

# Shervin Jamshidi

**Work Address:** Room #306, Department of Civil Engineering, University of Isfahan, Iran.

**PO Code:** 81746-73441

**Tell:** (+98) 3137932426

**Fax:** (+98) 3136699515

**Email:** [sh.jamshidi@eng.ui.ac.ir](mailto:sh.jamshidi@eng.ui.ac.ir)

[jamshidi.ui@gmail.com](mailto:jamshidi.ui@gmail.com)



[ORCID](#)

[Google Scholar](#)

[Researchgate](#)

[LinkedIn](#)

---

## EDUCATION

**PhD/ Environmental Eng. - Water Resources Eng.,** 2012- 2016

*University of Tehran, Iran*

Dissertation: *Surface Water Quality Management Using Urban Reclaimed Water Allocation*

**MSc/ Civil Eng. - Water and Wastewater Eng.,** 2009- 2011

*Power and Water University of Technology, Iran*

Thesis: *Performance Evaluation of Anaerobic Baffled Reactor (ABR) Treating Municipal Wastewater in Pilot Scale*

**BSc/ Civil Eng. - Water Resources,** 2004- 2008

*Isfahan University of Technology, Iran*

---

## PROFESSIONAL EXPERIENCE

**UNIVERSITY OF ISFAHAN, Iran** 2018- Present

*Assistant Professor*

### **Research topics and interests:**

- Environmental governance and indicators,
- Water quality management and wastewater treatment

### **Research projects:**

- Environmental system analysis in transboundary rivers (Case study: Zab basin), **Ongoing.**
- Technological solutions for rural wastewater treatment in Hamadan Province, **2024.**
- Waste load allocation by water quality trading (Case study: Varamin plain), **2023.**
- Developing an integrated SEA method for BMP assessment (Case study: Zrebar Basin), **2023.**
- Upgrading waste stabilization ponds (Case study: Delijan WWTP), **2022.**
- Integrated municipal and rural solid waste management in Isfahan Province, **2022.**
- Roadmapping basin management and operations (Case study: Atrak basin), **2022.**
- Grey water evaluation of paddy fields (Case study: Guilan province), **2021.**
- Municipal sludge reduction (Case study: Sharekord and Borujen WWTPs), **2021.**
- Assessment of public water literacy in national scale, **2020.**
- Medical solid waste management and landfill design (Case study: Isfahan), **2020.**
- Fish farm discharge management in rivers (Case study: Kabkian river), **2019.**

### **Teaching courses:**

- Water quality management,
- Fundamentals of advection-diffusion and pollution modelling,

- Sustainable development and environmental management,
- Principles of Water and Wastewater Engineering,
- Advanced hydrology,
- Environmental engineering,
- Industrial wastewater treatment,
- Sludge treatment and disposal

### **Supervisor/ Advisor:**

- **Ahmadi E.** Evaluation of Sustainability Indices for Municipal Solid Waste Management (Case study: Isfahan Province), MSc thesis, University of Isfahan, **2024.**
- **Arastou K.** Grey water footprint and quality evaluation of industrial wastewater by multiple pollutants (Case study: Jey Industrial Park's Wastewater treatment plant), MSc thesis, University of Isfahan, **2024.**
- **Tafazoli P.** Grey water and cumulative environmental impact assessment of fish farms, MSc thesis, University of Isfahan, **2024.**
- **Hosseinzadeh A.** Performance evaluation of conventional municipal wastewater treatment plants in central Iran based on grey water footprint, MSc thesis, Shahid Chamran University, **2024.**
- **Souri M.A.** Waste load allocation based on water quality trading using groundwater modeling in Varamin study area, MSc thesis, University of Isfahan, **2023.**
- **Naderi A.** Developing an Integrated Methodology for Strategic Environmental Assessment of Best Management Practices (Case Study: Zrebar Lake Basin), MSc thesis, University of Isfahan, **2023.**  
**AWARD: Top MSc researcher**, College of Engineering, University of Isfahan.
- **Hashempour F.** Developing Cumulative Environmental Impact Assessment Methodology for Desalination Plants, MSc thesis, University of Tehran, **2022.**
- **Nikafrooz M.** Trouble-shooting of Shahrekord WWTP and feasibility study for excess biological sludge reduction, MSc thesis, University of Isfahan, **2022.**
- **Niksiyar A.** Predicting the performance of activated sludge unit in urban wastewater treatment using adaptive neuro-fuzzy system (case study: Shahrekord wastewater treatment plant), MSc thesis, University of Isfahan, **2022.**
- **Ghaneyan M.** Upgrading Wastewater Treatment Plants with Water-Energy-Food Nexus Perspective, MSc thesis, University of Isfahan, **2022.**
- **Roudbari Vaez M.** Grey Water Footprint Determination in Paddy Field (Case Study: a Paddy Field of Guilan Province), **2022.**

**WATER RESEARCH INSTITUTE**, Ministry of Energy, Iran

2010- 2018

*Research Associate & Assistant Professor*

### **Research projects:**

- National road-mapping of wastewater treatment and desalination technologies, **2018.**
- Standardization and labelling water efficiency in Iran, **2016.**
- Optimization of sludge incineration and disposal (Case study: Arak WWTP), **2016.**
- Improving drinking water extraction from Ardabil aquifer, **2016.**
- Performance evaluation and upgrading domestic WWTPs, **2015.**

**IRANIAN NATIONAL STANDARD ORGANIZATION**

2013- 2017

*Editor ISO mirror technical committees (147, 224, and 275)*

### SCHOLARSHIPS, CERTIFICATES & AWARDS

- ✓ Co-researcher of **Best research project**, University of Isfahan, **2023.**
- ✓ Co-supervisor of **Best thesis** in accordance with industrial and social demands, University of Isfahan, **2022.**
- ✓ **Top senior researcher** at Water Research Institute (WRI), Ministry of Energy, **2017.**
- ✓ **Top junior researcher** at University of Tehran, **2016**
- ✓ **Top lecturer** at Applied Science University in Alborz Province, **2016.**

- ✓ DAAD full scholarship for course: “*Water & Environment in times of global change*” at Ostfalia Hochschule für angewandte Wissenschaften, Suderburger, Germany, **2015**.
- ✓ DAAD full scholarship for: “*Integrated Land Use Systems*” at Freiburg University, Germany, **2017**.
- ✓ Brighton University scholarship for: “*Water Initiative in South Asia (WISA)*”, **2018**.
- ✓ Online course: “*Policy Coherence and System Thinking for Sustainable Development*”, United Nations, **2023**.
- ✓ Online course: “*Introduction to Sustainable Development in Practice*”, United Nations, **2023**.
- ✓ Online course: “*Indicators for an Inclusive Green Economy*”, United Nations, **2023**.
- ✓ Online course: “*Green Fiscal Policy*”, United Nations, **2023**.

## PUBLICATIONS

### International Peer Reviewed Journals

- Babaeian F., Delavar M., Morid S., **Jamshidi S. (2023)**, Designing climate change dynamic adaptive policy pathways for agricultural water management using a socio-hydrological modeling approach, *Journal of Hydrology*, 627, 130398. [Link](#)
- Souri MA., **Jamshidi S.**, Kardan Moghaddam H. (2023), Waste load allocation by integrated GMS Modeling and economic evaluation for nitrate reduction in Varamin aquifer, *AQUA*, 72(7), 1309-1319. [Link](#)
- Vaez Roudbari M., Dehnavi A., **Jamshidi S.**, Yazdani M. (2023), A Multi-Pollutant Pilot Study to Evaluate the Grey Water Footprint of Irrigated Paddy Rice, *Agricultural Water Management*, 282, 108291. [Link](#)
- **Jamshidi S.**, Naderi A. (2023), A quantitative approach on environment-food nexus: integrated modeling and indices for cumulative impact assessment of farm management practices, *PeerJ* 11:e14816. [Link](#)
- **Jamshidi S.**, Imani S., Delavar M. (2022), An Approach to Quantifying the Grey Water Footprint of Agricultural Productions in Basins with Impaired Environment, *Journal of Hydrology*, 606, 127458 [Link](#)
- Yazdian H., **Jamshidi S. (2021)**, Performance evaluation of wastewater treatment plants under the sewage variations imposed by COVID-19 spread prevention actions, *Journal of Environmental Health Science and Engineering*, 19(2), 1613-1621. [Link](#)
- **Jamshidi S.**, Imani S., Delavar M. (2020), Impact Assessment of Best Management Practices (BMPs) on the Water Footprint of Agricultural Productions, *International Journal of Environmental Research* 14, 641–652. [Link](#)
- **Jamshidi S. (2019)**, An Approach to Develop Grey Water Footprint Accounting, *Ecological Indicators* 106, 105477. [Link](#)
- **Jamshidi S. (2019)**, Value Added Innovation in Infrastructure Systems, Lessons Learned From Wastewater Treatment Plants, *TQM Journal* 31(6), 1049-1063. [Link](#)
- **Jamshidi S.**, Niksokhan M.H., Ardestani M., Imani S. (2018), Operation-based uncertainties in river waste load allocation and their impacts on controlling discharges, *Civil Engineering and Environmental Systems*, 35:1-4, 223-240. [Link](#)
- Kariman A.S., Salimi L., **Jamshidi S. (2018)**, Determining the Economic Value of Surface Water Quality Improvements to Trout Farmers, *AQUA* 67(2), 192-201. [Link](#)
- Ebrahimi M., Gholikandi G.B., **Jamshidi S.**, Ezzo H. (2018), Dolomite Reactor, a Retrofitting approach for Activated Sludge against Bulking, *Iranian Journal of Science and Technology, Transactions A: Science.*, 42(3), 1215-1221. [Link](#)
- Imani S., Niksokhan M.H., **Jamshidi S.**, Abbaspour K.C. (2017), Discharge permit market and farm management nexus: an approach for Eutrophication control in small basins with low-income farmers, *Environmental monitoring and assessment*, 189, 346. [Link](#)
- Alighardashi A., Pakan M., **Jamshidi S.** Pajoum Shariati F. (2017), Performance evaluation of MBR coupled with GAC on tannery wastewater treatment, *Membrane Water Treatment, An International Journal*, 8(6), 517-528. [Link](#)
- Naderi Varandi M.J., **Jamshidi S.**, Mennerich A. Sadeghi Azad A. (2017), Electrolysis Enhanced Anaerobic Baffled Reactor as Retrofitting Approach for Molasses Based Distillery Wastewater Treatment, *Desalination and Water Treatment*, 62, 80-85. [Link](#)
- **Jamshidi S.**, Ardestani M., Niksokhan M.H. (2016), A Seasonal Waste Load Allocation Policy in an Integrated Discharge Permit and Reclaimed Water Market, *Water Policy*, 18(1), 235-250. [Link](#)

- **Jamshidi S.**, Niksokhan M.H. (2016), Multiple pollutant discharge permit markets, A challenge for wastewater treatment plants, *Journal of Environmental Planning and Management*, 59(8), 1438-1455. [Link](#)
- **Jamshidi S.**, Niksokhan M.H., Ardestani M., Jaber H. (2015), Enhancement of Surface Water Quality Using Trading Discharge Permits and Artificial Aeration, *Environmental Earth Sciences*, 74(9), 6613–6623. [Link](#)
- Feizi Ashtiani E., Niksokhan M.H., **Jamshidi S.** (2015), Equitable Fund Allocation, an Economical Approach for Sustainable Waste Load Allocation, *Environmental Monitoring and Assessment*, 187(8), 522. [Link](#)
- Alighardashi A., Modanlou M., **Jamshidi S.** (2015), Performance Evaluation of Anaerobic Baffled Reactor (ABR) Treating Pulp and Paper Wastewater in Start-up Period, *Water Practice and Technology*, 10(1), 1-9. [Link](#)
- **Jamshidi S.**, Akbarzadeh A, Woo KS, Valipour A. (2014), Wastewater treatment using integrated anaerobic baffled reactor and Bio-rack wetland planted with *Phragmites sp.* and *Typha sp.* *Journal of Environmental Health Science & Engineering* 12, 131-142. [Link](#)
- **Jamshidi S.**, Niksokhan M.H., Ardestani M. (2014), Surface Water Quality Management Using Integrated Discharge Permit and Reclaimed Water Market, *Water Science and Technology*, 70(5), 917-924 [Link](#)
- Azizi S., Valipour A., **Jamshidi S.**, Sithebe T. (2014), Performance evaluation of the electrolysis process for waste sludge stabilization in decentralization practices, *Desalination and Water Treatment*, 54(3), 616-623.
- Gholikandi G.B., **Jamshidi S.**, Hazrati H. (2014), Optimization of Anaerobic Baffled Reactor (ABR) Using Artificial Neural Network in Municipal Wastewater Treatment, *Environmental Engineering and Management Journal*, 13(1), 95-104.
- Valipour A., Taghvaei S.M., Raman V.K., Gholikandi B.G., **Jamshidi S.**, Hamnabard N. (2014), An approach on attached growth process for domestic wastewater treatment, *Environmental Engineering and Management Journal*, 13(1), 145-152.
- **Jamshidi S.**, Gholikandi G.B. (2014), An Assessment of Anaerobic Baffled Reactor to Upgrade Wastewater Stabilization Ponds, A Pilot Study, *International Journal of Sustainable Development and Planning*, 9(4), 597-607.
- Gholikandi, G.B., Sadrzadeh, M., **Jamshidi, S.**, Ebrahimi, M. (2013), Water Resource Management in Ancient Iran with Emphasis on Technological Approaches, *Water Science and Technology: Water Supply*, 13(3), 582-589.
- **Jamshidi S.**, Gholikandi G.B., Orumieh H.R., (2011), High organic loading rate and waste stabilization pond's operation efficiency: a case study, *WIT Transactions on Ecology and the Environment*, 148, 415-424.

### National Peer Reviewed Journals

- Hashempour F, Pardakhti A., **Jamshidi S.** (2024), Cumulative Environmental Impacts of Desalination Plants Based on ReCiPe Indices Used in Life Cycle Assessment, *Journal of Water & Wastewater Science and Engineering*.
- Dehnavi A., Nadi S., **Jamshidi S.** (2024), Spatial Assessment of Risky and Safe Sites for Solid Waste Landfills (Case study: Isfahan province), *Journal of Civil and Environmental Engineering*.
- **Jamshidi S.**, Dehnavi A. (2024), Grey water quantity and quality assessment (Case study: Isfahan University Dormitories), *Journal of Water & Wastewater Science and Engineering*.
- Ostad Mohammadi M., Niksokhan M.H., **Jamshidi S.** (2024), Optimal-fair waste load allocation of river system based on Rawls theory, *Environmental Energy and Economic Research*.
- Karimpour B., Dehnavi A., **Jamshidi S.** (2023), Prioritization of Wastewater Treatment Options in Rural Areas in Various Conditions According to Two Scientific and Executive Perspectives, *Journal of Water and Wastewater*
- **Jamshidi S.**, Moradkhani M., Zarei MA., Mamaghani Nejad M., (2023), Performance Evaluation and Comparison of Facultative Ponds in Series and Parallel for Domestic Wastewater Treatment (Case study: Delijan WWTP), *Journal of Civil and Environmental Engineering*.
- Yazdian H., **Jamshidi S.** (2021), Impact of Coronavirus Spread Prevention Actions on Sewage Quantity and Quality, *Journal of Environmental Health Engineering* 8(4), 343-357
- **Jamshidi S.**, Dehghani H. (2021), Water Literacy Evaluation in Urban Society (Case study: Isfahan City), *Journal of Environmental Studies*, 46(4), 555-570.
- **Jamshidi S.** (2021), Requirements and Roadmap of Smart Water Distribution Network, *Journal of Water & Wastewater Science and Engineering* 5(4), 4-15.

- Heidarpour M., **Jamshidi S. (2019)**, Determining total allowable pollution and waste load allocation in rivers regarding seasonal variations, a framework for local multi-parameter water quality standardization and monitoring, *Journal of Environmental Studies* 44(3), 519-531.
- **Jamshidi S.**, Kariman A.S., Meshkati M.H., Mehrabi Z. (2018), Evaluation of River Water Quality and Indices for Fish Farm Development (Case study: Kabkian River), *Journal of Environmental Health Engineering*, 2018; 5(4), 375-388
- Khalili A.R., **Jamshidi S.**, Khalesidoust M., Vesali Naseh M.R., Akbarzadeh A., Mamaghani nejad M., Mohebbi M. Sameni F. (2017), Evaluation of Sewage Sludge for Incineration (Case study: Arak Wastewater Treatment Plant), *Environmental Energy and Economics Research*, 1(3), 249-258.
- **Jamshidi S.**, Niksokhan M.H. (2017), Upgrading Wastewater Treatment Plants Based on Reuse Demand, Technical and Environmental Policies (A Case Study), *Environmental Energy and Economics Research*, 1(2), 101-112.
- **Jamshidi S.**, Niksokhan M.H., Ardestani M. (2016), Wastewater Reuse, an Opportunity to Expand Nitrogen Discharge Permit Markets, *Journal of Environmental Studies* 42 (1), 211-227 (in Persian).
- **Jamshidi S.**, Mahjoubi E., Ardestani M. (2016), Feasibility Study of Discharge Permit Markets in Surface Waters, *Journal of Iranian Geology* (in Persian).
- **Jamshidi S.**, Niksokhan, M.H. (2016), Waste Load Allocation in Sefidrud Using Water Quality Trading, *Journal of Water and Irrigation Management (Journal of Agriculture)*, 5(2), (in Persian).
- Alighardashi A., Jamadi M.H., Gholikandi G.B. **Jamshidi S. (2016)**, The Investigation of Hydrodynamic Characteristics of a Lab Scale Anaerobic Baffled Reactor, *Journal of Civil and Environmental Engineering*, 46(1), 82.
- Akbarzadeh A., **Jamshidi S.**, Vakhshouri M. (2015), Nutrients Uptake Rate and Removal Efficiency of *Vetiveria zizanioides* in Contaminated Waters, *Pollution*, 1, 1-8.
- Akbarzadeh A., Vakhshouri M., **Jamshidi S.**, Khalesidoost M. (2014), An assessment of *Vetiveria zizanioides* removing nutrients from wastewater, *Water and Wastewater Journal*. (in Persian)
- Gholikandi G.B., **Jamshidi S.**, Valipour A. (2013), Application of electrolysis upgrading the operation of anaerobic reactors, *Journal of Environmental Studies*, 38, 9-16. (in Persian)

### Proceedings of International Conferences

- High organic loading rate and waste stabilization pond's operation efficiency: a case study (2011), *Int. Conf. on Management of Natural Resources*, Shah-Alam, Malaysia.
- Irrigation History of Ancient Iran: A Cultural Heritage (2012), *IWA Specialized Conf. on Water & Wastewater Technologies in Ancient Civilizations*, Istanbul, Turkey.
- Iron adsorption and removal from wastewater by untreated anaerobic biomass (2014), *4<sup>th</sup> Int. Conf. on Environmental Challenges and Dendrochronology*, Sari, Iran.
- Water Quality Monitoring and Assessment in the Estuaries of Caspian Sea (2015), *10<sup>th</sup> Int. Cong. Civil Engineering*, Tabriz, Iran.
- Value Index, a Novel Decision Making Approach for Waste Load Allocation (2015), *17<sup>th</sup> Int. Conf. on Environmental Sciences and Engineering*, Toronto, Canada
- Water Quality Trading with Equitable Total Maximum Daily Loads (2015), *17<sup>th</sup> Int. Conf. on Environmental Sciences and Engineering*, Toronto, Canada

### Book Chapter

- **Jamshidi S.**, Naderi A. (2023), Wetland Restoration Policies and the Sustainability of Agricultural Productions, Lessons Learnt from Zrebar Lake, Iran, in book entitled “*Ecorestoration and Sustainability*”, Wiley-scrivener. [Link](#)
- **Jamshidi (2021)**, Grey Water Footprint Accounting, Challenges and Problem Solving, in book entitled “*Agroecological Footprints Management for Sustainable Food System*”, Springer. [Link](#)
- Gholikandi G.B., **Jamshidi S. (2014)**, Methane Production Yield and Performance Assessment of Conventional and Electrolysis-Enhanced ABR (EABR), in book entitled “*Methanogenesis: Biochemistry, Ecological Functions, Natural and Engineered Environments*”, Nova Publishers, USA.