26-27 Jan 2014. Isfahan. Iran.
8. **Tabatabaei S.H.**, Heidarpour M. Ghasemi M. and Hoseinipour E.Z. 2013. Transverse Mixing Coefficient on Dunes with Vegetation on a Channel Wall. World Environmental & Water Resources Congress. MAY 19-23, 2013. CINCINNATI. OHIO. USA.
9. **Tabatabaei S.H.**, Beigi H. Fathi E. and Hoseinipour E.Z. 2013. Time-dependency of nitrate and phosphate concentrations with aquifer vulnerability indexes: a case study in Shahrekord aquifer, Iran. World Environmental & Water Resources Congress. MAY 19-23, 2013. CINCINNATI. OHIO. USA.
10. Khoshdooz N. Babazadeh B. Naderi M. Shirani M. Hoseinipour E.Z. and **Tabatabaei S.H.** 2013. Spatial and Seasonal Variability of Groundwater Quality in Kish Island. First International conference on Environmental Crisis and its Solutions, Feb 13-14 2013. Kish Island, Iran.

11. **Tabatabaei S.H.**, Asemanrafat M. and Nousahdi M. **2012**. Removal of Lead from aqueous phase using Amberlite and natural Zeolite. *Proceedings of the 16th International Conference on Heavy Metals in the Environment (ICHMET2012)*. 23-27 September, 2012. Rome. Italy. <http://dx.doi.org/10.1051/e3sconf/20130113010>.
12. Nourmahnad N. and **Tabatabaei S.H.** **2012**. Changes of Soil Quality Index under Different Applied Temperature. *VIII International Soil Science Congress "Land Degradation and Challenges in Sustainable Soil Management"*, May 15–17, 2012. Çeşme, İzmir, TURKEY.
13. **Tabatabaei S.H.**, Mohsenifar K. Pazira E. and Najafi P. **2011**. Simulation of soil texture/rainfall effect on Zayandehrood River basin pollution using GIS/ANN. *International Symposium on Environmental Protection and Planning (ISEPP)*. 28-29 June 2011. Izmir. Turkey.
14. Lalehzari R. **Tabatabaei S.H.** and Kholghi M. **2010**. Hydrodynamic Coefficients Estimation and Aquifer Simulation Using PMWIN Model. *Fourteenth International Water Technology Conference 2010, CAIRO, EGYPT*.
15. Najafi P. and **Tabatabaei S.H.** **2009**. Application of sand and geotextile envelope in subsurface drip irrigation. *ICPTT2009 (ASCE)*. Beijing, China PP:2026-2031.
16. **Tabatabaei S.H.**, Aghababaei M. Najafi P. and Ghazavi M.A. **2009**. Evaluation of Four Cultivation Types on Distribution Uniformity (DU) in Border Irrigation System, *ISTRO 18th Triennial Conference Proceedings*, June 15-19, 2009 Izmir-TURKEY
17. **Tabatabaei S.H.** and Lalehzari .R. **2009**. Determination of the contaminant sources by mapping tools in Shahrekord aquifer, Iran. *International Symposium on Efficient Groundwater Resources Management*. Bangkok, Thailand.
18. Mirzaei F. and **Tabatabaei S.H.** **2008**. GIS Assessment of site suitability for Serial Biological Concentration (SBC) Technique. *12th International Conference on Integrated Diffuse Pollution Management (IWA DIPCON 2008)*. August .Kaen University, Thailand.
19. Akasheh, L. **Tabatabaei S.H.**, Najafi, P. and Afyuni, M. **2008**. Assessment of main cation exchange in the leachate of Compost by the Natural Zeolite. *Iran International Zeolite Conference (IIZC'08) April 29 - May1, 2008, Tehran –Iran (www.iizc08.com)*.
20. Nazem, Z. **Tabatabaei S.H.** and Najafi, P. **2008**. Assessment of soil-Zeolite power for Cl^- and HCO_3^- adsorption from leachate of garbage. *Iran International Zeolite Conference (IIZC'08) April 29 - May1, 2008, Tehran – Iran (www.iizc08.com)*.
21. **Tabatabaei S.H.**, Xu, GM. and Najafi, P. **2008**, Estimation of soil physical properties using Pedotransfer function in the bank of Yangtze River of CHINA. *Twelfth International Water Technology Conference, IWTC12 2008, Alexandria, Egypt*. 1577-1585 (www.iwtc.info).
22. Najafi, P. and **Tabatabaei S.H.** **2008**. Effect of SDI filtration on wastewater quality for irrigation. *Twelfth International Water Technology Conference, IWTC12 2008, Alexandria, Egypt*. 837-844 (www.iwtc.info).
23. **Tabatabaei S.H.**, Najafi, P. and Yazdanpanah, H. **2007**, Evapotranspiration in Azarbaijan province by using of ET-HS model and GIS, *Proceeding of South Asian Conference on Water in Agriculture: Management options for increasing crop productivity per drop of water*, November 15-17, 2007, Raipur, India.
24. **Tabatabaei S.H.**, P. Najafi, M. R. Neyshabouri and H. Amini, **2006**, Change of soil water content in a soil irrigated by sugar beet industry wastewater, *Proceeding of International Soil Meeting (ISM) on "Soils Sustaining Life on Earth (Managing Soil and Technology)"* May 22-26, 2006 Sanliurfa-Turkey.
25. **Tabatabaei S.H.** and H. Samadibroujeni, **2006**, Establishment of a water market for the projects of water transfer from Karun basin to the neighboring basins, *III International Symposium on Transboundary Waters Management*, May 30-2 June 2006, Ciudad Real, Spain.
26. **Tabatabaei S.H.** and A. Liaghat, **2005**, Heavy metals treatment from industrial wastewater for agricultural use, *Proceeding of the 9th International water technology conference*, March 17 - 20, 2005, Sharmalshikh, Egypt (<http://www.iwtc.info>).
27. Najafi, P. and **Tabatabaei S.H.**, **2005**, Comparison of different Hargreaves-Samani methods for estimating potential evapotranspiration in arid and semi-arid region of Iran, *Proceeding of the 19th International Congress of ICID*, 10- 18 September 2005, Beijing, China (www.icid2005.org).
28. **Tabatabaei S.H.** and P. Najafi, **2005**, Effects of treated municipal wastewater injection with different irrigation methods in soil quality parameters, *proceeding of 9th Conference on Environmental Science and Technology (CEST2005)*, Sep 2005, Rhodes Island, Greece, P-901-908 (<http://www.gnest.org/cest>).
29. **Tabatabaei, S. H**, and H. Yazdanpanah, **2005**, Assessment of meteorological drought using SPI model and GIS in Azerbaijan, *Map middle east 2005*, 22- 25 April 2005, Dubai, United Arab Emirate (www.mapmiddleeast.org).
30. **Tabatabaei S.H.**, M. Tavasoli and N. Yarali, **2005**, Assessment of Isfahan groundwater contamination with emphasis on drinking water aspect, *Proceeding of the 7th international conference on new idea in Geo science*, 2005, Moscow, Russia.
31. **Tabatabaei, S. H**, and P. Najafi, **2004**, Effects of treated municipal wastewater injection with different irrigation methods in soil quality parameters, *2004 CIGR International Conference*. 11- 14 October 2004, Beijing, China.

32. **Tabatabaei S.H.**, H. Fardad, M. R. Neyshabory and A. Liaghat, **2004**, Simulation model for seasonal variation of infiltration equation in heavy soils with two crop residue managements, 4th International Iran and Russia Conference on "Agriculture and Natural Resources, September 2004, Shahrekord, Iran.
33. **Tabatabaei S.H.**, H. Fardad, M. R. Neyshabory and A. Liaghat. **2004**, Simulation model for seasonal variation of infiltration equation in heavy soils with two crop residue managements, International Soil Congress (ISC) on Natural Resource Management for Sustainable Development. June 7-10, 2004, Erzurum, Turkey.
34. Khaledi, H., **Tabatabaei, S.H.**, and M. Tavasoli, **2003**, Evaluation of Isfahan groundwater contamination with emphasis on drinking water, Second International conference on water quality, New Delhi, India.
35. Eslamian, S. S, **Tabatabaei, S.H.**, J. Abedi Koupai and R. Nazari, **2003**, A Mathematical & Management model of Ground Water with Emphasis on Artificial Recharge for Damaneh Plain, Isfahan Province of Iran, The Second International Conference on Salt Water Intrusion and Coastal Aquifers, Mirada, Mexico.
36. **Tabatabaei S.H.**, A. Liaghat and M. Heidarpour Esfarjani, **2001**, Use of Zeolite to control heavy metals in municipal wastewater applied for irrigation, Young World Water Conference, YWWF, Velesingen, Netherlands (www.ywwf.net)
37. Reisi, T. and **Tabatabaei S.H.** **2008**. Assessment of some practical model for estimation of soil Evaporation under three irrigation scenarios with saline water. Ninth national seminar on irrigation and Evapotranspiration. Feb 2008. Kerman. Iran (www.uk.ac.ir).
38. **Tabatabaei S.H.** Zarei, M. A. and Emdad, M. R. **2008**. Evaluation of FAO-56 coefficient for estimation of soil Evaporation under three irrigation scenarios with saline water. Ninth national seminar on irrigation and Evapotranspiration. Feb 2008. Kerman. Iran (www.uk.ac.ir).
39. GolestaniKermani, S. Shayannejad, M. and **Tabatabaei S.H.** **2008**. Estimation of advance time with using improved volume balance model in furrow irrigation. Ninth national seminar on irrigation and evapotranspiration. Feb 2008. Kerman. Iran (www.uk.ac.ir).
40. Nazem, Z. Najafi, P. and **Tabatabaei, S.H.** **2008**. Assessment of Zeolite application on soil water content in the condition of leachate reuse of Isfahan Compost Company. Ninth national seminar on irrigation and Evapotranspiration. Feb 2008. Kerman. Iran (www.uk.ac.ir).
41. Lalezari, R. and **Tabatabaei S.H.** **2007**. The fate of chemical quality in Shahrekord aquifer groundwater on inlet and outlet sections, Proceeding of 2ed Conference on Groundwater November 15, 2007, Behbahan Azad University, Khozestan, Iran.
42. GolestaniKermani, S. **Tabatabaei S.H.** and Shayannejad, M. **2007**, Evaluation of improved volume balance model for estimation of advance front in furrow irrigation system. Proceeding of 6th national Iranian hydraulic conference. 23-25 September, Shahrekord, Iran.
43. Najafi, P. and **Tabatabaei S.H.** and H. Amini, **2006**, Evaluation of soil infiltration variability in a soil irrigated by sugar beet industry wastewater, Proceeding of 2ed Conference on New idea in Agriculture, December 23-25, 2006, Khorasgan Azad University, Isfahan, Iran.
44. **Tabatabaei S.H.** and Nouri, M. R. **2006**, Groundwater modeling restriction in CHB province. Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins. 5-6 Sept 2006, Shahrekord, Iran.
45. Nourmahnad, N. and **Tabatabaei S.H.** **2006**, Estimation of total evapotranspiration in wet and dry years in Isfahan province. Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins. 5-6 Sept 2006, Shahrekord, Iran.
46. Najafi, P. **Tabatabaei S.H.** and Savoj R. **2006**, Comparison of Zayandehrood water quality between Polkaleh and Lenj hydrological stations. Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins. 5-6 Sept 2006, Shahrekord, Iran.
47. GolestaniKermani, S. and **Tabatabaei S.H.** **2006**, Estimation of the maximum and minimum of evapotranspiration CHB province in wet and dry years. Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins. 5-6 Sept 2006, Shahrekord, Iran.
48. Fathaliyan, F. **Tabatabaei S.H.** and Najafi, P. **2006**, Validation of the ASCE-Penman-Montiith-FAO model for Shahrekord plain base on the lysimeteriy data. Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins. 5-6 Sept 2006, Shahrekord, Iran.
49. Abedi, A. and **Tabatabaei S.H.** **2006**, Economical analysis of the watershed management projects in CHB province. Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins. 5-6 Sept 2006, Shahrekord, Iran.
50. **Tabatabaei, S. H.**, P. Najafi and H. Amini, **2006**, Assessing of soil water content properties change in a soil irrigated by Isfahan sugar beet industry wastewater, Proceeding of second conference on watershed and soil/water management, 23-24 Feb 2005, Kerman, Iran P:1626-1636.

51. **Tabatabaei, S. H.**, P. Najafi and H. Amini, **2005**, Assessing of soil hydraulical properties change in a soil irrigated by Isfahan sugar beet industry wastewater, 2ed congress on renewable natural resource and recycling in agriculture, Nov. 2005, Khorasgan Azad University, Isfahan, Iran (www.khuisf.ac.ir).
52. **Tabatabaei, S. H.**, **2005**, Evaluation of saline soil and irrigation water salinity interaction in arid and semiarid region, proceeding of conference on agriculture in arid and semiarid region, March 2005, Ardestan, Iran.
53. **Tabatabaei S.H.**, H. Fardad, M. R. Neyshabory and A. Liaghat, **2003**, Agricultural management effect on soil basic infiltration rate in surface irrigation, 11th Iranian national congress on irrigation and drainage, Tehran, Iran.
54. Najafi, P. and **Tabatabaei S.H.**, **2004**, Effects of using sub-surface drip irrigation and ET-HS model to increasing WUE in irrigation of some crops, 2004 CIGR International Conference. 11- 14 October 2004, Beijing, China.
55. **Tabatabaei S.H.**, and F. Mirzaei, **2002**, Evaluation of infiltration equation fit method by the field experiment, First student national soil and water Conference, Urumia, Iran.
56. Khaledi H. and **Tabatabaei S.H.**, **2002**, Water scarcity index and evaluation in the world and Iran, First student national soil and water Conference, Urumia, Iran.
57. **Tabatabaei S.H.**, M. Tavasoli and A. Liaghat, **2001**, Evaluation of physical property of three type of zeolite for heavy metal treatment, 4th Iranian national conference on environmental protection, Shahid Sadoghi Yazd University, October 2001, Yazd, IRAN.

5-4- Book

1. **Tabatabaei S.H.** Najafi P. and Golestani S. **2014**, Surface irrigation. Islamic Azad University, Khorasgan branch press.
2. **Tabatabaei S.H.** Najafi P. and N. Nourmahnad **2011**, Fundamental of Drainage Engineering, Islamic Azad University, Khorasgan branch press.
3. **Tabatabaei S.H.** and M. Shayannejad, **2010**, Fundamental of irrigation engineering, Shahrekord University press.
4. **Tabatabaei S.H.** and Samadi, H. **2006**, Abstract Proceeding of the 1th regional conference on sustainable use of soil and water in Karun and Zayandehrood basins, Shahrekord University press. ISBN: 964-7665-11-3
5. **Tabatabaei S.H.** and H. Khaledi, **2002**, Small-Scale Irrigation for Arid Zone, By Iranian National Committee on Irrigation and Drainage. ISBN: 964-6668-40-2.

6- List of Honors, Awards and Official Positions:

6-1- Official

1. Associate Professor, Department of Water Engineering, Faculty of Agriculture, Shahrekord University, **2011- Continue**.
2. Vice Dean of Research Affairs and Graduate Program Advisor, Faculty of Agriculture, Shahrekord University, **2009- 2014**.
3. Member of research council, Jihad Daneshgahy, CHB branch, **2007- 2010**
4. Member of Environmental research group, Jihad Daneshgahy, CHB branch, **2006- 2010**
5. Part time academic staff, Payam Noor University, Shahrekord Branch, **2005- 2009**
6. Assistant Professor, Department of Water Engineering, Faculty of Agriculture, Shahrekord University, **2004- 2011**.
7. Part time academic staff, Islamic Azad University, Khorasgan Branch, **2000- 2006**.
8. Member of research council, Jihad Daneshgahy, Central branch, Tehran, **1998- 2000**.

6-2- Editorial board in journal

1. Editorial board of: International Water Technology Journal, Cairo, Egypt. **2011-continue** (www.iwtj.info)
2. Editorial board of: International Journal of Recycling of Organic Wastes in Agriculture, Isfahan, Iran. **2011-continue** (www.springer.com).
3. Editorial board of: Gomal Journal of Agriculture and Environmental Science, Islamabad, Pakistan (www.gu.edu.pk). **2009-2012**.
4. Editorial board; Iran water research journal. **2007- continue**
5. Editor-in-Chief; Iran water research journal. **2007- 2009 and 2011-2013**

6-3- Scientific committee (SF) of congress

1. Scientific committee board of: 6th International Conference: Water Resources and Sustainable Development, May 25-26, **2015**, Blida, Algeria (<http://ensh.dz>).
2. Scientific committee board of: The 17 International Water Technology Conference, 7-10 September **2013**, Istanbul, Turkey (www.IWTTC.info).
3. Scientific committee board of: The 5th Int. Conf. on water resources and sustainable development (CIRED2013) 24-25 February **2013**. Blida, Algeria (<http://ciredd.ensh.dz>).

4. Scientific committee board of: The 16 International Water Technology Conference, 7-10 May 2012, Istanbul, Turkey (www.IWTC.info).
5. Scientific committee board of: The 1th Int. Congress on Recycling of Organics Wastes in Agriculture. 26-27 April. 2012, Isfahan, Iran (<http://crowa.khuisf.ac.ir>)
6. Scientific committee board of: The 6th International Congress Geotunis. 26-30 March 2012, Tunisia, Tunisia. <http://www.geotunis.org/2011>
7. Scientific committee board of: The 5th International Congress Geotunis. 29 November- 3 December 2010, Tunisia, Tunisia. <http://www.geotunis.org/2010>
8. Scientific committee board of: The 5th Int. Conf. on water resources and sustainable development (CIREDD2013) 24-25 February 2013. Blida, ALGERIA (<http://ciredd.ensh.dz>).
9. Scientific committee board of: The 16 International Water Technology Conference, 7-10 May 2012, Istanbul, Turkey (www.IWTC.info).
10. Scientific committee board of: The 1th Int. Congress on Recycling of Organics Wastes in Agriculture. 26-27 April. 2012, Isfahan, Iran (<http://crowa.khuisf.ac.ir>)
11. Scientific committee board of: The 6th International Congress Geotunis. 26-30 March 2012, Tunisia, Tunisia. <http://www.geotunis.org/2011>
12. Scientific committee board of: The 5th International Congress Geotunis. 29 November-3 December 2010, Tunisia, Tunisia. <http://www.geotunis.org/2010>
13. SF: Third national congress of recycling and reuse of organic renewable resource, April 2008, Isfahan, Iran.
14. Oral paper secretary and SF: Sixth Iranian hydraulic conference, September 2007, Shahrekord, Iran.
15. Secretary and SF: First regional conference on sustainable use of soil and water in Karun and Zayandehrood basins, September 2006, Shahrekord, Iran.

6-4- Membership in society and association

1. Member of American Soil Science Society of America, No. 448401, 2015-cont
2. Member of American Geological Union, No. , 2015-cont
3. Member of American Society of Civil Engineering (ASCE), No. 398220, 2002-cont
4. Member of International Water History Association (IWhA), 2004-cont
5. Member of International Association for Hydrologic Science (IAHS), No. 6662, 2000-cont
6. Member of Hydraulic Society of Iran, Environmental Hydraulic Committee, 2000-cont
7. Member of Soil Science Society of Iran, No. 1033, 2000-cont
8. Member of Geological Society of Iran, No. 79280, 2000-cont
9. Central Committee Member of Young Professional Forum (YPF) of IRNCID, 2000-2004.
10. Head of student chapter, IRNCID, University of Tehran, 2000-2003.
11. Member of Iranian National Committee on Irrigation and Drainage (IRNICID), No. 884, 1996-cont

6-5- Visiting soil/water department in:

1. International Agricultural Research and Training Center (IARTC), Izmir, Turkey, 2013, (www.utaem.gov.tr)
2. Gediz University, Faculty of Engineering and Architecture, Izmir, Turkey. 2011. (www.gediz.edu.tr)
3. International Agricultural Research and Training Center (IARTC), Izmir, Turkey, 2011, (www.utaem.gov.tr)
4. Indira Guandi University, Faculty of Agriculture, Raipur, India, 2007, (www.igau.edu.in).
5. University of Putra, Faculty of Agriculture, Putra, Malaysia, 2007, (www.UPM.edu.my).
6. University of Katholic- Leuven, Leuven, Belgium, 2006, (www.kuleuven.be).
7. University of Renne2, Faculty of Natural Resources, Rennes, France, 2006, (www.uhb.fr)
8. University of Castila-La-Manch, Faculty of Civil Eng. Ciudad Real, Spain, 2006, (www.Uclm.es).
9. University of Hohai, Faculty of Civil Eng. Nanjing, P. R. China, 2005 (www.Hohai.edu.cn).
10. Nanjing Hydraulic Research Institute, Nanjing, P. R. China, 2005 (www.nhri.cn).
11. University of Ataturk, Faculty of Agriculture, Arzerum, Turkey, 2004, (www.Ataturk.edu.tr).
12. Istanbul Technical University, Faculty of Civil Eng. Istanbul, Turkey, 2001, (www.ITU.edu.tr).
13. University of Ankara, Faculty of Agriculture, Ankara, Turkey, 2001, (www.Ataturk.edu.tr).
14. Middle East Technical University, Faculty of Civil Eng., Ankara, Turkey, 2001, (www.metu.edu.tr).

6-5- Awards

1. ASCE, EWRI, 2015 Visiting international fellowship (VIF), World Water and Environmental Resources Congress, Austin, Texas, USA, May 17-20 2015.
2. Shahrekord University, 2014, 2015. Visiting Scholar Fellowship, Contaminant transport lab, The University of Arizona, Tucson, Arizona, USA, Oct 2014- July 2015.
3. ASCE, EWRI, 2014 Visiting international fellowship (VIF), World Water and Environmental Resources Congress, Portland, Oregon, USA, June 1-5, 2014.

4. UNESCO- Regional Centre on Urban Water Management- Tehran, 2014 International seminar on use of unconventional water in urban water management, Muscat - Sultanate of Oman.
5. IARTC. 2013. International course on Agricultural Irrigation. Izmir. Turkey.
6. IARTC. 2011. International course on Sustainable Soil and Water Management. Izmir. Turkey.
7. Top rated research member of SKU, 2009.
8. UNESCO, 2005 International water summer camp, Nanjing, China
9. Conference award, 2005, best paper, Islamic Azad university, Khorasgan branch
10. UNESCO, 2001, Sediment transport technology post graduate course, Turkey.

7- Thesis supervision

7-1- Ph.D. Student

1. Nazem Zohreh. 2019. Effect of Preferential Flow Caused by Cracking Paths on Nitrate Transport under Surface and drip Irrigation Systems. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
2. Daneshi Navab. 2019. Experiment of Br Transport in a Layered Soil with Water Repellency property. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
3. Birjandi Vahid. 2019. Predication of Nitrate contamination in a groundwater using Coupla function (Case study: Shahrekord aquifer). Department of Civil Engineering, Faculty of Engineering, Arak Azad University, Arak. (Supervisor).
4. Ahmadimoghadam Zeinab. 2019. Effect of deficit irrigation and biochar on preferential transport of Escherichia coli in soil. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
5. AnsariSamany Faride. 2019. Study of In-Situ Nitrate Removal at Porous Media using Biological Method and Carbon Sources. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
6. MousaviZadehMojarad Reyhanehalsadat. 2019. Effect of different rainfall intensity on runoff and erosion under different levels of soil water repellency and its simulation with physical and Hydrus models. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
7. Shahrokhian Zohreh. 2018. Combined Effects of Water Deficit and Salt Stress on Beans Root Development and Modifying the Feddes Water Uptake Model. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Advisor).
8. Mahdavi Atefeh. 2017. Presentation of optimal cropping pattern considering soil and climate parameters based on the management of groundwater resources in Hamedan-Bahar and Shahrekord plain. Department of Water Engineering, Faculty of Agriculture, Hamedan University, Hamedan. (Advisor).
9. Noroozi Mehrdad. 2017. Study the effects of palm date leaf Biochar on wheat root water uptake under water and salinity stresses conditions. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
10. Asgari Kamran. 2015. Water transport and solute accumulation under subsurface drip irrigation using municipal treated wastewater: experimental and modeling with HYDRUS. Department of Soil Science, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
11. Salmanpour Anahid. 2014. Digital assessment of some of land degradation processes in southeastern Bakhtegan lake, Fars province. Department of Soil Science, Faculty of Agriculture, Shahrekord University, Shahrekord. (Advisor).
12. Zebardast Sonia. 2013. Effect of infiltration, inflow rate and roughness on solute maximum diffusion length in furrow irrigation under laboratory condition. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (Supervisor).
13. Nasr Sharareh 2013. Application of bird's pond water for irrigation and its effect on soil quality using Hydrus. Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, Isfahan, Iran. (Supervisor).
14. Zarei MohammadAmin 2012. Correction of Hargreaves-Samani equation based on different solar radiation models (Case Study: Shahrekord Plain). Department of Water Engineering, Faculty of Agriculture, Islamic Azad University, Science and Research Branch, Tehran. (Supervisor).

15. Nourmahnad, Negar. **2011**. *Evaluation and adjustment of Van Genuchten equation and simulation of water transport in repellent soils and furrow irrigation system*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, Shahrekord. (**Supervisor**).
16. Morshedi, Ali. **2011**. *Prediction and mapping actual evapotranspiration by remotely sensed data in Shahrekord plain*. Department of Soil Science, Faculty of Agriculture, Shahrekord University, Shahrekord. (**Supervisor**).
17. Mohsenifar, Kamran. **2008**. *Simulation of soil, climate and basin's effects on Zayandehrud River water quality by Artificial Neural Networks (ANN)*. Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Science and Research Branch, Tehran. (**Supervisor**).

7-2- MSc. Student

1. Behjati Manizheh. **2014**. *Evaluation of Pedo-transfer functions for estimating soil water repellency retention curve*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Advisor**).
2. Ghahrman-Shahraki Marizheh. **2014**. *Predication of Shahrekord aquifer vulnerability in future with consideration of climate change effect*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Advisor**).
3. Ghorbani Mahnaz. **2013**. *Application of controlled drainage on water quality at the outlet of drainage areas with saline groundwater*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
4. Shirvani Hamid. **2013**. *Decreasing of nitrate concentration and TSS of urban wastewater using combined geotextile-zeolite filters*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
5. Nasiri Mina. **2013**. *Effect of irrigation with dairy effluent on Maize yield and properties in a calcareous soil*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
6. Nazemsadat Narjes. **2013**. *Effect of sewage sludge on soil hydrophobicity and surface evaporation in two different soil textures*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
7. Malakouti Elham, **2013**. *Different Substrates Assessment on Heavy Metals Filtration of Industrial Waste Water in Company*. Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, (**Advisor**).
8. Balouchestani-asl Zahra, **2013**. *Assessment of Vermiculite and Rice Husk Substrates Using Effect in Pitcher Irrigation System on Macro Elements Filtration of Industrial Waste Water in Steel Company*. Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, (**Advisor**).
9. Khoshdooz Niloofar. **2012**. *Assessment of Kish island aquifer vulnerability using DRASTIC and modified DRASTIC models*. Department of Water Engineering, Faculty of Agriculture, Islamic Azad University, Science and Research Branch, Tehran. (**Supervisor**).
10. Hajhashemkhani Maryam **2012**. *Application of modified micro-zeolite mixed with soil on some hydraulic and chemical parameters of soil in wastewater use condition*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University. (**Advisor**).
11. Falahatimarvast Ali. **2012**. *Effect of soil salinity on Cd, Pb and Ni absorption by barley (*Hordeum vulgare*) plant in two sewage sludge treated soils*. Department of Soil Science, Faculty of Agriculture, Shahrekord University. (**Advisor**).
12. Rahimian Mohammadhassan **2012**. *Application of Surface Energy Balance Algorithm for Land (SEBAL) for estimation of Pistachio evapotranspiration under saline water/soil condition*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
13. Rahimikhani Yousef. **2012**. *Efficiency of measured soil water retention data with pressure plate apparatus for simulating water movement in water repellent soils*. Department of Soil Science, Faculty of Agriculture, Shahrekord University. (**Supervisor**).
14. Raisianfard Parivash. **2012**. *The evaluation of fertilizer leaching losses in a furrow irrigation system as influenced by furrow cross section and slope*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
15. Mousavi Sayedmohammad. **2012**. *Depth and distance effects of emitter placement on grass growth and some of chemical and Microbial parameters of soil in terms of using water and wastewater*. Department of Water Engineering, Faculty of Agriculture, Tarbiat Modares University, (**Supervisor**).
16. Barkhordarian, Zahra, **2012**. *Sensitivity analysis of effecting parameters on three soil infiltration measurement methods in furrow irrigation*. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).

17. Tahrisodejani, Hajar, 2011. *The effect of Shahrekord treated wastewater on chemical and physical properties of Shahrekord university's soil enriched by Zeolite micro particle.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
18. Ghani, Fatemeh, 2011. *Determination of representative elementary diameter for laboratory measurements of soil hydraulic properties.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
19. EbrahimiBroujeni, Mojdeh. 2011. *Evaluation of using Geotextile Envelope on Soil Wetting Pattern in Subsurface Drip Irrigation.* Department of Water Engineering, Faculty of Agriculture, Zanjan University (**Advisor**).
20. Ziaei, Sayyed Davoud, 2010. *Evaluation of southern part of Isfahan city's subsurface water, origin, quantity and quality.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
21. Riahi-Farsani, Hamed. 2010. *Evaluating of furrow irrigation system in Shahrekord, Borojen and Khanmirza plains to improve performance of the systems.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University (**Advisor**).
22. Karizan, Ali. 2010. *The Use of Deficit Irrigation Techniques on Wastewater Reuse on Maize Cropping in Tape Irrigation System (T-Tape).* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
23. Ajalooiean, Sanaz. 2009. *Effects of three dripper's envelope types around the Subsurface drip irrigation system in the condition of wastewater reuse.* Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, (**Advisor**).
24. Aghababaei, Mitra. 2009. *Evaluation of underground dam position using GIS and decision making models (Case study: Shahrekord plain).* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
25. Amirchakhmaghi, Narjeskhatoon. 2009. *Drought periods determination in CHB province forests using Quercus incremental rings.* Department of Forestry, Faculty of Natural Resources and Earth Science, Shahrekord University, (**Supervisor**).
26. Aliyari, Hamideh, 2009. *Effects of water stress on root distribution and water uptake of Phaseolus vulgaris var. chiti.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
27. Khataminejad, SayyedAli. 2008. *Assessment of a Fractal model in prediction of saturated hydraulic conductivity.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
28. Mahdavi, Atefeh. 2008. *Identification of the artificial recharge sites thorough fuzzy and Boolean logic approach in Shahrekord plain.* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
29. Karimi, Rasool, 2008, *Evaluation of some chemical absorber in land treatment of Babol landfill pilot.* Department of Soil Science, Faculty of Water and Soil Engineering, College of Agriculture and Natural resources, Tehran University, (**Advisor**).
30. ShiraziAliyan, Pooya, 2008, *The Effect of Vegetation on Process of Dispersion of Pollution in a Rectangular channel.* Department of Water Engineering, Faculty of Agriculture, Isfahan University of Technology, (**Advisor**).
31. Saadatpour, Alieh, 2007, *Investigation of local roughness effect on transverse mixing coefficient in an open rectangular channel.* Department of Water Engineering, Faculty of Agriculture, Isfahan University of Technology, (**Advisor**).
32. Lalehzari, Reza, 2007, *Fate of nitrate distribution in Shahrekord aquifer by using of a mathematical model,* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
33. Lanjabi, Manijeh, 2007, *Soil wetting pattern under subsurface drip irrigation with a Geotextile filter,* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
34. Moslehi, Shima, 2007, *Determination of best condition soil moisture in greenhouse cucumber and improvement evapotranspiration models,* Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, (**Advisor**).
35. MostashfiHabibabadi, Fatemeh, 2007, *Effect of three irrigation strategy with saline water on yield of two sunflower cultivars,* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Advisor**).
36. Zamaniyan, Mohammad, 2007, *Assessment of chemical and microbial index in land treatment of leachate of Isfahan compost factory and effect of Zeolite application,* Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).

37. ReisiGahrouei, Tahereh, **2007**, Study of solute transport using bromide tracer under three Irrigation management scheme in a saline soil, Department of Soil Science, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
38. Mirzaei, SayyedMohammadJavad, **2007**, Assessment of land treatment of leachate of Isfahan compost factory and effect of Zeolite application on the process, Department of Water Engineering, Faculty of Agriculture, Isfahan University of Technology, (**Supervisor**).
39. Nazem, Zohreh, **2006**, Effects of land treatment application for treated leachate of Isfahan Compost Factory, Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, (**Advisor**).
40. GolestaniKermani, Sodابه, **2006**, Using of Momentum term of Zero inertia model for improving volume balance model in furrow irrigation, Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).
41. Akasheh-Gerdbisheh, Leila, **2006**, Assessment of natural Zeolite application for adsorption of heavy metals concentration in leachate of Isfahan Compost Factory, Department of Soil Science, Faculty of Agriculture, Islamic Azad University, Khorasgan Branch, (**Supervisor**).
42. Zarei, MohammadAmin, **2005**, Evaluation of soil salinity distribution under three irrigation scenarios in basin irrigation system, Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (**Supervisor**).

8- Research Project

8-1- Finished research project

1. Determination of the SDI application on Turfgrass yield and soil contamination under SKU treated wastewater application, **2012**, Supported by Shahrekord University, Grant: 55,000,000 Rials. (2,200 US\$)
2. Impact assessment of groundwater artificial recharge site on quantity and quality in Sefid-Dasht aquifer, **2011**, Supported by CHB regional water company, Grant: 20,000,000 Rials. (1,500 US\$)
3. Evaluation of surface irrigation systems in CHB province, **2010**, Supported by CHB Agriculture organization, Grant: 105,000,000 Rials. (10,000 US\$)
4. Design and composing of a Fertigation tools for Surface irrigation system, **2008**, Supported by Shahrekord University, Grant: 2,500,000 Rials. (250 US\$)
5. Investigation of nitrate distribution influence by wastewater recharge on Shahrekord aquifer by using of a MT3D model, **2007**, Supported by CHB regional water company, Grant: 45,000,000 Rials. (4500 US\$)
6. Evaluation of four tillage types on advance front in border irrigation, **2007**, Supported by Shahrekord University, Grant: 6,000,000 Rials. (600 US\$).
7. Simulation of soil salinity distribution under three irrigation scenarios in basin irrigation system with Hydrus-1D, **2006**, Supported by Shahrekord University, Grant: 16,000,000 Rials. (1600 US\$)
8. Assessing of soil physical properties in a soil irrigated by Isfahan sugar beet industry wastewater, **2005**, Supported by Islamic Azad University Khorasgan Branch, Grant: 14,980,000 Rials. (1500 US\$)
9. Removal of trace element from urban wastewater with use of Iranian natural Zeolite, **2000**, Supported by Tehran University, Grant: 10,000,000 Rials. (1000 US\$)
10. Seasonal Variation of Infiltration Parameters in Furrow Irrigation Effected by Soil Texture and Field Management, **2000**, Supported by Tehran University, Ph.D. Dissertation.
11. Mathematical and Management Model of Groundwater (Case Study), **1998**, Supported by Isfahan University of Technology, MSc. Thesis.

The End