

# Resume

**Full Name:** Sayyed Hossein Khazaei

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## **Education**

**July 2021 till June 2023:** Visiting Scholar at the University of Texas at Arlington. USA.

**2017 till 2023:** Ph.D. in Environmental Science & Engineering, Department of Science & Environmental Engineering University of Tehran, Tehran, Iran.

**2005-2007:** M.Sc. in Natural Resources Engineering-Environmental Science, Department of Environmental Science University of Tehran, Tehran, Iran.

**M.Sc. Thesis Title:** Study of nitrate and diazinon residues in groundwater and verifying with the one-dimensional model, Mazandaran Province, Iran.

## **Research Area**

- Groundwater pollution, Surface water pollution, Air pollution, Noise pollution.
- Solid Waste Management, Environmental pollution.
- Simulation of water & air pollution.

## **Work Experience**

- Faculty member at Khorramshahr University of Marine Science and Technology (KMSU) from 2008 till date
- Official Expert in Environmental Protection for the Justice System: 2005–present.
- Designer of Nationwide Exam Questions for M.Sc. Degree in Marine Environment: 2011–2016.

## **Relevant Skills**

- Use of HPLC, GC, ICP & Spectrophotometry; Measurement of physical and chemical parameters of water, extraction and cleanup of pesticide residues in water.

## **Computer Skills**

- a) WINDOWS XP, Internet, Office 2016(PowerPoint, Excel, Word)
- b) Professional software (Arc GIS 9.3, Arc view, EDRISI), GS<sup>+</sup>, CLALIN4, CMLS

## **Teaching Experience**

### ***Teaching at Bachelor's degree level, Subjects taught:***

1. Recognition and Protection of the Environment
2. Solid Waste Management
3. Rights and Environmental Management,
4. Improving Nature and the Environment
5. Wetlands Ecology
6. Land use Planning
7. Air pollution
8. Water pollution

### ***Supervision of B.Sc. Research:***

1. Environmental Impact assessment
2. Surface and Groundwater Pollution
3. Air Pollution
4. Solid Waste Management
5. Simulation of Groundwater and Air Pollution
6. Zoning of Groundwater & Noise Pollution by using GIS

### ***Advisor of M. SC. Research***

- Khabazian A., Dadolahi Sohrab A., Alishahi M., **Khazaei SH.**, Mohammad Asgari H., The study of bioaccumulation and toxic effects of the herbicide Atrazine on some hematological grypus (*Barbus grypus*). Khorramshahr University of Marine Science and Technology, June 2014.
- Fazelpoor Kh., Dadolahi Sohrab A., Elmizadeh H., Mohammad Asgari H., **Khazaei SH.**, Performance evaluation of satellite images to measure sea surface temperature and carbon fixation in the Persian Gulf. Khorramshahr University of Marine Science and Technology, September 2014.

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- Soleimany A., Dadolahi-Sohrab A., Mohammad-Asgari H., Elmizadeh H., **Khazaei SH.**, Investigation on the dust effects on sea primary production in the Persian Gulf. Khorramshahr University of Marine Science and Technology, September 2014.
- Razmi M, Mohammad-Asgari H, Dadollahi-Sohrab A, Nazemosadat SMJ, **Khazaei SH.** Vibration Monitoring of Coastline in the Persian Gulf and Its Link with ENSO Phenomenon Using Landsat Images. Khorramshahr University of Marine Science and Technology, Winter 2016.
- Farhadi S, Mohammad-Asgari H, Dadollahi-Sohrab A, Nazemosadat SMJ, **Khazaei SH.** Evaluation and calibration of dust algorithms retrieval to determine the Persian Gulf using MODIS data. Khorramshahr University of Marine Science and Technology, Winter 2016.

Saadatmand M., Dadolahi-Sohrab A., Ronagh MT., **Khazaei SH.**, A study of heavy metals accumulation (Cu, Ni, and Pb) by fish (*Siganus Javus*), seaweed and sediment in coastal areas of Bushehr Province. Khorramshahr University of Marine Science and Technology, Winter 2016

### **Publications**

#### ✓ **ISI Journals:**

- 1) Saadatmand M., Dadolahi-Sohrab A., Tavani MB., **Khazaei SH.**, Saadatmand F., Monitoring heavy metal contamination on the Iranian coasts of the Persian Gulf using biological indicators: risk assessment for the consumers, Journal of Environmental Monitoring Assessment, 2022
- 2) Elham Mohammadian a, Asadollah Babai Ahari, Mahdi Arzanlou, Shahin Oustan, **Sayyed Hossein Khazaei.**, Tolerance to heavy metals in filamentous fungi isolated from contaminated mining soils in the Zanjan Province, Iran, Journal of Chemosphere, 2017.
- 3) Razmi M, Mohammad-Asgari H, Dadollahi-Sohrab A, Nazemosadat SMJ, **Sayyed Hossein Khazaei.**, Monitoring oscillations coastline of Dayyer city during the El Niño and La Niño using OIF utility index, Indian Journal of Geo-marine science, 2017.
- 4) Khosro Fazelpoor, Ali DadollahiSohrab, Heeva Elmizadeh, Hossein Mohammad Asgari, **Sayyed Hossein Khazaei.**, Evaluating the Efficiency of the Use of Satellite Images in Measuring the Sea Surface Temperature and Carbon Fixation in the Persian Gulf, Technical Journal of Engineering and Applied Sciences, accepted 2015.

#### ✓ **National Journals:**

- 5) **S. H. Khazaei**, N. Khorasani, Kh. Talebi Jahromi & M. Ehteshami. Investigation of Diazinon insecticide residues in groundwater in Mazandaran province, Iran. Journal of Natural environment, University of Tehran. 2010.
- 6) **S. H. Khazaei**, M. Moeinaddini, R. Rafiee, N. Khorasani, Melanie L. Sattler. Development of ILGAM model to predict generation and methane emission from landfill. Iran. J. Health & Environ., 2022, Vol. 15, No.3
- 7) I. Zarei, A. R. Pourkhabaz, H. Alipour, **S. H. Khazaei.** Acute Toxicity and the Effects of Copper Sulphate (CuSO<sub>4</sub>.5H<sub>2</sub>O) on the Behavior of the Black Fish (*Capoeta Fusca*), Iranian Journal of Toxicology, Volume 6, No 19, Winter 2013. (In English)
- 8) **S. H. Khazaei**, M. Dalvand, B. Eskandari & R. Taghizadeh Mehrjardi. Spatial distribution of nitrate ion in Andimeshk groundwaters using the geostatistical methods. Journal of Natural environment, University of Tehran. 2014.
- 9) **S. H. Khazaei**, Z. Ahmadi Alkooei & M. Shariari. A Survey of Lead, Nickel and Cadmium Concentration on Consumable Fish in Khorramshahr City. JundishapurSci Med J 2013;12(4):409-418
- 10) **S. H. Khazaei**, H. Abasitabar & R. Taghizadeh Mehrjardi. Spatial Distribution of Nitrate Contamination in Groundwater Using Geostatistic in Fars Province (Case Study: Siakh Darengoun Area)

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- 11) Khabazian A., Dadolahi Sohrab A., Alishahi M., **Khazaei SH.**, Mohammad Asgari H., Evaluation of acute and sub-lethal toxicity of herbicide, Atrazine, on hematological parameters of *Barbus grypus*
  - 12) Khabazian A., Dadolahi Sohrab A., Alishahi M., **Khazaei SH.**, Mohammad Asgari H., Effect of herbicide Atrazine chronic toxicity on bioaccumulation process in fillet of *Barbus grypus*
  - 13) Soleimany A., Mohammad-Asgari H., Dadolahi-Sohrab A., Elmizadeh H., **Khazaei SH.**, Investigation on the dust effects on sea primary production in the Persian Gulf using remote sensing data (accepted)
  - 14) Soleimany A., Mohammad-Asgari H., Dadolahi-Sohrab A., Elmizadeh H., **Khazaei SH.**, Evaluation of optical depth from MODIS satellite imagery in the Persian Gulf (accepted)
  - 15) Saadatmand M., Dadolahi-Sohrab A., Ronagh MT., **Khazaei SH.**, The Seasonal concentrations of heavy metals (Ni, Cu and Pb) in the sediments from the coastal areas of Province of Bushehr, Journal of Oceanography, Winter 2016 (submitted)
  - 16) Soleimany A., Dadolahi-Sohrab A., Mohammad-Asgari H., Elmizadeh H., **Khazaei SH.**, Investigation ten years change of chlorophyll-a in the Persian Gulf using remote sensing data, Journal of Environmental Science and Technology, Winter 2016 (submitted)
  - 17) Razmi M., Mohammad-Asgari H., Dadolahi-Sohrab A., Nazemosadat SMJ, **Khazaei SH.** Monitoring oscillations coastline of Dayyer city during the El Niño and La Niño using OIF utility index. Journal of Physical Geography Research Quarterly, Winter 2015. (submitted)
  - 18) Farhadi S., Mohammad-Asgari H., Dadolahi-Sohrab A., Nazemosadat SMJ, **Khazaei SH.** Use of Reflective functions and radiative transfer models for production of LUT tables to determine the amount of dust, Winter 2015. (submitted)
  - 19) Farhadi S., Mohammad-Asgari H., Dadolahi-Sohrab A., Nazemosadat SMJ, **Khazaei SH.** Preparation of LUT table by RT3 radiative transfer model to determination amount of aerosols, Winter 2015. (submitted)
- ✓ **International Conferences**
- 20) Khazaei SH., Rafiee R., Moeinaddini M., Khorasani N., Mollaei A., Sattler M., ILGAM model for predicting generation and emission of methane from landfills in semi-arid regions of Iran, ICLRS, North Carolina, USA. September 2022.
  - 21) Khazaei SH., Rafiee R., Moeinaddini M., Khorasani N., Mollaei A., Sattler M., ILGAM model for predicting generation and emission of methane from landfills in semi-arid regions of Iran, A&WMA, California, USA. June 2022.
  - 22) **Khazaei SH.**, Khorasani N., Talebi-Jahromikh., Diazinon residues in well water samples from Mazandaran province (Iran). Water down under 2008 incorporating 31th hydrology and water resources symposium and the 4th international conference on water resources and environmental research (ICWRER), Adelaide, Australia. April 2008.
  - 23) **Khazaei SH.**, Khorasani N., Talebi Jahromikh., Groundwater contamination by nitrate diazinon residues Mahmoud-abad area (Iran). Water down under 2008 incorporating 31th hydrology and water resources symposium and the 4th international conference on water resources and environmental research (ICWRER), Adelaide, Australia. April 2008.
- ✓ **National Conferences**
- 24) **S. H. Khazaei** & Z. Broon. Spatial Distribution Salinity Groundwater by Using Geostatistic in Khuzestan Province (Case Study: GhaleTol Plain Area), 5<sup>th</sup> National Seminar Chemistry & Environment, 21-23 Dec, 2011.
  - 25) **S. H. Khazaei**, N. Khorasani, M. Ehteshami & R. Taghizadeh Mehrjardi. Predict the Influence of Different Layers of Soil Nitrate Fertilizer and its Effects on Groundwater Quality Using CMLS Model in Mahmoud Abad of Mazandaran Area. 2009.

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- 26) **S. H. Khazaei**, N. Khorasani & Kh. Talebi Jahromi. Assessment of Groundwater Quality and Health Effects of the Pesticide Diazinon in Mazandaran Province (case study: City of Mahmoud Abad). Shahid Beheshti University, October 2009.
- 27) **S. H. Khazaei** & Z. Hasanpour. Investigation of noise pollution in the crowded area of Abadancity in 1389, 13th National Conference on Environmental Health, Kerman University of Medical Sciences, October 2011.
- 28) **S. H. Khazaei**, A. Safavian & S. Soleimani. Assessment the Karun river quality based on the WQI between Samen, ChamGolok & Dez, 4th National Conference on World Environment Day, Tehran University, Jun2010.
- 29) **S. H. Khazaei**, S. Soleimani & A. Safavian. Zoning the Karun river water quality using the WQI index between Gargar&Shotait. 4th National Conference on World Environment Day, Tehran University, Jun 2011.
- 30) **S. H. Khazaei**, N. Khorasani&Kh. Talebi Jahromi. Investigation of Diazinon pesticide residues in groundwater of Mazandaran province. 1th National Conference on World Environment Day, University of Tehran, Jun 2007.
- 31) **S. H. Khazaei** & S. Seifi. Zoning of noise pollution in Abadan international airport by using geostatistics. 6th National Conference on World Environment Day, Tehran University. Jun 2012.
- 32) R. Taghizadeh Mehrjardi, Sh. Mahmoudi, M. Zareiyani & **S. H. Khazaei**. Study of spatial variability of groundwater salinity by using Geostatistics (case study: Rafsanjan city). 2nd conference on Environmental Engineering, University of Tehran. May 2007.

### ***National Journal Referee***

- Journal of Marine Science and Technology (Khorramshahr University of Marine Science and Technology)
- Journal of Jentashapir (Ahvaz Jundishapur University of Medical Science)