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Academic Qualification

B.Sc: Isfahan University of Technology, Irrigation and Drainage,
1990.

M.Sc: Tarbiat Modares University, Irrigation and Drainage, 1994.

Ph.D: Shahid Chamran University of Ahvaz, Water Resources, 2007.

Papers Published in Journals

Shamohammadi S. (2015). Critique of the theory of Langmuir isotherm model. *Iranian Water Research Journal*. (Accepted).

Shamohammadi S. (2015). The application of sand to remove Mn^{2+} . *Journal of Environmental Science and Technology*. 44: 51- 62.

Farsadnia F., Haghightajoo, P., Shamohammadi S., Moghadamnia A. (2014). Regional flood analysis watershed in Mazandaran. *Iran-Watershed Management Science & Engineering*. 8(24): 61-64.

Jamali H., & Shamohammadi S. (2014). Study of Variations Equilibrium Time at Different Concentrations by Activated Carbon Adsorbent. *Journal of Environmental Science and Technology*. 15(4): 19-29.

Shamohammadi S. (2013). Comparisons of rice husk and activated carbon in removal of cadmium from aqueous solution in low concentration. *Water Engineering*. 6(16): 1-10.

Shamohammadi S., Galeh zan M. (2013). Comparison of Active Carbon, Sawdust, Almond Shell and Hazelnut Shell Absorbent in Removal of Nickel from Aqueous Environment. *Water and Wastewater*. 24(3): 71-79.

Shamohammadi S., & Zomorodian M. (2013). Comparison of Soil Conservation Service Model SCS and the Bennett Soil Moisture Accounting Model (SMA-B) in the Flood Estimation Zard River Basin. *Iranian Journal of Watershed Management Science and Engineering*. 7(20): 9- 17.

Shamohamadi, S., Bustanian, M., & Tavakol, H. (2013). Removing Cd^{2+} from water and wastewater by blowy sand; the effects of total hardness and pH. *Desalination and Water Treatment*, 51(16-18), 3463-3471.

Shamohammadi S., & Salari, M. (2013). Impact of activated carbon mass change on equilibrium time and adsorption efficiency of Nickel metal from aqueous solutions. *Iranian Water Research Journal*. 7(13): 215-217.

Kiani H., S. Shamohammadi., & Hadi M. (2013). Breakthrough Column Studies for Mn(II) Removal from Water by Sand. *Environmental Studies*. 60(1): 21-30.

Shamohammadi S. (2012). "Study of Kinetics of Copper in Aqueous Solution by Sawdust Adsorbent. *Water and Wastewater*. 23(2): 126-132.

Shamohammadi S., & Salari, M. (2012). Removal of Nickel from Aqueous Solution by Hard-Shell Pistachios. *Water and Wastewater*. 80-87.

- Moazed, H., Bavi, A., & Shamohamadi, S (Z).** (2011). Modeling cadmium adsorption using modified rice husk. *Applied Engineering in Agriculture*, 27(2), 247-252.
- Khajeh, M., Shamohamadi, S (Z). & Sanchooli, E.** (2011). Synthesis, characterization and removal of lead from water samples using lead-ion imprinted polymer. *Chemical Engineering Journal*, 166(3), 1158-1163.
- Shamohammadi S (Z)., & Khaje M.** (2011).The effect of adsorbent adsorption kinetics of sawdust on chromium in aqueous solutions. *Journal of Environmental Studies*, 36(56): 19-21.
- Kamali E., Shamohamadi, S (Z). & Heidari, M.** (2011). Effects of Irrigation Water Salinity and Leaching Fraction on Soil Chemical Characteristic, Grain Yield, Yield Components and Cation Accumulation in Safflower in Esfahan. *Iranian Journal of Field Crop Science*. 42(1): 63-70.
- Rostami M., Shamohammadi, S., Haghightajoo SP., & Moghadamnia. A.** (2011). Regional flood frequency analysis using the l-moments techniques for the watersheds in the province of Gilan. *Water Engineering*. 4(9): 39-50.
- Shamohammadi S., & Esfahani A.** (2011). Removal of manganese from aqueous solution by natural zeolite in the presence of Iron, Chrome and Aluminum ions. *Water and Wastewater*. 23(1): 66-75.
- Shamohammadi S (Z)., & Khajeh, M.** (2011). A study on the effects of dosage variation of sawdust as an absorbent on uptake kinetics of hexavalent chromium in aqueous solutions. *Journal of Environmental Studies*. 36(56): 61-68.
- Salari M., & S. Shamohammadi.** (2011). Effect of pistachio crust mass on equilibrium and nickel absorption efficiency. *Environmental Studies*, 60: 149 -156.
- Shamohammadi S (Z)., & Khajeh, M.** (2011). Removal of Copper from Aqueous Solution Using Sawdust, Zeolite and activated Carbon: Equilibrium Time Convergence. *Pakistan Journal of Scientific and Industrial Research. Series A. Physical Sciences*. 54(2): 75-83.
- Esfahani A., & Shamohammadi S (Z).** (2011). Manganese Removal from Aqueous Solution by Natural and Sodium-Modified Zeolite. *Journal of Environmental Studies*. 58: 97-104.
- Shamohammadi S (Z).** (2010). Lead Removal from Aqueous Solutions Using Low-cost Adsorbents. *Water and Wastewater*. 21(3): 45-50.
- Jamali H., & Shamohammadi S.** (2010). The effect of changes adsorbent sawdust on the uptake kinetics of Coromium in the water. *Journal of Environmental Science and Technology*. 44: 51- 62.
- Shahmohammadi S., Moazed H., jafarzadeh haghhighifard nemat E., & Pourreza N.** (2008). Removal of low concentrations of cadmium from water using improved rice husk. *Water and Wastewater*. 3(67)-27-33.
- Shamohammadi S., & Moazed H.** (2008) Convergence process efficiency at low concentrations .*Shahid Chamran University Journal of Science*. 17.
- Shahmohammadi S., Moazed H., Jafarzadeh haghhighifard N., & Pourreza N.** (2007). Study of the effect of sodium bicarbonate molarity on the capacity of the rice husk sorbent in the removal of cadmium from aquous solution. *Shahid Chamran University Journal of Science*. 17: 126-136.
- Shamohammadi S (Z)., & Abdolkarim B.** (2006). Set up in fields where no data model, the regional flood plain of Khuzestan East and South East. *Journal of Agricultural Sciences and Natural Resources*. 5(49): 10-17.
- Nikbakht M., & Shamohammadi S.** (2005). Environmental impact assessment of the operation of Sardasht Dam in Khuzestan province. *Water and Wastewater*. 52: 67-70.
- Shamohammadi S.** (1994). The method of making the use of synthetic unit hydrograph in the Khersan catchment area (Khuzestan). p: 35-44.
- Shamohammadi S.** (1992). The destruction of watersheds. *Jahad*.

Papers Published in Conferences

Shamohammadi S. (2013). The introduction of new rainfall-runoff models, with a critique on rainfall-runoff models- SCS-CN. The 6th Conference on Watershed and Soil and Water Resource Management. Tehran, Iran.

Shamohammadi S (2012). Presenting the new adsorption isotherm model. 2th International Conference on Environmental Hazards, Kharazmi University, Iran.

Saydain S., & Shamohammadi S. (2012). Adsorption of chromium (VI) from aqueous solution by tamarisk sawdust Water Quality. Hangzhou, China.

Kiani H., & Shamohammadi S. (2012). Study of breakthrough curves for column of bed to remove manganese from aqueous solution by the sandy wide of Sistan plain. Water Quality. Hangzhou, China.

Shamohammadi S. (2012). The studying of absorption process at low concentrations. The National Conference on Environmental and Natural Resource Tehran, Iran.

Soltani F., & Shamohammadi S. (2012). The Chromium removes from aqueous solution by rice The National Conference on Environmental and Natural Resource Tehran, Iran.

Shamohammadi S., & Jahani Z (2011). Determine the pattern of rainfall distribution in the Gorganroud basin. The 4th Iranian Water Resources Management Conference. Tehran, Iran.

Jahani Z., & Shamohammadi S. (2011). Regional frequency analysis of maximum daily precipitation in the Mazandaran province. The 4th Iranian Water Resources Management Conference. Tehran, Iran.

Shamohammadi S. (2010). Compare the process of copper in aqueous solution by carbon, zeolites and sawdust. National Conference on Water and Wastewater. Tehran, Iran.

Shamohammadi S. (2008). Aqueous solution using sunflower stem, sawdust and rice husk for lead adsorption The 1th International Conference of Water Crisis. Zabol, Iran.

Shamohammadi S. (2008). Lead Adsorption from Aqueous Solution Using Pretreated Rice Husk Kinetic and pH Studies. The 1th International Conference of Water Crisis. Zabol, Iran.

Shamohammadi S., & Haghghatjoo P. (2008). Determination of the long-term droughts and wet years, according to annual rainfall in Iran. The 1th International Conference of Water Crisis. Zabol, Iran.

Shamohammadi S. (2008). Application of Markov chain in the investigation of drought and wet possibilities of Sistan region. The 1th International Conference of Water Crisis. Zabol, Iran.

Shamohammadi S. (2008). Time focusing estimation in the Khersan catchment for calculating the peak discharge. The 1th International Conference of Water Crisis. Zabol, Iran.

Shamohammadi S., & Moazed H. (2008). The study of cadmium absorption from aqueous solutions by the rice husk. The 2th Conference on Environmental Engineering, Tehran. Iran.

Shamohammadi S. (2008). Remove cadmium from aqueous solution at low concentration by modified rice husk. The 2th Conference on Environmental Engineering, Tehran. Iran.

Haghghatjoo P., & Shamohammadi S. (2008). The calibration of leaching models of saline soils in the research fields of Zabol University. The 2th National Conference on Irrigation and Drainage Network Management. Ahvaz, Iran.

Haghghatjoo P., & Shamohammadi S. (2008). The use of dynamic programming model for Suitable dewatering time and optimal utilization of the Karaj Dam. The 2th National Conference on Irrigation and Drainage Network Management. Ahvaz, Iran.

Jahani S., & Shamohammadi S. (2008). Calibration empirical estimates of annual sewage basins in Khuzestan Plain. The 2th Conference on Environmental Engineering, Tehran, Iran.

- Jamahi H., & Shamohammadi S.** (2008). The removal of lead from aqueous solution using activated carbon adsorbent. The 1th international Conference on Water Crisis, Zabol, Iran.
- Shamohammadi S.** (2007). Breakwater design criteria for better performance on the Rivers. Conference of National Water Resources Development. Tehran, Iran.
- Jamali H., & Shamohammadi S.** (2006). A feasibility study on removal of cadmium from water and wastewater. The 1th Conference on Irrigation and Drainage network management, Ahvaz, Iran.
- Shamohammadi S.** (2006). The study of morality of sodium bicarbonate to increase the capacity of rice husk absorbent for the removal of cadmium from aqueous solutions. The 1th Regional Conference on Water Resources Management. Shahrekord, Iran.
- Shamohammadi S.** (2004). Study of empirical relationship in calculate the depth of annual runoff in watersheds of central and southeast of Khuzestan plain. The 1th Iranian Water Resources Management Conference. Tehran, Iran.
- Shamohammadi S.** (2004). Investigation the regional relationship of watershed maximum flood in East and Southeast plain of Khuzestan using standard index. The 1th Iranian Water Resources Management Conference. Tehran, Iran.
- Soltani R., & Shamohammadi S.** (2003). Evaluation of diffusion equation in the saline soils using the soil conservation department of United States. The biennial Seminar of evapotranspiration. Kerman, Iran.
- Soltani R., & Shamohammadi S.** (2003). The Selection of management qualitative analysis for irrigation systems in the Khuzestan province. The 3th meeting of the Regional Committee of Irrigation and Drainage in Khuzestan. Ahvaz, Iran.
- Soltani R., & Shamohammadi S.** (2001). The feasibility of mixing irrigation water and salt water and its impact on the soil. The 1th International Conference of Water Crisis. Zabol, Iran.
- Barfrooshan.S., & Shamohammadi S.** (2001). The minimum water requirement for survival in Sistan plain. The 1th National Conference on Water Crisis, Zabol, Iran.
- Kamali E., & Shamohammadi S.** (2001). Water crisis and challenges in the use of pressurized irrigation systems. The 1th National Conference on Water Crisis, Zabol, Iran.
- Kamali E., & Shamohammadi S.** (2001). The impact of Hamoon wetlands on land surface temperatures in Sistan and Baluchestan Province. The 1th National Conference on Water Crisis, Zabol, Iran.
- Soltani R., & Shamohammadi S.** (2001). Evaluation of leaching efficiency for the research fields of Zabol University. The 1th National Conference on Water Crisis, Zabol, Iran.
- Haghighatjoo P., & Shamohammadi S.** (2001). The study of Regional models of flood peak in the watershed. The 1th National Conference on Water Crisis, Zabol, Iran.
- Shamohammadi S., & Soltani S.** (2000). Water resource use in agriculture. 1th Conference on strategies for coping with drought and low water, Kerman, Iran.

Books

- Shamohammadi S., & Sayadi A.** (2015). *Water quality*. Shahrekord University Press. pp: 220
- Shamohammadi S., & Asadi R.** (2013). *Water Requirements for Irrigation and the Environment (Translated)*. Jahad Daneshgahi Prees, Iran. pp: 360
- Shamohammadi S., & S Maleki S.** (2012). *The lives of Hamoon*. Jahad Daneshgahi Prees, Iran. pp: 398

Mousavi S.F., & Shamohammadi S. (1993). *General irrigation*. Arkan Press, Esfahan, Iran.
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Awards & Honors

- Top Book Award for 2014, 22nd World Book Award of Islamic Republic of Iran.
- Superior Researcher Award, University of Zabol, 2002.

Research Projects

- 2012: Evaluation and identification of water pollution sources in Zayanderood River.
- 2011: Study of physical properties of Sistan River.
- 2010: The study of lead removal from aqueous solution at low concentrations by the rice husk
- 2010: The use of rice husk absorbent for the removal of cadmium from water and wastewater.
- 2009: The effect of rainfall duration in the hydrograph simulation in summer.
- 2002: The role of Zabol University in the socioeconomic and political security of Zabol.
- 2001: Evaluate the performance of saffron in Sistan region.
- 2000: The performance of evaporation ponds in the drainage water disposal of Chahnimeh farms.
- 1999: The study of water distribution uniformity in the sprinkler systems in the Chahnimeh fields
- 1998: Study on water resources and hydrological on Sargan basin.
- 1997: Study of climate condition and its impact on the physiographic of Sargan basin.
- 1996: Evaluate the use of methods synthetic unit hydrograph in Urmia Lake.

Education

B.Sc: Hydrology- Meteorology- Water Quality- Irrigation- Soil and Water Relationship

M.Sc: Water Resources.

Ph.D: Advanced Hydrology.

Cooperation Projects:

- 1988: Drainage studies of Vidj plain in Kashan.
- 1990: Studies Director of Khalil Abad dam project in Chaharmahal and Bakhtiari province.
- 1990: Hydrological and meteorological study of Surak dam in Chaharmahal and Bakhtiari province.

1995: Drainage project of West region in Zabol city.

1996: The project of Sarbaz chatchment flood- South Balochistan.

Cooperation with research institutes.

Water and Soil Corporation (Jahad Daneshgahi-1986-1988)

Department of Soil and Water (Jahad Daneshgahi, Tehran, 1989-1991).

Soil and Ware Research Center (Jahad Daneshgahi, Tehran, 1991-1993).

Sistan Civil Organization (2000-2002).

Khuzestan Water and Power Organization (2006-2008).

Sistan Soil and Water Resources Development Company (2007-2010).

Administrative Experience

Chancellor of the Shahrekord University.

Head of Hamoon Institute, University of Zabol (2007-2010).

Head of Art and Architecture Faculty, University of Zabol (2007-20011).

Vice president of financial and administrative (Faculty of Agriculture), University of Zabol. (1996-2000).

Head of irrigation department, University of Zabol, (1992-1995).

General Secretary of the first national conference of water crisis, University of Zabol (2001).

General Secretary of the-first International Conference on Water Crisis, University of Zabol (2007).

Editor in chief of Iranian Water Research Journal (2012-2013).

Membership in Academic Societies

Member of Iranian Hydrology Association