

Curriculum Vitae



1. Personal Data

Name:	Ahmad Aryafar
Date of Birth:	30/04/1979
Place of Birth:	Birjand, Iran
ID Number:	0652508731
Nationality:	Iran
Marital Status:	Just Married
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Organization Position:	Manager of Free Educations and Foreign Students
Academic Degree:	Ph. D. of Mining Engineering
Academic Position:	Associate Professor of Mining Engineering
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2. Research Interests

Environmental Hydrogeology
Geochemical Exploration
Economical Evaluation and Risk Analysis
Environment Engineering
Application of Statistics and Probability in Earth Sciences
Hydrochemistry of Groundwater
Remote Sensing and GIS
Geostatistic
Designing and Management of Exploratory Projects

3. Academic information

**Bachelor of Science (B.Sc.):
(Mining Exploration)**

University of Birjand, Birjand, Iran
From 1998 to 2002

**Master of Science (M.Sc.):
(Mining Exploration)**

Shahrood University of Technology, Shahrood,
Iran, From 2002 to 2004

**Doctor of Philosophy (Ph.D.):
(Mining Exploration by Name,
Environmental Hydrogeology)**

Shahrood University of Technology, Shahrood,
Iran, From 2004 to 2009

4. Title of Thesis

B.Sc. Thesis:

Geochemical Exploration in Dehsalm Sheet, East
of Iran

M.Sc. Thesis:

Analysis of Exploratory Geochemical Data in
Khusf 1:50000 Sheet for recognition of promising
area

Ph. D. Thesis:

Investigation of Environmental Hydrogeology in
related to North C Anomaly in Sangan Iron Mine

5. Taught Courses

Evaluation of Mineral Reserves (B. Sc)
Mine Economy (B. SC)
Mine Dewatering (B. Sc)
Principle of Mineral Exploration (B. Sc)
Application of Computer in Mining (B. Sc)
Engineering Statistics and Probability (B. Sc)
Advanced Mathematics (M. Sc)
Specific Subjects (M. Sc)
Environment Engineering (M. Sc)
Geostatistics (M. Sc)
Technical and Economical Evaluations in Mining
(M. Sc)

6. Reviewer for

1. Arabian Journal of Geosciences
2. International Journal of Mining and Geo-Engineering (IJMGE)
3. Journal of Mining and Environment (JME)
4. Journal of Mining Engineering
5. Journal of Economical Geology
6. Environmental Earth Sciences (EES)

7. Publications (Internal and International Journals and Conferences)

1. **A. Aryafar**, H. Jalayeri, A. Bani Asadi & H. Zeia, 2009, Investigation of groundwater quality in Sarbisheh basin using AWQI and Durov diagrams, South-Khorasan Province, Sarbisheh, Iran, International Conferences on Water Resource, 16-18 August 2009, Shahrood, Iran
2. M. Karamoozian & **A. Aryafar**, 2009, Mine drainage management in order to control the environmental impacts using statistical approach, International Conferences on Water Resource, 16-18 August 2009, Shahrood, Iran
3. **A. Aryafar** & F. Doulati Ardejani, 2009, Anisotropy and bedding effects on the hydro geological regime in a confined aquifer to design an appropriate dewatering system, International Journal of Environmental Science and Technology, Volume 6, issue 4, 563-570, Autumn 2009, ISC Journal.
4. **A. Aryafar**, f. Doulati Ardejani & R.N. Singh, 2009, Numerical modeling of groundwater inflow from a confined aquifer into Sangan open pit mine, northeast Iran, Geomechanics and Geoengineering: An International Journal, Volume 4, Issue 3, September 2009, 189-199., Taylor and Francis Group.
5. **A. Aryafar**, F. Doulati Ardejani & E. Baafi, 2009, Groundwater recovery simulation for determination of post-mining lake formation at the Sangan iron mine, Mashhad, Iran, Journal of Geology and Mining Research, Volume 1, Issue 5, July 2009, 111-117.
6. **A. Aryafar** & f. Doulati Ardejani, 2009, the study of oxygen diffusion process in metallic waste dump: Analytical and Numerical Modeling, International Journal of Applied Environmental Sciences, Volume 4, Number 3, pp. 287-294.
7. **A. Aryafar** & F. Doulati Ardejani, 2009, Estimation of filling rates of shallow mining pit lakes using finite element model, International Conferences on Water Resource, 16-18 August 2009, Shahrood, Iran.
8. **Aryafar. A**, Doulati. F, R.N. Singh & B. Jodeiri, 2007, Prediction of groundwater inflow and the height of the seepage face in a deep open pit mine using numerical finite element and analytical solution, IMWA-2007 Symposium, 27-31 may 2007, cagliary, Italy
9. Doulati. F, R.N. Singh, E. Baafi, S.Z. Shafaei & **Aryafar.A**, 2007, Prediction of post mining groundwater recovery pattern in an unconfined aquifer to predict open cast mining backfill settlement, IMWA-2007 Symposium, 27-31 may 2007, cagliary, Italy.
10. **Aryafar. Ahmad**, Doulati Ardejani. Faramarz, Singh. Raghu & Baafi. Ernest, 2008, Numerical Finite-element Modelling of Pumping Data in a Confined Aquifer at the Sangan Iron Mine to Design a Mine Dewatering system, 10th IMWA congress: Mine water and the Environment, Karlovy Vary 2-6th June 2008.
11. **Aryafar. Ahmad**, Doulati Ardejani. Faramarz, Singh. Raghu & Baafi. Ernest, 2008, Hydrogeological Investigations in Sangan Iron Mine, Iran, to control Groundwater Problems: mathematical Modelling and Field Study, 10th IMWA congress: Mine water and the Environment, Karlovy Vary 2-6th June 2008.
- 12 **Aryafar, A.**, Doulati Ardejani, F., 2008, verification of numerical modeling results using analytical solution for

oxygen diffusion process in sulfide waste dump, International conference of WSEAS '08, Greece, Corfu.

13. **Aryafar, A.**, Chamani, M., Massinaei, M., 2010, Selection of an appropriate location in order to establish the Concentrator next to one mineral deposit using IDRISI software, International Multidisciplinary Science GeoConference SGEM 2010, Proceedings, pp. 1035-1040.

14. **Aryafar, A.**, Chamani, M., Mehrshad, N., 2010, Mapping of the stream sediment geochemistry data in order to recognize the promising area, Southeast of Iran, Birjand, International Multidisciplinary Science GeoConference SGEM 2010, Proceedings, pp. 469-474.

15. **Aryafar, A.**, Massinaei, M., 2010, Treatment of the mine drainages to use for agricultural, Industrial and domestic usages as a strategy to cope water crisis, Case study: Iranian Mines, International Multidisciplinary Science GeoConference SGEM 2010, Proceedings, pp. 949-956.

16. Massinaei, M., Doostmohammadi, R., **Aryafar, A.**, 2010, COLLECTION RATE CONSTANT MODELING IN A FULL-SCALE FLOTATION COLUMN, International Multidisciplinary Science GeoConference SGEM 2010, Proceedings, pp. 631-638.

17. Rooki R., Doulati Ardejani F., **Aryafar A.**, Bani Asadi A, 2011, Prediction of heavy metals in acid mine drainage using artificial neural network from the Shur River of the Sarcheshmeh porphyry copper mine, Southeast Iran, Environmental Earth Science, vol. 64: 1303-1316, published online 17 February 2011.

18. **Aryafar, A.**, Shiva, M., Zaremotlagh, S., 2011, Comparison of Rock Units Separation and Fuzzy Logic Methods in Neutralizing the Syngentic Effects in Geochemical Data, a case study in Eastern part of Iran, Birjand, Journal of Geology and Mining Research, Vol. 3(1), pp.1 -6.

45. Shiva, M., **Aryafar, A.**, Zaremotlagh, S., 2011, Fuzzy c- means Cluster Analysis, a Robust Multivariate Technique in Stream Sediment Geochemical Exploration, a Case Study in Eastern part of Iran, Birjand, Journal of Geology and Mining Research, Vol. 3 (1), pp. 7-14.

19. **Aryafar, A.**, Doulati Ardejani, F., Massinaei, M., 2010, The Study of Sar Cheshmeh Copper Ore Impact on Water Quality of Shoor River, Sar Cheshmeh Mine, Kerman Province, Iran, Proceedings of the XIIth International mineral processing symposium, pp.1073-1078, 6-8 October 2010, Cappadocia Nevsehir, Turkey.

20. Hasani, M., **Aryafar, A.**, 2010, Statistical Analysis of the heavy metals concentrations during Leachate of Sari landfill, Sari, Mazandaran Province, Iran, Proceedings of the XIIth International mineral processing symposium, pp.1067-1072, 6-8 October 2010, Cappadocia Nevsehir, Turkey.

21. Massinaei, M., Noaparast, M., **Aryafar, A.**, 2010, The effect of froth residence time on the flotation kinetics in an industrial column in rougher circuit, Proceedings of the XIIth International mineral processing symposium, pp.389-395, 6-8 October 2010, Cappadocia Nevsehir, Turkey.

22. **Aryafar, A.**, Doulati Ardejani, F., 2013, R-mod factor analysis, a popular multivariate statistical technique to evaluate water quality in Khaf-Sangan basin, Mashhad, Northeast of Iran, Arabian Journal of Geosciences, Vol. 6: 893-900, Online: June 2011

23. **Aryafar, A.**, Javanshir Give, M., Zare Motlagh, S., 2011, MAPPING OF RAW GEOCHEMICAL DATA IN ORDER TO IDENTIFY THE PROSPECTUS AREA IN KHUSF 1:50000 SHEET, IRAN, International Multidisciplinary Science GeoConference SGEM 2011, 20-25 June, Proceedings, pp. 823-830.

24. **Aryafar, A.**, Javanshir Give, M., Zare Motlagh, S., 2011, SENSITIVITY ANALYSIS OF INVESTMENT IN SARBISHEH BASALT-ANDESITE MINE, BIRJAND, USING OF MOT CARLO SIMULATION, International Multidisciplinary Science GeoConference SGEM 2011, 20-25 June, Proceedings, pp. 927-932.

25. Javanshir Give, M., **Aryafar, A.**, 2011, MODELING AND CLASSIFICATION OF ROOF ROCK BEHAVIOR IN COAL MINES CONSIDERING CONDITIONS OF EAST ALBORZ COAL MINES, IRAN, International

Multidisciplinary Science GeoConference SGEM 2011, 20-25 June, Proceedings, pp. 845-852.

26. Javanshir Give, M., **Aryafar, A.**, 2011, THE EFFECT OF DISCONTINUITIES ON GROUND CONTROL IN EAST ALBORZ COAL MINE, SHAHROOD, SEMNAN PROVINCE, IRAN, International Multidisciplinary Science GeoConference SGEM 2011, 20-25 June, Proceedings, pp. 971-974.

27. **Aryafar, A.**, Javanshir Give, M., 2011, THE ALGORITHM OF THE RISK ASSESSMENT PROCESS FOR CHEMICAL SOLVENTS IN ENVIRONMENTAL PROBLEMS, International Multidisciplinary Science GeoConference SGEM 2011, 20-25 June, Proceedings, pp. 655-660.

28. **Aryafar, A.**, Gholami, R., Rooki, R. Doulati Ardejani, F. 2012, Heavy metal pollution assessment using Support Vector Machine In the Shur River, Sarcheshmeh Copper mine, Iran, Environmental Earth Sciences, Vol. 67: 1191-1199. January 2012.

29. **Aryafar, A.**, Yousefi, S., Doulati Ardejani, F., 2013, The weight of Interaction of mining activities- groundwater in environmental impact assessment using fuzzy analytical hierarchy process (FAHP), Environmental Earth Sciences, Vol. 68: 2313-2324. DOI: 10.1007/s12665-012-1910-x

30. Doulati Ardejani F., Rooki R., Jodeiri shokri B., Eslam Kish T., **Aryafar A.**, Tourani P., 2013, Prediction of Rare Earth Elements in neutral Alkaline Mine Drainage From Razi Coal Mine, Golestan Province, Northeast Iran, using General Regression Neural Network., Journal of Environmental Engineering, ASCE., Vol. 139:896-907.

31. Majid keykha Hoseinpoor, Ahmad Aryafar, 2014, The Use of Robust Factor Analysis of Compositional Geochemical Data for the Recognition of the Target Area in Khusf 1:100000 Sheet, South Khorasan, Iran, *Int. J. Min. & Geo-Eng.* Vol.48, No.2, December 2014, pp.191-199.

32. Aryafar, A., Doulati Ardejani, F., Shakoor Shahabi, R., 2009, The statistical analysis of consumed water volume and generated drainage in Iranian mines and the treatment of drainage to cope with water crisis, 6th Engineering Geology and Environment of Iran, Tarbiat Modares University, 8-9 Octobr.

33. Aryafar, A., Doulati Ardejani, F., Mahvi, M.R., Keyanoosh, P., 2009, Using of water quality and saturation index for evaluation of groundwater quality in Khaf-Sangan basin, 3th symposium and Exhibition of Environmental Engineering, Tehran University, 17-18 Octobr.

34. Aryafar, A., Doulati Ardejani, F., Mikaeil, R., 2006, Mining activities impacts on environment and diminish its effects, 5th Student Mining Conference, Isfahan, pp.711-719.

35. Aryafar, A., Doulati Ardejani, F., 2006, The comparison of analytical and numerical results for oxygen diffusion process in sulfidic waste dump, 7th Congress on Saftey, Health Environment in Mines and Related Industries, 9-11 May, Tehran.

36. Aryafar, A., Doulati Ardejani, F., Mahvi, M.R., Keyanoosh, P., 2008, Hydrochemistry study of Sangan iron mines' aquifer in order to determine the water quality by use of gathered samples during pumping test, 26th Symposium on Geosciences, Geological Survey of Iran, 17-18 February.

37. Moradzadeh A., Aryafar, A, Shiva, M., 2005, The factor analysis of geochemical data in Khusf 1:100000 sheet for identification of the promising area, 9th Symposium of Geological Society e of Iran, Teacher Training University, Tehran-Iran.

38. Aryafar, A., Moradzadeh A., Shiva, M., 2005, Elimination of Syngentic Component From Khusf 1:50000 geochemical data by calculating of Enrichment Index, 9th Symposium of Geological Society of Iran, Teacher Training University, Tehran-Iran.

39. Aryafar, A., 2005, Evaluating of Sarbishe Andesit- Baslt Mine, 24th Symposium of Geosciences, Tehran,

40. Doulati Ardejani, F., Aryafar, A., 2007, Selection of an appropriate site for deposit waste in Coal Mines by considering of Environmental aspects using Idrisi Software, Case study: Gheshlagh Coal Mine, Gorgan Province, 11th Symposium of Geological Society of Iran, Ferdowsi University.
41. Doulati Ardejani, F., Aryafar, A., 2007, Using of PHONEICS Software for Prediction of Pollution with related to Acid Mine Drainage, 1th Symposium on Environment, University of Tehran. March 2007.
42. Doulati Ardejani, F., Aryafar, A., 2006, Numerical Finite Element Modeling For Simulation of Groundwater Rebound to a Deep Mine in Unconfined Aquifer, 25th Symposium on Geosciences, Geological Survey of Iran, Tehran, March 2006.
43. Aryafar, A., Doulati Ardejani, F., 2006, Numerical Finite Element Modeling for Prediction of Groundwater inflow and the height of Seepage Face in to a Deep Mine, 25th Symposium on Geosciences, Geological Survey of Iran, Tehran, March 2006.
44. Aryafar, A., Mikaeil, R., Rooki, R., 2006, Economical Evaluation of Kaskak Mine and Risk Analysis Using of @risk Software, 10th Symposium of Geological Society of Iran, Teacher Training University of Tehran-Iran, September 2006.
45. Aryafar, A., Moradzadeh, A., Shiva, M., 2006, The Analysis of Enrichment Index Event Probability for Recognition of Promising Area in Khusf 1:50000 Sheet, 10th Symposium of Geological Society of Iran, Teacher Training University of Tehran-Iran, September 2006.
46. Doulati Ardejani, F., Aryafar, A., Shafaei Tonkaboni, S.Z., Kakaei, R., 2008, Using of Shrinking Core Model For Prediction of Contamination Potential in Sulfidic Waste Dump, 26th Symposium on Geosciences, The Geological Survey of Iran, February 2008.
47. Aryafar, A., Doulati Ardejani, F., Zaremotlagh S., 2010, Finite volume numerical modeling for prediction of pyrite oxidation and pollution generation at waste dump of north C anomaly in Sangan iron mine, 3th Iranian Mining Engineering Conference, pp. 1649-1656, Yazd University, January 2010
48. Aryafar, A., Doulati Ardejani, F., Zaremotlagh S., 2010, Field and laboratory studies for determining the pyrite fraction at Waste dump of north C anomaly in Sangan iron mine, 3th Iranian Mining Engineering Conference, pp. 1657-1664, Yazd University, January 2010.
49. Zaremotlagh, S; Aryafar, A., 2010, An introduction to a quantitative model for studies geochemical anomalies dilution in Qorveh Sheet, 3th Iranian Mining Engineering Conference, pp. 160-168, Yazd University, January 2010
50. Zaremotlagh, S; Aryafar, A., 2010, An introduction to effective parameters in design the best exploitation method for Golchin decorative stones mine in south of Nehbandan, 3th Iranian Mining Engineering Conference, pp. 774-781, Yazd University, January 2010.
51. Massinaei, M; Aryafar, A., Abrishami, M., 2010, Application of Multivariate Regression for modeling and optimization of Mineral processing Process, 10th Iranian Statistic Conference, Tabriz university, August 2010.
52. Aryafar, A., Mikaeil, R., Ataei, M., 2010, Selection of an Appropriate Method to Extract the Structural Stones Using TOPSIS multi-criteria Method, Applied Geology, No.3, pp.162-169.
53. Zaremotlagh, S., Aryafar, A., Fatemi, S.A.A., Marjani Bajestani, S.E., 2011, Economical studies in order to give a practical approach for reduction of the productivity costs in building stones industry, Bajestan, Razavi Province, The 29th Symposium on Geosciences, Geological survey of Iran, February 2011.
54. Askari, M.S., Aryafar, A., Javanshir Giv, M., 2011, Evaluation of Geotourism Role in Sustainable Development in South Khorasan Province, The 29th Symposium on Geosciences, Geological survey of Iran, February 2011.

55. Jahan Tigh, M., Nowruzi, Gh.R., Aryafar, A., Zhulideh Sar, F., 2011, Investigation of Geometrical characteristics of Doroh Deposit using of Magnetic Filter and Estimation of Anomaly Depth by use of Tilt Angle, 1th National Conference on Copper, May 2011, University of Kerman.
56. Mohamad Ghasemi, T., Aryafar, A., 2011, Using of the water quality index (WQI), Durov and Piper diagrams for evaluation of groundwater quality in Esfeden basin, Qaen, 7th Conference of Engineering Geology and the Environment, Shahrood University of Technology, September 2011.
57. Ataei, M., Aryafar, A., Zeya, H., 2011, Groundwater quality evaluation in Mokhtaran basin using of water quality indexes, 7th Conference of Engineering Geology and the Environment, Shahrood University of Technology, September 2011.
58. Askari, M.S., Aryafar, A., Zeya, H., Khosravi, V., 2011, Prediction of quality parameters (TH, EC, TDS) of Groundwater in Birjand basin using artificial neural network, 7th Conference of Engineering Geology and the Environment, Shahrood University of Technology, September 2011
59. Askari, M.S., Aryafar, A., Zeya, H., 2011, The study of groundwater quality variation in Birjand basin during 1376-1389 years, 7th Conference of Engineering Geology and the Environment, Shahrood University of Technology, September 2011
60. Nowruz Zadeh, S.A, Aryafar, A., Yousefi, Sh., Jahantigh, M., Shahraki, N., 2011, The study of Tigh No Ab Deposite Using of Magnetic Methods, 15th Symposium of Geological Society of Iran, December 2011, Teacher Training University of Tehran-Iran
61. Askari, M.S., Aryafar, A., Zeya, H., 2011, The Study of Climatology Variation Impact of Groundwater Quality of Birjand Aquifer Basin, 1th Symposium of Agriculture and Environment, Urmia, West Azarbaijan,
62. Zaremotlagh, S., Aryafar, A., 2010, Statistical studies for determining of the effective factors for exploration and economical exploitation of Crumium Deposits of Sistan & Baluchestan, 1st Symposium of Iranian Society of Economic Geology, Ferdowsi University, Mashhad, Agust 2010.
63. Fotoohi Rad, Gh., Nowrouzi, Gh., Aryafar, A., 2012, Petrology and geothermobarometry of Mafic and Ultramafic Igneous Rocks in Ophiolitic Complex of Eastern Birjand, Iranian Journal of Crystallography and Mineralogy, Vol. 4., pp.685-700, Winter 2012
64. Hoseinabadi, M., Aryafar, A., Mikaeil, R., 2012, Using AHP multi-criteria Method for Selection of an Appropriate Method to Extract the Granit Structural Stones, The 30th Symposium on Geosciences, Geological survey of Iran, February 2012
65. Aryafar, A., Khatib, M.M., Javanshir Giv, M., Massinaei, M., Jahanshahi, H., 2012, The comaprision of the road and arial transportation systems and making the train transport syatem in south horasan province., 1st International Symposium of South khorasan, Transit and Eastern Path Development, University of Birjand, Aprill 2012
66. Askari, M.S., Aryafar, A., Javanshir Giv, M., 2012, The Role of train transportation system on Geoturism Development as a main factor on sustainable development in east of Iran, 1st International Symposium of South khorasan, Transit and Eastern Path Development, University of Birjand, Aprill 2012
67. Javanshir Giv, M., Aryafar, A., Massinaei, M., Jahanshahi, H., 2012, The Role of Transportation System on economical development of soth khorasan province by considering of mineral deposit potential, 1st International Symposium of South khorasan, Transit and Eastern Path Development, University of Birjand, Aprill 2012
68. Aryafar, A., Khalili, Kh., Javanshir Giv, M., Massinaei, M., Jahanshahi, H., 2012, Investigation and Determination of investment priorities on Industries in south Khorasan province., 1st International Symposium of South khorasan,

69. Massinaei, M., Javanshir Giv, M., Aryafar, A., Jahanshahi, H., 2012, The Importance of intelligence control systems for development of road and train transportation systems, 1st International Symposium of South khorasan, Transit and Eastern Path Development, University of Birjand, April 2012

70. Havagi, H., Aryafar, A., 2012, The eastern road transit role in development of south khorasan province, 1st International Symposium of South khorasan, Transit and Eastern Path Development, University of Birjand, April 2012

71. Dehjoo, M., Aryafar, A., Zaremotlagh, S., 2012, Remote sensing studies for recognition of the alteration zones in related to hydrothermal deposit in birjand 1:250000 sheet, 4th Symposium of Iranian Society of Economic Geology, University of Birjand, Birjand, pp. 325-330, August 2012.

72. Akhoondi N., Aryafar, A., 2012, The analysis of Mineralization of Hamich Region Deposit, Birjand, Using of Multivariate Regression Method, 4th Symposium of Iranian Society of Economic Geology, University of Birjand, Birjand, pp. 492-497, August 2012.

73. Javanshir Giv, M., Aryafar, A., 2012, The investigation of Mines and Mining Industries on Economic of Industries and the making necessary for increasing of utility in Iranian Coal Mines, 4th Symposium of Iranian Society of Economic Geology, University of Birjand, Birjand, pp. 27-32, August 2012.

74. Zaremotlagh, S., Hezar Khani, A., Eini Far, H., Aryafar, A., 2012, Exploratory studies and Technical and Economical Evaluation of Gounich Chromium Deposit of Sistan & Baluchestan, 4th Symposium of Iranian Society of Economic Geology, University of Birjand, Birjand, pp. 403-409, August 2012.

75. Nowruz Zadeh, S.A., Noruzi, Gh, Aryafar, A., Jahantigh, M., Fatehi, M., 2012, Investigation of Bardaskan Ali Beig Mineral Deposit Indices Using of Magnetometry, 4th Symposium of Iranian Society of Economic Geology, University of Birjand, Birjand, pp. 792-797, August 2012.

76. Yousefi, Sh., Shiva, M., Noruzi, Gh, Aryafar, A., Eshraghi, M.H., 2012, Identification of Promising area using of multivariate approaches in Grazan, Qaen Region, 4th Symposium of Iranian Society of Economic Geology, University of Birjand, Birjand, pp. 634-639, August 2012.

77. Heydari, S.R., Aryafar, A., 2012, Groundwater quality investigation in Nehbandan basin of South Khorasan using of statistical and graphical methods, 16th Symposium of Geological Society of Iran, 4-6 september, University of Shiraz

78. Mohamad Ghasemi, T., Ghorbani, A., Aryafar, A., 2012, Investigation of Qale Zaree Processing Factory impacts on soil pollution, 16th Symposium of Geological Society of Iran, 4-6 September, University of Shiraz.

79. Askari, M.S., Aryafar, A., Fotoohi Rad, Gh., 2012, The Study of Geological formation effect on Groundwater Quality in Birjand basin, 5th Conference on Mining Engineering, pp. 186-193., 9-10 October, University of Tehran.

80. Askari, M.S., Aryafar, A., Fotoohi Rad, Gh., 2012, Determination of Type and Quality of Groundwater in Birjand Basin by respect to Erosion and Precipitation Properties, 5th Conference on Mining Engineering, pp. 194-200., 9-10 October, University of Tehran

81. Mohamad Ghasemi, T., Ghorbani, A., Aryafar, A., 2012, The Use of 2-Dimensional Tomography Approach for Detecting of Penetrating Depth of Qale Zaree Processing Factory Drainage, South Khorasan, 5th Conference on Mining Engineering, pp. 105-109., 9-10 October, University of Tehran

82. Zarei Darmeyan, M.A., Aryafar, A., 2013, Investigation of Hydrochemistry of Groundwater in Asadeyeh Basin, South Khorasan, National Symposium On Water and Drainage Engineering, Kerman University of Technology, 26 February.
83. Rostami, S., Shiva, M., Aryafar, A., 2013, Investigation of Geochemical data in Saghez 1:20000 sheet, Kani Pari Region, Using of Fuzzy C-Means Cluster, 1st Symposium on Applied Geochemistry of Iran, University of Damghan, 27August
84. Rostami, S., Shiva, M., Aryafar, A., 2013, Investigation of Geochemical anomalous Zones for As, Hg, and Sb in Kani Pari Region, Saghez City, Using of Multivariate statistical methods, 1st Symposium on Applied Geochemistry of Iran, University of Damghan, 27August
85. Rostami, S., Shiva, M., Aryafar, A., 2013, Grade Estimation of As in Stream Sediment Geochemical Exploration Using of Neural Networks in Kani Pari area, Saghez City, 1st Symposium on Applied Geochemistry of Iran, University of Damghan, 27August
86. Farshadmehr, M.A., Aryafar, A., 2013, Identification of Au Mineral Potential in Basiran 1:100000 sheet, South Khorasan, Using of Area-Spectra Fractal Method, 1st Symposium on Applied Geochemistry of Iran, PP. 139-144, University of Damghan, 27August
87. Farshadmehr, M.A., Aryafar, A., 2013, Investigation of Geochemistry of Gold Mineral Potential in Basiran 1:100000 sheet, 1st Symposium on Applied Geochemistry of Iran, PP. 1-7, University of Damghan, 27August
88. Farshadmehr, M.A., Aryafar, A., Shiva, M., 2013, Recognition of Fe Mineral Potential in Basiran 1:100000 sheet, South Khorasan, Using of Fractal Method, 5th Symposium of Iranian Society of Economic Geology, pp.540-545, Ferdowsi University of Mashhad, 11 September.
89. Farshadmehr, M.A., Aryafar, A., Shiva, M., 2013, Investigation of Gold Mineral Potential in Basiran 1:1000000 sheet using of Fuzzy C-Means Cluster, 5th Symposium of Iranian Society of Economic Geology, pp.316-321, Ferdowsi University of Mashhad, 11 September.
90. Farshadmehr, M.A., Aryafar, A., Abdollahi, A., 2013, The processing of the remote sensing data for mineral exploration in Basiran 1:100000 sheet, South khorasan, 1st National Conference On exploration Engineering of Underground Resources, University of Shahrood, 10 December
91. Alinezhad Moghadam, N., Aryafar, A., 2013, The study of groundwater quality in Qaen basin using of hydro chemical graphs and water quality index, 1st National Conference On exploration Engineering of Underground Resources, University of Shahrood, 10 December
92. Hoseinabadi, M., Aryafar, A., 2014, The selection of an appropriate usage for mine reclamation by respect to natural criteria using of TOPSIS approach, 32nd National and 1st International Geosciences Congress, Geological Survey of Iran, 16-19 February, Rasht, Gilan
93. Hoseinabadi, M., Aryafar, A., 2014, Using of TOPSIS technique for determination of the suitable usage in reclaimed mining area base on cultural criteria, 32nd National and 1st International Geosciences Congress, Geological Survey of Iran, 16-19 February, Rasht, Gilan.
94. Keykha Hoseinpoor, M., Aryafar, A., Yousefi, M., 2014, Using of the Staged Factor Analysis (SFA) for increasing of the gGeochemical Halo Intensity in Khusf 1:100000 sheet, South Khorasan, 32nd National and 1st International Geosciences Congress, Geological Survey of Iran, 16-19 February, Rasht, Gilan.
95. Moini, H., Aryafar, A., 2014, The Use of Independent Principle Component Analysis (IPCA) for Geochemical Data Processing, Case Study: Afin Area, South Khorasan, 1st National Symposium of Mathematics Application in Geosciences, University of Shiraz, 8 May 2014.

96. Aryafar, A., Mohamad Ghasemi, T., Ghorbani, A., 2015, The Environmental Geophysics and Geochemistry Studies in order to investigate the pollutant impacts of Drainage in Qale Zaree Mineral Processing Factory, South Khorasan, *Journal of Mining Engineering*, Vol. 23, pp. 81-94.
97. Majid keykha Hoseinpoor, Ahmad Aryafar, 2014, The Use of Robust Factor Analysis of Compositional Geochemical Data for the Recognition of the Target Area in Khusf 1:100000 Sheet, South Khorasan, Iran, *Int. J. Min. & Geo-Eng*, Vol.48, No.2, December 2014, pp.191-199.
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100. Biglari Ardabili, B., Aryafar, A., Alinezhad, S., Naghi Nasab, S.B., 2014, Evaluation of Ground Water Quality in Northeast of Gorgan Using of Water Quality Index (WQI) and Piper, Durov Diagram, 6th Symposium of Iranian Society of Economic Geology, University of Sistan & Baluchestan, 11 September.
101. Keykha Hoseinpoor, M., Aryafar, A., 2014, Application of Univariate Statistical Methods For Recognition of Promissing Area in Khusf 1:100000 Sheet, South Khorasan, 5th Conference On Mining Engineering, Mosalaye Imam Khomeini Tehran, 14 October.
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103. Biglari Ardabili, B., Aryafar, A., Alinezhad, S., 2014, Evaluation of Ground Water Quality in East of Sari Using of Graphical and Statistical Methods, 5th Conference On Mining Engineering, Mosalaye Imam Khomeini Tehran, 14 October.

8. M.Sc. Thesis Titles I supported as Supervisor or Advisor

Thesis Title	Student's Name	Finished On
1. Hydrochemical Study Of Birjand Basin's Aquifer (As the supervisor)	Mohamad Sadegh Askari	September 2011
2. The evaluation of mineral reserves in central anomaly of Sangan iron mine using of DATAMINE software (As the Advisor)	Habib Gholami Haji Mohamadi	September 2011
3. The Estimation of Anomaly Depth by use of Oiler Method in Doruh Area, South Khorasan Province (As Advisor)	Moslem Jahan Tigh	September 2011
4. The compacted Inversion modeling of magnetic data in Marvast area in Yazd Province (As Advisor)	Farshad Zhulideh Sar	September 2011
5. The analysis of exploratory model of copper deposits on Hamich region using of multivariate statistical methods (As the Supervisor)	Nasrin Akhoondi	September 2012
6. The study of environmental impacts of mineral dressing factory in Qale-Zari Copper Mine, Birjand (As the First Supervisor)	Taherh Mohamad Ghasemi	September 2012
7. Hydro geochemistry study of aquifer in Darmeyan Basin, south Khorasan Province (As the Supervisor)	Maria Ataei	September 2012
8. The recognition of mineral promising area in Grazan area of Qaen (As the Advisor)	Shooreh Yousefi	September 2012
9. The processing of Geomagnetic Data in order to recognize the magnetic anomaly in Ali bayk district in Bardaskan City (As the advisor)	Seyed Amir Nowrouz Zadeh	September 2012
10. Geochemical exploration on Kudakan 1:100000 sheet, Birjand, South Khorasan (As the Supervisor)	Mohamad Khorashadi Zadeh	September 2013
11. Geochemical exploration on Basiran 1:100000 sheet, Birjand,	Mohamad Amain Farshadmehr	September 2013

South Khorasan (As the Supervisor)

12. The study of Geological formation impacts of groundwater quality in aquifer of Qaen basin, South Khorasan (As the Supervisor)	Naser Ali nezhad Moghadam	September 2013
13. Geochemical exploration of Saghez 1:20000 sheet for identification of the target area (As the Advisor)	Sirvan Rostami	September 2013
14. Geochemical exploration of Kafaz 1:20000 sheet, Darmeyan, East of Iran (As the Advisor)	Morteza Kaheni	February 2014
15. The analysis of geochemical data on Qaen 1:100000 sheet for recognition of the promising area (As the Advisor)	Ali Shabani	February 2014
16. The evaluation of safety and health of sport Salones using of multi criteria decision making methods (As the Advisor)	Javad Roshandel	September 2013
17. The use of Hopfield and MLP neural networks for modeling of metallic and color pollutant adsorption process from industrial drainage using of perlite (As the First supervisor)	Arash Ebrahimi Khaki	February 2014
18. Using of staged factor analysis (SFA) and geochemical mineralization probability index (GMPI) for identifying the mineralized zones in Khusf 1:100000 sheet (As the Supervisor)	Majid Keykha Hoseinpoor	September 2014
19. The analysis of stream sediment geochemical data on Afshar 1:100000 sheet for detection of mineral potential (As the second Supervisor)	Hamid Moini	September 2014
20. The analysis of stream sediment geochemical data on Room 1:100000 sheet for detection of mineral potential (As the Advisor)	Zahra Zanguei Motlagh	February 2015

21. Using of the geo electrical data for determine the hydraulic parameter in aquifer of Shirkab basin, South Khorasan (As the Advisor)	Seyedeh Maryam Nezami	February 2015
22. The recognition of mineral potential on Songhor 1:100000 Sheet using of geochemical stream sediment data and heavy mineral (As the Advisor)	Shayesteh Karimi	September 2014
23. The monitoring of groundwater quality in aquifer of Gonbad basin during of 1997 to 2011 (As the Supervisor)	Seyed Behnam Naghi Nasab	September 2014
24. The Study of Spatial Distribution of Groundwater Quality Using of R-Mod Factor Analysis and Neural Networks in Aquifer of Gonabad Basin During 206-2013(As The Supervisor)	Jafar Adeli Nasab	September 2015
25. The Systematic Geochemical Exploration in Balugheye 1:20000 Sheet, Ardabil Province	Babak Biglari Ardabili	September 2015