

Curriculum Vitae
Gholamhossein Shamanian Eesfahani
Ph.D. - Associate Professor



Personal Information

Date of Birth : Dec-31-1968
Place of Birth: Esfahan, Iran
Marital Status: Married
Postal address : Department of Geology, Faculty of Sciences, Golestan University

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Academic Qualifications

Ph.D.: 1998-2003, Economic Geology, Shahid Beheshti University, Tehran, Iran

M.Sc.: 1991-1994, Economic Geology, Shiraz University, Shiraz, Iran

B.Sc.: 1987-1991, Geology, University of Shahid Chamran, Ahwaz, Iran

Present Status

Full-time faculty member of Golestan University - Associate Professor

Major Research Interests

- Environmental geochemistry
- Detrital zircon geochemistry
- Zircon trace element geochemistry
- Stable isotope geochemistry
- Geology of ore deposits

Teaching

BSc: Economic geology, Geochemistry, Petrology, Ore reserve estimation, Geology of Iran, Field geology, Geological mapping

MSc: Geochemical Exploration, Igneous and Metamorphic Ore Deposits, Geochemical projects, Analytical techniques for minerals, rocks and environmental samples, Environmental geochemistry

Supervisor and co-supervisor of postgraduates:

Current: 6 MSc thesis and 1 Ph.D. in Economic Geology and Environmental Geology disciplines

Thesis Finished: 30 MSc thesis and 2 Ph.D. thesis in Economic Geology and Environmental Geology disciplines

Work experience

- **Joint project** entitled "Bauxitization and Lateritization Events in the Eastern Alborz Zone, Iran" in collaboration with Professor Keiko Hattori from **Ottawa University** as a Visiting Professor, **2017-2018**

- **Joint project** entitled "the study of hydrothermal alteration and base and precious metals mineralization in the Moaleman area, Semnan Province, Iran" in collaboration with Dr. Jeffery W. Hedenquist and Dr. Keiko H. Hattori from **Ottawa University** as a major part of the Ph.D. project, **2001-2002**
- **Workshop:** Participation in a Geochemical Data Processing Course, **Prague, Czech Republic 1999**
- **Cooperation with Geological Survey of Iran** as an Economic Geologist, **1995-2001**

Publications- selected

Periodicals

Shamanian, G.H., Hedenquist, J.W., Hattori, K., Hassanzadeh, J., 2004. Comparison of epithermal prospects in Gandy and Abolhassani districts, Semnan Province, Alborz magmatic arc, northern Iran. *Economic Geology* 91, 691-712.

Shamanian, G.H., Hassanzadeh, J., Hedenquist, J.W., Hattori, K., Ghaderi, M., 2004. Comparison of epithermal base and precious metal deposits in Gandy and Abolhassani districts, Semnan Province, Iran. *Scientific Quarterly Journal of Geosciences* 12, 100-107, In Persian.

Shafiei B., **Shamanian Gh.H.**, Mathur R., Mirnejad H., 2014. Mo isotope fractionation .during hydrothermal evolution of porphyry cu systems, *Mineralium Deposita* 50. 281-291.

Amini, L., **Shamanian, G.H.**, Raghimi, M., Jafarzadeh, R., 2011. Mineralogical, geochemical and genetical investigations of the Jajarm karst bauxite deposit, NE Iran, *Iranian Journal of Crystallography and Mineralogy* 19, 413-426.

Fazli, S., **Shamanian, G.H.**, Shafiei, B., 2012. The Emarat and Muchan sedimentary rock-hosted stratabound Zn-Pb deposits: New data and genetic implications, *Iranian Journal of Crystallography and Mineralogy* 20, 67-80.

Kiaeshkevarian, M., **Shamanian, G.H.**, Shafiei, B., 2013. Paleosols of Devonian Padeha Formation in the Eastern-Alborz Zone, NE Iran: Textural, mineralogical and geochemical characteristics, *Iranian Journal of Crystallography and Mineralogy* 20, 739-750.

Faramarzi, R., M., **Shamanian, G.H.**, Shafiei, B., 2013. Gheshlagh Permo-Triassic bauxite in the Eastern-Alborz Zone: Geology and petrography, *Iranian Journal of Crystallography and Mineralogy*, 21, 71-82.

Faramarzi, R., M., **Shamanian, G.H.**, Shafiei, B., 2012. Mineralogy, Geochemistry and Genesis of the Gheshlagh Bauxite Deposit, Southeast of Gorgan, *Journal of Economic Geology*, 4, 29-45.

Amini, L., **Shamanian, G.H.**, Shataee, Sh., Azimmohseni, M., 2013. Spatial and statistical analyses for assessing ore quality in Jajarm bauxite Mine, *Scientific Quarterly Journal of Geosciences* 22, 163-170, In Persian.

Nouriasl, F., **Shamanian. G.H.**, Shafiei. B., Azimmohseni M., Jafari, M., 2012. Epithermal Antimony Mineralization at Arghash District: Mineralogy, Alteration and Geochemistry, *Iranian Journal of Crystallography and Mineralogy* 20, 229-240.

Ahmadi, M.H., **Shamanian, G.H.**, Azmi, H., 2013. Mineralogic and hydrothermal alteration studies of epithermal gold-bearing veins at the Motrabad prospect, NE Iran, *Scientific Quarterly Journal of Geosciences*, 22, 155-164, In Persian.

Publications- selected (Cont.)

Periodicals

Ahmadi, M.H., **Shamanian, G.H.**, Shataee, Sh., 2014. Alteration mapping in the Motrabad epithermal system, South of Razavi Khorasan Province: using ASTER remote sensing data, Iranian remote sensing & GIS 6, 103-118, In Persian.

Shamanian, G.H., Kiaeshkevaryan, M., 2014. Paleosols and bauxites in the Eastern Alborz and implications for Devonian-Permian paleoclimate: Journal of Sedimentary Facies 6, 228-243, In Persian.

Alikhani Banghani, M., **Shamanian, G.H.**, Jafari, M., 2014. Mineralization and hydrothermal alteration of the Tajroud vein system, South of Neyshabour, Journal of Economic Geology 5, 325-339, In Persian.

Habibzadeh, E., **Shamanian, G.H.**, Omrani, H., 2014. Textural elements analysis in the Jajarm karst bauxites: composition and conditions of formation, Journal of Economic Geology 6, 163-176, In Persian.

Shamanian, G.H., Monfared, Z., Omrani, H., 2015. Stratigraphic, Petrographic and Facies Characteristics of the Tash and Astaneh Bauxitic-Lateritic Deposits in Eastern Alborz: Paleoenvironmental Implications: Journal of Sedimentary Facies 8, 71-84, In Persian.

Alaeibakhsh, N., **Shamanian, G.H.**, 2015. Mineralogy, Geochemistry and Genesis of the Cu- Bearing Veins of the Nesen Formation, Southwest of Amol, Central Alborz Zone, Journal of Geochemistry 2, 107-118, In Persian.

Shamanian, G.H., Hosseini Ashlaghi, F., 2016. Mineralogy and geochemistry of the Jurassic coals from the Gheshlagh mine, Eastern Alborz, Journal of Economic Geology 7, 369-382, In Persian.

Mahdavi-akerdi, M., Raghimi, M., **Shamanian G.H.**, Gholipour, M., 2016. Geochemistry and mineralogy of clinker, Portland cement and dust produced in Neka cement factory and it's environmental impacts, Mazandaran Province, Iranian Journal of Crystallography and Mineralogy 24, 173-188/

Shamanian, G.H., Moridi, Z., 2016. Mineralogy, geochemistry and genesis of the Shirinabad clay-bauxite deposit, southeast of Gorgan: Iranian Journal of Geology 39, 103-115, In Persian.

Mehraban, Z., Shafiei, B., **Shamanian G.H.**, 2016. Geochemistry of rare earth elements at the fluorite deposits in Elika formation, Eastern of Mazandaran Province, Journal of Economic Geology 8, 201-221, In Persian.

Abbasi, H., **Shamanian G.H.**, Fardoost, F., 2017. Zinc and lead deposits of Pichamto, North west of Shahrood: Mineralogical, Fluid inclusion and Isotopic studies, Geoscience 26, 241-250, In Persian.

Yousefi, M., Omrani, H., **Shamanian G.H.**, Shafiei, B., 2018. Mineralogical study of the Ghoznavi coal mine, Eastern Alborz, Iranian Journal of Crystallography and Mineralogy 26, 775-788, In Persian.

Ramazani, M., Safari, H., **Shamanian, GH.**, 2019. Investigation on relationship between Copper Mineralization and Tectonic Evolution of Taft Rhombohedral-shape Structure. Scientific Quarterly Journal of Geosciences 28, 249-260, In Persian.

Ramazani, M., Safari, H., **Shamanian, GH.**, Safaei, H., 2020. Determinig the relationship between copper mineralization and structures in Ali abad-Darreh Zereshk area, using subsurface geotechnical and geochemical data. Iranian Journal of Geology 14, 31-48, In Persian.

Kiaeshkevarian, M., Calagari, A.A., Abedini, A., **Shamanian, G.H.**, (2020). Geochemical and mineralogical features of karst bauxite deposits from the Alborz zone (Northern Iran): Implications for conditions of formation, behavior of trace and rare earth elements and parental affinity. Ore Geology Reviews 125, doi.org/10.1016/j.oregeorev.2020.103691

Publications- selected (Cont.)

Periodicals

Shamanian, G.H., Hattori, K., 2021. Neoproterozoic evolution of northern Gondwana recorded in detrital zircon grains from the Gheshlagh bauxite deposit, Alborz Mountains, Iran Block. *Gondwana Research* 93, 184-196.

Ramazani, M., Safari, H., **Shamanian, G.H.**, 2022. Integration of ASTER-based remote sensing with petrographic studies, XRD analysis, and field surveying as a multidisciplinary approach for prospecting Cu mineralization in the Taft-Dehshir region, Iran. *Journal of Applied Remote Sensing* 16. 014508-30

Omrani, H., Günter. Ch., **Shamanian, G.H.**, Omrani, M., 2022. Post-collisional alkaline lamprophyre magmatism in northern Iran: Implications from whole-rock geochemistry and mineral compositions, *Island Arc*, 31(1), e12469. <https://doi.org/10.1111/iar.12469>

Aghaei, M., Rastad, E., **Shamanian, G.H.**, Madanipour, S., 2023. Characteristics of the gold-bearing and barren quartz veins at the Zaylik-Sarilar epithermal deposit, Ahar-Arasbaran Zone, NW Iran: Evidence from mineralogy, alteration, texture and fluid inclusion. *Ore Geology Reviews* 154. doi.org/10.1016/j.oregeorev.2023.105341

Proceedings and Abstracts

I, along with other co-authors, have published more than 60 abstracts and extended abstracts in proceedings of the National and International Conferences

Translated Book

Shamanian, G.H., (2013). *Metals and Society (An Introduction to Economic Geology)*, (Translated from English language to Persian language). ISBN: 978-600-92971-9-1

Original book entitled "Metals and Society (An Introduction to Economic Geology)" by Nicholas Arndt and Clement Ganino, 2012

Geological Map

Taheri, J., and **Shamanian, G.H.** (2001), Geological map of Kashmar (on scale 1:100,000), Geological Survey of Iran

Scientific collaboration

• Research projects

I have completed 7 research projects and have collaborated in 12 research projects with colleagues of mine in Golestan University, and Geological Society of Iran

• Refree

Refreeing of some International Journal such as *Economic Geology* and Persian Journals such as *Journal of Economic Geology*, *Iranian Journal of Crystallography and Mineralogy*, *Scientific Quarterly Journal of Geosciences*, *Iranian Journal of Geology* and *Journal of Geochemistry*.

Membership:

- Iranian Society of Geology
- Iranian Society of Crystallography and Mineralogy
- Iranian Society of Economic Geology
- Society of Economic Geology-for three years

Awards:

- Granted a national scholarship for Ph.D. studies by the Ministry of Sciences, Research and Technology of Iran because of gaining the first rank in Ph.D. exam of Shahid Beheshti university.
- Sabbatical leave award from the Deputy of Research and Technology of Golestan University in 2017-2018

Languages:

Persian (Mother tongue), English (fluent)

Executive responsibility- *Selected*

- Vice-chancellor for Education of Golestan University, 2014-2017
- Dean of Sciences Faculty, 2013-2014
- Technical consultant of some Geology Companies and Mine Industries in Golestan province, 2003-present