

Dr. Mohsen Rezaei

CURRICULUM VITAE

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EDUCATION

Ph.D. in Hydrogeology, Shiraz University, Shiraz, Iran, 2003
Reactive Transport Modeling Simulation of Calcite Dissolution in the fresh-salt water mixing zone

MS in Hydrogeology, Shiraz University, Shiraz, Iran, 1998
Hydrogeology of karstic chloride springs, Rahmat Anticline, Iran

B.Sc., Geology, Shiraz University, Shiraz, Iran, 1995
Emphases in Geology

HONORS AND SCHOLARSHIP:

Top score student in M.S. degree
Scholarship: Iran Ministry of Science, Researches and Technology [Ph.D.]
6 months Scholar visit in Polytechnic University of Catalonia, Barcelona, Spain

EMPLOYMENT HISTORY

Associate professor staff	2012 to Pres.	Kharazmi University of Tehran, Academic
Assistant professor staff	2003 to 2012.	Kharazmi University of Tehran, Academic
Ph.D. Student	1998 to 2003	Faculty of Sciences, Shiraz University
Ms. Student of hydrogeology Shiraz, Iran	1995-1998	Faculty of Sciences, Shiraz University,
B.Sc. Student of Geology /	1991-1995	Faculty of Sciences, Shiraz University, Shiraz, Iran

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CURRICULUM VITAE

COURSES :(TEACHING AT KHARAZMI UNIVERSITY)

Advanced Hydrogeochemistry (PhD. Hydrogeology)
Advanced Water Tracing (PhD. Hydrogeology)
Karst Hydrology (PhD. Hydrogeology)
Groundwater hydraulics (Ms. Hydro Geology)
Advanced Hydrogeology (Ms. Hydro Geology)
Fluid mechanics, (Ms. Hydro Geology)
Ground water Abstraction (Ms. Hydrogeology)
Tracers (Ms. Hydrogeology)
Hydrochemistry and Water Quality, (Ms. Hydrogeology)
Hydrogeochemistry (Ms. Geochemistry)
Water Pollution (Ms. Environmental Geology)
Surveying, (Bs. Geology)
Geomorphology, (Bs. Geology)

COURSES: (AT OTHER UNIVERSITEIS)

Advanced Hydrogeology (Ms. Hydrogeology), Sistan and Baluchestan University
Ground water Hydraulic (Ms. Hydrogeology), Sistan and Baluchestan University
Ground water Modeling (Ms. Hydrogeology), Sistan and Baluchestan University
Tracers (Ms. Hydrogeology), Sistan and Baluchestan University
Ground water Abstraction (Ms. Hydrogeology), Sistan and Baluchestan University

PROFESSIONAL AFFILIATIONS

Member, Geological Society of Iran.
Member, Iranian Association of engineering geology.
Member, Iranian water resources association
Member, International Association of hydrogeologist.

PUBLICATIONS

JOURNAL PAPERS:

- 1- Darush Mahmoudi, **Mohsen Rezaei**, Javad Ashjari, Mir Masoud KheirkhahZarkash, An Investigation of Transport of Escherichia Coli in Homogenous Saturated Porous Media Using Breakthrough Analysis, International Bulletin of Water Resources & Development, Vol. (II)– No. (03)- S.N. (06) - Summer 2014.
- 2- A. Shakeri, A. Afrasiabian, **M. Rezaei** and M. Karimi, Assessment of trace elements contamination in surface sediments of the Bakhtegan lake, Iran, IJST (Iranian Journal of Science & Technology) 38A1: 75-85 2014

- 3- Samad Moradi, **Mohsen Rezaei**, A GIS-based comparative study of the analytic hierarchy process, bivariate statistics and frequency ratio methods for landslide susceptibility mapping in part of the Tehran metropolis, Iran, *JGeope* 4 (1), 2014, PP. 45-61.
- 4- Khedri,A., **Rezaei, M.** and J. Ashjari, Assessing Karst Development Potential in Pion Anticline using GIS,RS and Analytical Hierarchy Process (AHP), *Iran-Water Resources Research*, Volume 9, No. 3, PP. 37-46, Winter 2014 (in persion)
- 5- Majid Dashti Barmaki, Mohsen Rezaei, Amir Saberi Nasr, Assessment of groundwater quality index (GQI) for Lenjanat aquifer using GIS, *Engineering Geology Journal*, Vol. 8, No. 2, pp. 2121-2138, 2014 (in persion)
- 6- Vahab Amiri, **Mohsen Rezaei**, Nasim Sohrabi, Groundwater quality Assessment using entropy weighted water quality index (EWQI) in Lenjanat, Iran, *Environ. Earth. Sci.*, 2014
- 7- Faeze Foroghi, **Mohsen Rezaei**, Optimization of Groundwater Level Monitoring Network in Tabriz Plain using Geostatistics, *Environmental Geology*, Vol. 7, No. 22, pp. 93-107, 2013 (in persion)
- 8- Amir Saberi Nasr, **Mohsen Rezaei**, Majid Dashti Barmaki, Groundwater contamination analysis using Fuzzy Water Quality index (FWQI): Yazd province, Iran, *JGeope* 3 (1), 2013, P. 47-55
- 9- **Mohsen Rezaei**, The chemical evolution of groundwater in the Kerman plain aquifer, Iran, *Int. J. Water*, Vol. 7, Nos. 1/2, 2013
- 10- **Mohsen Rezaei**, Vahab Amiri, Evaluating the Groundwater Quality Variations Using Factor Analysis Combined with Information Entropy Theory, *Journal of Environmental Studies*, Vol. 39, No. 2, PP. 33-44, 2013 (in persion)
- 11- Amir Saberi Nasr, **Mohsen Rezaei**, Majid Dashti Barmaki, Javad Mansouri Majoumerd, Aplication of Mamdani Fuzzy Inference System (MFIS) in Analysis of Groundwater Quality, Case study: Tabas Aquifer, Vol.1 No. 1, pp. 35-44, 2013 (in persion)
- 12- Saberi Nasr, A., Rezaei M., and M. Dashti Barmaki, Analysis of Groundwater Quality using Mamdani Fuzzy Inference System (MFIS) in Yazd Province, Iran, *International Journal of Computer Applications* (0975 – 8887), Volume 59– No.7, December 2012
- 13- **Mohsen Rezaei**, Assessing the Controlling factors of groundwater hydrochemistry in Mond alluvial aquifer, Bushehr, *Journal of Environmental Studies*, Vol. 37, No. 58, PP. 105-116, 2011 (in persion)

- 14- **Rezaei, M.**, The Effect a Recharge Type on the Calcite Dissolution and Porosity Enhancement in Fresh Water lens of Carbonate Coastal aquifer, Engineering Geology, Vol. 3, No.1, 2009 (in persion)
- 15- **Rezaei, M.** and Sargezi, A., Assessing the Effects of Artificial Recharge on the Goharkoh Plain Aquifer, Scientific Quarterly Journal of GEOSCIENCES, Vol. 19, No. 76, PP. 99-106 , 2010 (in persion)
- 16- **Rezaei, M.**, Jomenia, J. and K. Khodaei, Determination of suitable areas for artificial groundwater recharge in Hesaruye Plain aquifer Using Mathematical model and GIS, Addvanded applied Geology Journal, Vol. 1, No. 1, PP. 67-79, 2010 (in persion)
- 17- **Rezaei, M.**, Application of Statistical Methods, Saturation Indices, and the Composite Diagrams in the Groundwater Quality Assessment in the Kerman Plain Aquifer, Iran-Water Resources Research, Volume 5, No. 3, PP. 28-38, Winter 2010 (in persion)
- 18- **Rezaei, M.** and Nakhaei, M, Spleogenesis of Katalekhkor cave in Zanjan Province, Iranian Journal of Geology, Vol. 2, No. 6, PP. 11-19, 2008 (87, In Persion).
- 19- **Mohsen Rezaei**, Esteban Sanz, Ezat Raeisi, Carlos Ayora, Enric Vazquez-Sune, Jesus Carrera, Reactive transport modeling of calcite dissolution in fresh-salt water mixing zone, *Journal of Hydrology*, 2004, Vol. 311, PP. 282-297.

Some National or International Conferences

- 1- Keshavarz, F., **Rezaei, M.** and Khedri, A., Management of groundwater resources in closed basins: Case Study, Korbal plain, Fars province, *National Water conference, Clean Water*, Tehran, 2010
- 2- **Rezaei, M.**, Keshavarz, F. and Khedri, A., Assessing Trends and risones of Groundwater Quality Variation in Korbal Plain, Fars Province, *Proceedings of the 14th symposium of geological society of Iran*, Oromia, 2010
- 3- Moradi, S., **Rezaei, M.** and Porhemmat, J., Effect of Structural, Lithological and Topographic Factors on Occurrence of Spring Between Shiraz to Yasuj, using RS and GIS, *01st Iranian National Conference on Applied Research in Water Resources*, Kermanshah, 2010
- 4- Jafari, F. and **Rezaei, M.**, Assessing Hydrogeochemistry of Ghochan-Shirvan Alloviaal Aquifer, *01st Iranian National Conference on Applied Research in Water Resources*, Kermanshah, 2010

- 5- **Rezaei, M.**, Assessing the effect of over-exploitation on the Abdan-Dayer coastal aquifer, Iran, *Trends and Sustainability of Groundwater in Highly Stressed Aquifers (Proc. of Symposium JS.2 at the Joint IAHS & IAH Convention, Hyderabad, India, and September 2009)*. IAHS Publ. 329, 2009.
- 6- Maryam Jamali, Nozar Samani and **Mohsen Rezaei**, Monitoring the petroleum leakage and soil and water pollution in Tehran Refinery, *ICWR (International Conference of Water Remediation)*, Shahrod, 2009
- 7- **Rezaei, M.**, Ghorbani, S. and Bomeri, M., Hydrogeology and Geothermometry of Mahalat Thermal Springs, *1st National conference of Hydrogeology*, Behbahan, 2009
- 8- NejadJahromi, Z., **Rezaei, M.**, Assessing Groundwater Quality of Chahgah Aquifer in Bushehr Province, *27th Symposium of Geosciences*, Tehran, 2009
- 9- **Rezaei, M.** and Dashti, B.M., Assessing Hydrogeology of Dashtak and Shahneshin Anticlines in order to Recognition of Sasan Spring Basin using GIS, *27th Symposium of Geosciences*, Tehran, 2009
- 10- NejadJahromi, Z., **Rezaei, M.** and Askari, S., Assessing Groundwater Quality of Chahgah Aquifer for Domestic Use, *3rd national water&wastewater conference on demand management*, Tehran, 2009
- 11- **Rezaei, M.**, and Bostani F., Assessing Tracers Characteristics for Selecting Suitable Tracer for Yasuj Waterfall, *2nd National conference of water*, Behbahan, 2009
- 12- **Rezaei, M.**, Methods for Detection and Control of Salt Water Intrusion in Coastal Aquifers, *2nd National conference of water*, Behbahan, 2009
- 13- **Rezaei, M.**, The Critical Aquifers in Iran, Case Study: Abdan- Dayer Aquifer in Bushehr Province, *1st National conference of Hydrogeology*, Behbahan, 2009
- 14- **Rezaei, M.**, Bemani, M and Ajdarimoghadam, M., Comparison of DRASTIC and GODS models in Pollution Vulnerability of Yazd-Ardekan Plan Aquifer using GIS, *08th International Congress on Civil Engineering*, Shiraz, Iran, 2009
- 15- **Rezaei, M.**, Bemani, M and Ajdarimoghadam, M., Assessing Pollution Vulnerability of Yazd-Ardekan Plan Aquifer using GIS, *Integrated water resources management national conference*, Zahedan, 2008
- 16- **Rezaei, M.**, Jomenia, J., Khodaei, K. and Zare, M., Prediction of optimum turnover of Hesaruye plain aquifer using mathematical model, *1st national conference on utilization integrated management of water resources*, Kerman, 2008

Dr. Mohsen Rezaei

CURRICULUM VITAE

- 17- Fakhr, M. and **Rezaei, M.**, Determinations of suitable areas for artificial groundwater recharge in Shoru aquifer using Fuzzy logic and GIS techniques, *1st national conference on utilization integrated management of water resources*, Kerman, 2008
- 18- **Rezaei, M.**, Nakhaei, M. and Mostafavi, R., Studing Hydrogeochemical Characteristics of Sari Aquifer, *Proceedings of the 12nd symposium of geological society of Iran*, Ahvaz, 2008
- 19- **Rezaei, M.** and Sargezi, A., Groundwater flow model development of the Goharkuh plain aquifer, *Proceedings of the 11nd symposium of geological society of Iran*, 2007
- 20- **Rezaei, M.** and Pahlevani, M., Assessment of the potential for groundwater contamination using the DRASTIC/GIS technique, Kazerun - plain aquifer, *Proceedings of the 11nd symposium of geological society of Iran*, 2007, pp. 267-275.
- 21- Simulation of porosity development in fresh-salt water mixing zone, proceeding of 18th salt water intrusion meeting(SWIM), Spain, 2004
- 22- The source of salinity in the korbali aquifer, south of Iran, proceedings of water 99 joint congress, Brisbane, Australia, 1999
- 23- The source of low quality of groundwater, Korbali plain, Iran, *Proceedings of the 3rd symposium of geological society of Iran, 1999*, pp. 280- 284.
- 24- Use of Oxygen-18 isotope to characterize the source of salinity of karstic springs, Rahmat anticline, Iran, *Proceedings of the 3rd symposium of geological society of Iran, 1999*, pp. 285- 290.
- 25- Hydrogeology and geochemistry of Mamasany thermal spring, *Proceedings of the 4th symposium of geological society of Iran, 1999*, pp. 17- 21.
- 26- Use of water budget to characterize the source of salinity of karstic springs, Rahmat anticline, Iran, *Proceedings of the 3rd symposium of geological society of Iran, 1999*
- 27- The Source of low quality of karstic springs, Rahmat anticline, Iran, *Proceedings of the 2nd symposium of geological society of Iran, 1998*, pp. 231- 234.

Some of MSc thesis under my supervisory (Student, Subject, Date)

- 1- **Shabani, F.**, Assessing source and concentration of potentially toxic elements in Sari plain aquifer, 2014

- 2- **Kalhor, M.**, Estimation of groundwater balance parameters in Zarand plain using numerical modeling, 2014
- 3- **Ganji, D.**, Evaluation of Return Water of Irrigation to Groundwater in Noorabad Aquifer by Mathematical Model, 2014
- 4- **Ahmadi K.**, the investigation of salt water intrusion using hydrochemical methods in coastal aquifer of Sari-Nwka plain, 2013
- 5- **Jabbari, M.**, Optimization of Groundwater resource monitoring quality networks in Birjand aquifers using geostatistics – fuzzy techniques, 2013
- 6- **MoradiNejad, T.**, Risk assessment of groundwater Pollution using indexing methods and Monte Carlo techniques in Qazvin aquifer, 2013
- 7- **Ghorbanzadeh, R.**, Optimization of Groundwater monitoring networks in Dezful-Andimesk aquifer using geostatistics and GIS techniques, 2012
- 8- **Keshavarz, F.**, Forecasting groundwater quality fluctuations using time- series analyze and geostatistics in korbali plain, 2012
- 9- **Sabeti R.**, Surface recharge assessment in karstic aquifer using remote sensing and GIS techniques: Case study Koohsefid anticline, 2012
- 10- **Sardari, A.A.**, Capture zone determination of drinking water wells of Charkhab region using Finite difference method, 2011
- 11- **Akbar Khedri**, the contribution of remote sensing and GIS data for karst development progression along with springs hydrograph analysis in Pion anticline, 2011
- 12- **Majid Dashti**, Assessment of potential for karst groundwater resources using remote sensing and GIS techniques in Dshtak and Shahneshin anticline, 2010
- 13- **Samad Moradi**, investigation of influence of structural phenomena on the selective karstic springs hydrograph in the Shiraz-Yasuj range using remote sensing and GIS techniques, 2010
- 14- **Mostafavi, R.**, Hydrogeochemistry and Quality modeling of drinking water wells of Sari, 2009
- 15- **Jamali, M.**, Groundwater vulnerability of Tehran Oil Refinery by Industrial pollutants using MODFLOW and MT3DMS models, 2009
- 16- **Ghorbani, S.**, Hydrogeology and Geothermometry of Mahalat Thermal Springs, 2009

- 17- **Jomeenia J.**, Modeling groundwater flow of Hesaruye plain and assessing effects of artificial recharge using numerical model and GIS, 2009
- 18- **Fakhr Bhabadi, M.**, Determinations of suitable areas for artificial groundwater recharge in Domak aquifer using Fuzzy logic and GIS techniques, 2009
- 19- **Sargezi A.**, “Groundwater modeling of groundwater in Gohrkuh Plain aquifer”, 2007
- 20- **Pahlevani, M.**, “Assessment of the potential for groundwater contamination using the DRASTIC/GIS technique, kazerun- plain aquifer”, 2007
- 21- **Bemani M.**, “Assessment of the potential for groundwater contamination using the DRASTIC/GIS technique, Yazd - plain aquifer”2007

Accomplished Projects:

- 1- Potentially toxic elements, N and P contamination and origin in the Tajan aquifer and introducing suitable approach for controlling pollution, 2014
- 2- Capturer zone determination of drinking water wells of Charkhab region using Finite difference method, 2014
- 3- Examining factors influencing transport of E.Coli through porous media in experimental model, 2013
- 4- Integrated water resources management of Atrak Basin- Groundwater and Hydrogeology, 2009
- 5- Assessing environmental effects of tracers application in hydrogeology studies, Case study: Yasuj waterfall, 2008
- 6- Integrated water resources management of Bushehr province- Groundwater and Hydrogeology, 2007
- 7- Environmental Effects of Bam Earthquake, 2005
- 8- Spelogenesis of Khatale Khor Cave in Zanjan Province, Kharazmi University, 2005
- 9- Hydrogeology of Mamasani Thermal Spring, Islamic Azad University (Yasuj), 2004