

Curriculum Vitae (CV)

First Name: Ahmad

Surname: Jamshidi Zanjani

Birth Date: Apr 1, 1982

Current City: Tehran

Citizenship: Iranian

Languages: Persian, English (U.S.)

Gender: male



Contact Information

Assistant professor at Tarbiat Modares University

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Education

Ph.D., Water and Environmental Engineering (Environmental pollution), Iran University of Science and Technology (IUST), Tehran, Iran

M.Sc., Environmental Engineering Iran University of Technology (IUST), Tehran, Iran, 2006.

B.Sc., Civil Engineering, Isfahan University of Technology (IUT), Tehran, Iran,

M.S thesis title:

“Removal of Nickel from Kaolinite using Electrokinetic coupled with barrier”

Ph.D. dissertation title:

“Development of heavy metals pollution index in aquatic sediment, Anzali Wetland”

Research area

- 1- Geochemistry of sediments
- 2- Soil pollution
- 3- Water quality management
- 4- Water and wastewater treatment
- 5- Solid waste management
- 6- System dynamic modeling in the Environment
- 7- Waste management
- 7- Field and laboratory research

Key papers:

1. Eyvazi, B., **Jamshidi-Zanjani, A.** and Darban, A.K., 2019. Immobilization of hexavalent chromium in contaminated soil using nano-magnetic MnFe₂O₄. *Journal of hazardous materials*, 365, pp.813-819.
2. Darezereshki, E., khodadadi Darban, A., Abdollahy, M. and **Jamshidi-Zanjani, A.**, 2018. Influence of heavy metals on the adsorption of arsenate by magnetite nanoparticles: Kinetics and thermodynamic. *Environmental Nanotechnology, Monitoring & Management*, 10, pp.51-62.
3. Darezereshki, E., Darban, A.K., Abdollahy, M., **Jamshidi-Zanjani, A.**, Vakylabad, A.B. and Mohammadnejad, S., 2018. The leachability study of iron-oxides from mine tailings in a hybrid of sulfate-chloride lixiviant. *Journal of Environmental Chemical Engineering*, 6(4), pp.5167-5176.
4. Darezereshki, E., khodadadi Darban, A. and Abdollahy, M., and **Jamshidi-Zanjani, A.** 2018. Synthesis of magnetite nanoparticles from iron ore tailings using a novel reduction-precipitation method. *Journal of Alloys and Compounds*, 749, pp.336-343.
5. **Jamshidi-Zanjani, A.** and Rezaei, M., 2017. Landfill site selection using combination of fuzzy logic and multi-attribute decision-making approach. *Environmental Earth Sciences*, 76(13), p.448.
6. **Jamshidi-Zanjani, A.** and Saeedi, M., 2017. Multivariate analysis and geochemical approach for assessment of metal pollution state in sediment cores. *Environmental Science and Pollution Research*, pp.1-16.

7. **Jamshidi-Zanjani, A.** and Khodadadi Darban, A., 2017. A review on enhancement techniques of electrokinetic soil remediation. *Pollution*, 3(1), pp.157-166.
8. Saeedi, M. and **Jamshidi-Zanjani, A.**, 2015. Development of a new aggregative index to assess potential effect of metals pollution in aquatic sediments. *Ecological Indicators*, 58, pp.235-243.
9. **Jamshidi-Zanjani, A.**, Saeedi, M. and Li, L.Y., 2015. A risk assessment index for bioavailability of metals in sediments: Anzali International Wetland case study. *Environmental Earth Sciences*, 73(5), pp.2115-2126.
10. Saeedi, M., Salmanzadeh, M., **Jamshidi-Zanjani, A.** and Li, L., 2014. Response to the comments of Zhang et al.(2014) on " heavy metals and polycyclic aromatic hydrocarbons: pollution and ecological risk assessment in street dust of Tehran". *Journal of hazardous materials*, 279, p.389.
11. **Jamshidi-Zanjani, A.** and Saeedi, M., 2013. Metal pollution assessment and multivariate analysis in sediment of Anzali international wetland. *Environmental earth sciences*, 70(4), pp.1791-1808.
12. Saeedi, M., Li, L.Y., Karbassi, A.R. and **Zanjani, A.J.**, 2013. Sorbed metals fractionation and risk assessment of release in river sediment and particulate matter. *Environmental monitoring and assessment*, 185(2), pp.1737-1754.
13. Fadaei, E., Pourkhabbaz, A., Nabibidhendi, G., Amiri, M.J., **Jamshidi, A.** and Valehi, H., 2013. Removal of dissolved Chromium (VI) by adsorption onto *Elaeagnus angustifolia* fruit charcoal, Jujube fruit charcoal and comparison with Granular Activated Carbon (GAC). *Journal of Environmental Studies*, 39(3), p.3.
14. Fadaei, E., Pourkhabbaz, A., Barikbin, B., **Jamshidi, A.** and Biazar, S., 2013. Optimization of operating parameters affecting the removal of chromium from aqueous solution using bio absorption Jujube fruit powder, Jujube fruit charcoal and compression with Granular Activated Carbon (GAC). *Jundishapur Journal of Health Sciences*, 5(2), pp.89-98.
15. **Zanjani, A.J.**, Saeedi, M. and Weng, C.H., 2012. An Electrokinetic Process Coupled Activated Carbon Barrier for Nickel Removal from Kaolinite. *EnvironmentAsia*, 5(2).

16. **Zanjani, A.J.**, Saeedi, M. and Vosoogh, A., 2012. The effect of the waste separation policy in municipal solid waste management using the system dynamic approach. *International Journal of Environmental Health Engineering*, 1(1), p.5.

17. Saeedi, M., Hosseinzadeh, M., **Jamshidi, A.** and Pajooheshfar, S.P., 2009. Assessment of heavy metals contamination and leaching characteristics in highway side soils, Iran. *Environmental monitoring and assessment*, 151(1), pp.231-241.

18. Saeedi, M., **Jamshidi, A.**, Shariatmadri, N. and Falamaki, A., 2009. An investigation on the efficiency of electrokinetic coupled with carbon active barrier to remediate nickel contaminated clay. *Int. J. Environ. Res*, 3(4), pp.629-636.

Teaching experience

- 1- T.A in water and wastewater treatment (Iran University of science and technology)
- 2- Water and wastewater quality (University of Allaodole Semnani Garmsar)
- 3- Physical, chemical and biological process in water and wastewater treatment (University of Allaodole Semnani Garmsar)
- 4- Environmental Impact Assessment (University of Allaodole Semnani Garmsar)
- 5- Advanced mathematic (Tarbiat Modares University)
- 6- Mine and environment (Tarbiat Modares University)
- 7- Waste management (Iran University of Science and Technology)
- 8- Environmental geochemistry (Tarbiat Modares University)
- 9- Surface and groundwater contamination (Tarbiat Modares University)

Work experience

- 1- Derivation ambient and discharge water quality criteria in Persian Gulf and Oman Sea, Iranian coast (Iran University of Science and Technology)
- 2- Derivation ambient and discharge water quality criteria in Caspian Sea, Iranian coast (Iran University of Science and Technology)
- 3- Investigation of effect of traffic on road side soil pollution
- 4- Groundwater pollution in Jiroft, Iran

- 5- Assessment of heavy metals pollution in Shahre-babak (Kerman province)
- 6- Solidification and stabilization of hazardous waste from power plant, Shahid Rajaei power plant, Iran.
- 8- Terms of reference of environmental impact assessment in harbors
- 9- Monitoring of surface water in north of Iran near Caspian Sea
- 10- Application of smart dust in environmental monitoring

Software skills

- 1- ArcGis, SPSS, Vensim, Microsoft Word, Microsoft Excell, Matlab, Minitab, VisualHelp, Warm, Landgem

Language skills

- 1- Passing MCHE (Iranian interior exam)
- 2- Very well in understanding and reading

Honors

- 1- Ranked 550th in the university entrance exam (Konkour) B.Sc, 2000
- 2- Ranked 500th in the university entrance exam (Konkour) M.Sc, 2004
- 3- Ranked 1th in Water and Environmental engineering PhD student