



## Azadeh Agah Professor

Faculty : Engineering

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
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## Education

- ✓ B.Sc, Mining Engineering, University of Birjand - 2001
- ✓ MS, Mining Engineering, Shahrood University of Technology - 2004
- ✓ PhD, Mining Engineering, Shahrood University of Technology - 2012
- ✓ PhD, Mining Engineering, Shahrood University of Technology - 2012

## Thesis

### 1. wsp

[Azadeh Agah], محمد شكوهي

نیمسال دوم سال تحصیلی 97-98

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## Master Thesis

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1. Risk assessment of potentially toxic elements and determining their possible origin in the water and soil resources of Bahabad area using statistical methods

حسن جمال زائي, [Azadeh Agah, Ebrahim Elahi Zeyni, Hamed Khosravi, Mohammad Bameri]

نیمسال اول سال تحصیلی 1402-1403

2. Treatment and removal of heavy metal of acid mining drainage using MFC technology: لاتین

مهديه اچاك, [Azadeh Agah, Vajihe Yousefi, Alireza Rezvani, Mozghan Zakeri, Ali Akbar Daya, Bahareh Pirzadeh]

نیمسال اول سال تحصیلی 1401-1402

3. Detection of geochemical anomalies by use of geostatistics and fractal geometry based on GIS technology- case study: Janja region of Sistan and Baluchistan province

اسحاق داروبرد, [Azadeh Agah, Ali Akbar Daya, Soheil Zaremotlagh, Marzieh Hosseini Nasab, Hossein Moeinkhah]

نیمسال اول سال تحصیلی 1401-1402

4. Experimental study of metal-organic framework preparation for heavy metal removal from industrial wastewater

پري سلطاني, [Mozghan Zakeri, Abdolreza Samimi, Azadeh Agah]

نیمسال اول سال تحصیلی 01-00

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## Journals Papers

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### 2025

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1. [Green synthesis of ZIF-8 nanoparticles for the simultaneous removal of Cd II\) and Sb III\) from contaminated wastewater](#)

Pari Soltani, Mozhgan Zakeri, Abdolreza Samimi, Azadeh Agah

Advances in Environmental Technology Volume: (11) 75 - 90

2. [Modeling Multi-Phase Reactive Transport of Petroleum Hydrocarbons in Rey Industrial Area](#)

Azadeh Agah, Faramarz Doulati Arde Jani

Journal of Mining and Environment Volume: (16) 667 - 688

3. [Modeling Hydrocarbon Plume Dynamics in Shallow Groundwater of the Rey Industrial Area, Iran: Implications for Remediation Planning](#)

Azadeh Agah, Faramarz Doulati Ardejani, Muntasir Shehab, Christoph Butscher, Reza Taherdangkoo

Water Volume: (17) 1 - 16

### 2024

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4. [Effect of Number of Exploration Criteria in Data-driven Mineral Potential Mapping Approaches](#)

Azadeh Agah, Ghadirisufi Elham, Yousefi M.

International Journal of Engineering Volume: (37) 2507 - 2516

### 2023

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5. [Mapping Hydrothermal Alteration Zones Associated with Copper Mineralization using ASTER Data: A Case Study from the Mirjaveh Area, Southeast Iran](#)

Marzieh Hosseini Nasab, Azadeh Agah

International Journal of Engineering, Transactions A: Basics Volume: (36) 720 - 732

6. [Modeling of petroleum hydrocarbons by indigenous microorganisms in the region under Nitrate reduction conditions](#)

Ali Akbar Daya, Azadeh Agah

journal of hydrosciences and environment Volume: (6) 24 - 30

### 2022

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7. [2D Simulation of Dynamic Transportation of Volatile Hydrocarbons in Vadose Zone of Tehran Oil Refinery and Industrial area of Ray, Tehran, Iran](#)

Azadeh Agah, Faramarz Doulati ArdeJani, Mohamad Javad Azinfar

Journal of Mining and Environment Volume: (13) 809 - 820

## 8. Assessment of Groundwaters Quality for Industrial and Agricultural Applications Using Consecutive Gaussian Simulation

Reza Dehshibi, Azadeh Agah

Journal of Mineral Resources Engineering Volume: (7) 19 - 38

## 9. Failure study of nonpersistent and closed joints using PFC2D software

Mohamad Javad Azinfar, Vahab Sarfarazi, Azadeh Agah

Volume: (6) 51 - 62

## 2021

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## 10. Studying effect of modifying nano-mineral adsorbents on efficiency of dye removal from industrial effluents

Azadeh Agah, Nasrin Flahati

Journal of Mining and Environment Volume: (12) 219 - 233

## 11. Exploration of iron and chromite by geological and geophysical studies in Shovin area, Sistan and Bluchestan Province

Azadeh Agah, Marzieh Hosseini Nasab

Volume: (7) 299 - 316

## 2020

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## 12. The design and implementation of prediction of heavy metals in acid mine drainage using multi-output adaptive neuro-fuzzy inference systems (ANFIS) - a case study

Azadeh Agah, Nona Soleimanpournoghadam

International Journal of Mining and Geo-Engineering Volume: (54) 59 - 64

## 2015

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## 13. A CFD Model for Prediction of the Role of Biomass Growth and Decay on the Aerobic Biodegradation of BTEX Fate and Transport in an Unconfined Aquifer System

Azadeh Agah, f dolati ardjani

International Journal of Environmental Research Volume: (9) 933 - 942

## 2013

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## 14. Two-dimensional numerical finite volume modeling of processes controlling distribution and natural attenuation of BTX in the saturated zone of a simulated semi-confined aquifer

Azadeh Agah, Faramarz Doulati Ardejani, Hossein Ghoreishi

Arabian Journal of Geosciences Volume: (6) 1933 - 1944

## 2012

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## 15. An Assessment of Factors Affecting Reactive Transport of Biodegradable BTEX in an Unconfined Aquifer System, Tehran Oil Refinery, Iran

Hossein Ghoreishi, Azadeh Agah, Faramarz Doulati Ardejani

International Journal of Mining and Geo-Engineering Volume: (46) 193 - 208

## Research Project

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2016

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