

Dr. Vahid Ahadnejad



BIRTH DAY

02-06-1974 – Ardebil, Iran

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EDUCATION

2017-2018	Guest researcher at ETHZ (Switzerland)
2005-2010	University of Tehran (PhD in Geochemistry & Petrology)
2008-2009	Visiting PhD student at the ETHZ (Switzerland)
2000-2003	Research Institute of Geosciences, Geological Survey of Iran (M.Sc. in Geochemistry & Petrology)
1994-1998	Tarbiat Moallem (Kharazmi) University of Tehran (BC in Geology)

MSc thesis title: Geochemical comparison of mafic magmatism of Koushkak and Azadkin volcanics (Saveh) west Iran.

PhD thesis title: Petrology, Geodynamics and Emplacement Mechanism of Malayer Granitic Complex (Western Iran) Based on Anisotropy of Magnetic Susceptibility.

PROFESSIONAL EXPERIENCE

Founder and Editor	Gemological Magazine (New established) http://scj.sbu.ac.ir/index.php/GemologicalMagazine
Visiting Researcher	ETH, Zurich, Switzerland (2017-2018)
Founder and Editor	Journal of Tethys (An international journal of Earth-Sciences) http://jtethys.journals.pnu.ac.ir
Academic Staff (Associate Professor)	At the Payame Noor University of Tehran, Faculty of Science, Department of Geology (2010-Now)
XRF Laboratory Manager	Successfully operate X-Ray Spectrometer instrument (PW-2404) from 2003 to 2007 at the Tarbiat Moallem University of Tehran. I analyzed the several thousand of mine samples. I instruct the MSc. students of geology and chemistry how to perform material analyses.
Geological Museum	Responsible person for Geological Museum of Tarbiat Moallem University of Tehran (2003-2003)
Expert of NGDIR	I worked (2001-2002) effectively as a member of a close team in this part of Geological Survey of Iran (GSI) and was involved in all aspects of the mine and mineral information, and gained many insights into working practices.
GENERAL SKILLS	• <u>Leadership</u>: Supervisor of mineral exploration group (From 2000 to now) • <u>Organisation</u>: In my role as Expert of the National Geoscience Database of Iran (NGDIR), I was in charge of a presentation of requested information. The management of this required proficiency of the geology and IT. I initiated a scheme for mine explorers for the NGDIR, and succeeded in increasing the mine recording by over 30%. • <u>Interpersonal</u>: I worked effectively as a member of a 32 person expert team during my work experience at the NGDIR. The successful completion of the projects required flexibility and co-operation amongst the team members.

Publications

Selected Papers	• Karimi, M., Amiri, N., <u>Ahadnejad, V.</u> 2008. The density and tube energy dependency of cobalt $K\alpha/K\beta$ in x-ray fluorescence spectrometry for thick target measurements, <i>X-Ray Spectrometry</i>, 37: 551–554. • <u>Ahadnejad, V.</u>, Valizadeh, M.V., Deevsalar, R. Rezaei-Kahkhaei, M. 2011. Age and geotectonic position of the Malayer granitoids: Implication for plutonism in the Sanandaj-Sirjan Zone, W Iran. <i>Neues Jahrbuch Für Geologie Und Palaontologie-Abhandlungen</i>. 261(1), 61–75. • <u>Ahadnejad, V.</u>, Hirt, A.M., Valizadeh, M.V., Bookani, S.J. 2011. The ammonium content in the Malayer igneous and metamorphic rocks, Sanandaj-Sirjan Zone, West Iran. <i>Geologica Carpathica</i>. 62(2), 171-180. • <u>Ahadnejad, V.</u>, Valizadeh, M.V., Deevsalar, R., Rasouli, J. 2011. The field and microstructural study of Malayer Plutonic Rocks (MPR), West Iran. <i>Journal of Geopersia.</i>, 1 (1), 59-69. • Rasouli, J., <u>Ahadnejad, V.</u>, Esmaily, D. 2012. A preliminary study of the anisotropy of magnetic susceptibility (AMS) of Boroujerd granitoids, Sanandaj-Sirjan Zone, West Iran. <i>Natural Science</i>, 4, 91-105. • Goodazi-Mehr, <u>Ahadnejad, V.</u>, S., Ali Abbaspour, R., Hamzeh, M. 2013. Using Mixture-Tuned Matched Filtering method for lithological mapping with Landsat TM5 images. <i>International Journal of Remote Sensing</i>, 34:24, 8803-8816. • Rasouli, J., Ghorbani, M., <u>Ahadnejad, V.</u> 2016. Calk-alkaline magmatism of Jebal-e-Barez plutonic complex, SE Iran: Implication for subduction-related magmatic arc. <i>Arabian Journal of Geosciences</i>, 9 DOI: 10.1007/s12517-015-2124-9. • <u>Ahadnejad, V.</u>, Hirt, A.M., Alizadeh, H. 2016. Geological constraints on sustainable urban growth and management of the metropolis of Tehran, Iran. <i>Geological Society of America Special Volume</i>, DOI: 10.1130/2016.2520(24). • Yeganehfar, H., Deevsalar, R., <u>Ahadnejad, V.</u>, Shinjo, R., Neill, I. Biotite compositional variations — A physicochemical approach to investigate crustal involvement and ore potential in Middle Jurassic plutonic rocks from the Malayer-Boroujerd Plutonic complex, W Iran. <i>Journal of Mineralogy and Geochemistry</i>, 196, 19 – 42.
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	• <u>Ahadnejad, V.</u> Origin and significance of tourmaline-bearing rocks in Boroujerd region, Sanandaj-Sirjan zone, western Iran (Submitted to Iranian Journal of Earth-Sciences/ Emerging Sources Citation Index). • Azadbakht, Sh., Masoudi, F., <u>Ahadnejad, V.</u> Post-Collisional subvolcanics associated with granites in NW Iran: Implication for tectono-magmatism in the region (Submitted to Arabian Journal of Geosciences). • Rahimzadeh, B., Mahmoudi, Sh., Corfu, F., <u>Ahadnejad, V.</u>, Von Quadt, A. A unique period of bimodal volcanism at 130-110 Ma in the northern Sanandaj-Sirjan Zone: evidence for an extensional setting (Submitted to Lithos) • <u>Ahadnejad, V.</u>, Krzemnicki, M. S., Hirt, A.M. Gem quality demantoid from Kerman Province, SE Iran: An overview of their mineralogy and gemology (Submitted to Journal of Gemmology). ...and several papers in Persian language...
Abstracts	• <u>Ahadnejad, V.</u>, Valizadeh, M.V., Esmaeily, D. 2008. Shear zone control on the emplacement of Malayer granitoid complex, NW Iran. 2008 Joint Meeting of The GSA. Paper No. 193-12. • <u>Ahadnejad, V.</u>, Valizadeh, M.V., Esmaeily, D. 2009. The magmatism and metamorphism at the Malayer area, Western Iran. <i>EGU</i>. Vol. 11, 151-2. • Salehi, M.H, Doosti, E.A., <u>Ahadnejad, V.</u>, 2009- Mineralization related to Alvand pluton in the Hamadan, western Iran. <i>EGU</i>. Vol. 11, 315-2. • <u>Ahadnejad, V.</u>, Valizadeh, M.V. 2009. Thermobarometry of Malayer S-type granites, Western Iran. 2008 Joint Meeting of The GSA. Paper No. 161771. • <u>Ahadnejad, V.</u> 2009. Geochemistry and petrogenesis of igneous rocks in the Saveh region, NW Iran. <i>Geochimica et Cosmochimica Acta</i>, 73, p.A17 (<i>Goldschmidt abstracts</i>). • <u>Ahadnejad, V.</u>, Valizadeh, M.V. 2010. Field and microscopic analysis of Malayer plutonic complex, West Iran. <i>International Conference on Earth Engineering and Science</i>, 485-490. Nanyang Technological University, Singapore, 26-28 February, 2010. • <u>Ahadnejad, V.</u> 2010. The Comestible Mountain in Hormoz Island, Persian Gulf, Iran. <i>GEOTRENDS</i>, 24-26 June 2010, Novi Sad, Serbia.

	• <u>Ahadnejad, V.</u>, Moradi, A. 2011. Mixing/mingling as the main evolutionary processes of Malayer plutonic rocks, Sanandaj-Sirjan zone, west Iran. <i>EGU</i>. • <u>Ahadnejad, V.</u> 2011. Neoproterozoic to Mesozoic history of Sanandaj-Sirjan Zone, West Iran. <i>Mineralogical magazine</i>, 75 (3), 11 (<i>Goldschmidt abstracts</i>). • Deevsalar, R., <u>Ahadnejad, V.</u>, 2011. Age and geochemical characteristics of the Malayer plutonic complex, west Iran. <i>Mineralogical magazine</i>, 75 (3), 735 (<i>Goldschmidt abstracts</i>). • <u>Ahadnejad, V.</u>, 2011. The origin of myrmekite in the Boroujerd granitoids, Sanandaj-Sirjan Zone. <i>Mineralogical magazine</i>, 562. DOI:10.1180/minmag.2013.077.5.1
Scientific Reports	• Nasiri, Sh., Shirzad, M., <u>Ahadnejad, V.</u>, Ehteshami, M. 2003. Preliminary report of earthquake in Changoore (Qazvin) 3 june 2002, Geological Survey of Iran, 15p.
Books (All in Persian language)	• Sabzehei, M., <u>Ahadnejad, V.</u> 2003. Bibliography of Iranian ophiolites, Geological Survey of Iran, Tehran, Iran, 257p. • <u>Ahadnejad, V.</u> 2011. Structural Geology (E-book). Payame Noor University. Tehran, Iran. • <u>Ahadnejad, V.</u> 2015. Igneous petrology. Payame Noor University publication, Tehran, Iran, 264p. • <u>Ahadnejad, V.</u> 2016. Urban geology. Payame Noor University publication, Tehran, Iran, 290p. • <u>Ahadnejad, V.</u> 2016. Petrology and petrogenesis of granitoids. Geological Survey of Iran (GSI), Tehran, Iran, 339p. • <u>Ahadnejad, V.</u> 2018. Principals of geochemistry. Payame Noor University publication, Tehran, Iran, 312p. • <u>Ahadnejad, V.</u> 2019. Identification and Grading of Diamonds. Pars University of Art and Architect publication, Tehran, Iran, 406p. • <u>Ahadnejad, V.</u>, Masoudi, F., Rahimzadeh, B. 2020. Diamonds (Author: Marijan Dundek), Translation to Persian. Shahid Beheshti University of Tehran Publication, Tehran, Iran, 96p. • <u>Ahadnejad, V.</u> 2021. Fancy Colore Diamonds. Asare Moaser Publication, Tehran, Iran. 250p.
Research projects	• <u>Ahadnejad, V.</u> (2005-2006). Web designing for <i>Earth Science Researchers and Students</i>. Geological Survey of Iran.

	• <u>Ahadnejad, V.</u> 2007. Online scientific support of <i>National Geoscience Database of Iran website</i>. National Geoscience Database of Iran (NGDIR). • <u>Ahadnejad, V.</u> (2006-2010). Petrology, geodynamics and emplacement mechanism of malayer granitic complex (Western Iran) using Anisotropy of Magnetic Susceptibility (AMS). Iran National Science Foundation, Grant No. 86103/32. • <u>Ahadnejad, V.</u> 2011. Landslide disaster potential at new urban of the Maskane Mehr site, Bijar, Kurdistan, Iran. • <u>Ahadnejad, V.</u> 2012. Geological assessment of Malayer (W. Iran) by using Remote sensing techniques. • <u>Ahadnejad, V.</u> 2013. Igneous petrology of northern part of Sanandaj-Sirjan zone (W. Iran). • <u>Ahadnejad, V.</u> 2014. Geochemistry and Cu mineralization in the Jebal-e-Barez plutonic Complex (SE Iran). • <u>Ahadnejad, V.</u> 2015. <i>Urban Geology of Tehran (Iran)</i>. • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Bonejar sheet no. 8352. Geological Survey of Iran (GSI). • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Zabol sheet no. 8252. Geological Survey of Iran (GSI). • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Zabol sheet no. 8252. Geological Survey of Iran (GSI). • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Khomak sheet no. 8351. Geological Survey of Iran (GSI). • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Lutak sheet no. 8251. Geological Survey of Iran (GSI). • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Chahdashi sheet no. 7951. Geological Survey of Iran (GSI). • <u>Ahadnejad, V.</u> 2014-2016. Team Supervisor for preparation of 1:100000 geological map of Jonob-e-Dehsalm sheet no. 7851. Geological Survey of Iran (GSI).
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	• <u>Ahadnejad, V. 2014-2016.</u> Team Supervisor for preparation of 1:100000 geological map of Gharb-e-Nakhileh sheet no. 7850. Geological Survey of Iran (GSI). • <u>Ahadnejad, V. 2014-2016.</u> Team Supervisor for preparation of 1:100000 geological map of Nosratabad sheet no. 7949. Geological Survey of Iran (GSI). • <u>Ahadnejad, V. 2014-2016.</u> Team Supervisor for preparation of 1:100000 geological map of Gharb-e-Nosratabad sheet no. 7849. Geological Survey of Iran (GSI).
Reviewed papers	• Scharf, O., Ihle, S., Ordavo, I., Arkadiev, V., Bjeoumikhov, A., Bjeoumikova, S., Buzanich, G., Gubzhokov, R., Günther, A., Hartmann, R., Kühbacher, M. Lang, M., Langhoff, N., Liebel, A., Radtke, M., Reinholz, U., Riesemeier, H., Soltau, H., Strüder, L., and Wedell, R. 2011. A compact pnCCD-based X-ray camera with high spatial and energy resolution: a Color X-ray Camera. <i>Analitical Chemistry</i>, 83 (7), 2532–2538. • Ahmadi-Khalaji, A., Tahmasbi, Z., Barani Bairanvand, K. 2012. Petrological and geochemical characteristics of Astaneh granitoids (Sanandaj-Sirjan Zone, Western Iran). <i>Geosciences Scientific Quarterly Journal, Geological Survey of Iran, Special Issue Editor</i>. • Fazlnia, F. 2012. Tectonomagmatic evolution of different intrusions from the Northeastern Qori, Southwestern Shahr-e-Babak, south Sanandaj-Sirjan zone. <i>Geosciences Scientific Quarterly Journal, Geological Survey of Iran, Special Issue Editor</i>. • Esna-Ashari, A. 2012. Arc-type magmatism in middle sector of the Sanandaj-Sirjan Zone (western Iran): implications for petrogenetic relations between the granitoids of this area. <i>Geosciences Scientific Quarterly Journal, Geological Survey of Iran, Special Issue Editor</i>. • Sheibi, M. 2012. The role of thermomagnetic curves of granitoid rocks of Shir-Kuh in the specification of minerals. <i>Geosciences Scientific Quarterly Journal, Geological Survey of Iran, Special Issue Editor</i>. • "A geotectonic model for the carbonate-hosted Zn-Pb deposits in the Sanandaj-Sirjan Zone of the Zagros Orogen, SW Iran". <i>Frontiers of Earth Science (FESCI)</i>. • Origin of Evidence of magma mingling process in the Qorveh Granitoid Complex, Sanandaj–Sirjan Zone, Iran. <i>Journal of</i>

	<i>Mineralogy and Geochemistry, formerly Neues Jahrbuch Mineralogie.</i>
Membership Scientific Societies	• Iranian Nanotechnology Society. • Crystallography and Mineralogy Society of Iran. • American Chemical Society • International Association for Promoting Geoethics (IAPG)
Thesis supervisor/a dvisor	• Jamal Rasouli (PhD): Petrology and geochemistry of granitic batholith of Jebale-e-Barez (NE Jiroft) and its porphyry copper mineralization. Shahid Beheshti University of Tehran, Iran. • Mehrnoosh Hayat-Gheibi (MSc): Geochemistry and petrology of Neogene volcanic rocks from SW Solghan, Qom, Central Iran. • Zahra Einabadi (MSc): Geological and geochemical investigations on the skarn alteration zones of Aboozar Iron deposit, NE Sabzevar, Iran. • Majid Babaei (MSc): Mineralogy, geochemistry and gemology of semi-precious quartz in the Hoz-e-Soltan Lake area, Qom province, Central Iran. • Marziyeh Alibabaei (MSc): Mineralogical and gemological characteristics of the Belqeis Mountain's Demantoid, NW Iran. • Tahereh Samsami (MSc): Mineralogy and genesis of Topazolite in the Shahrak Iron deposit, NW Iran (In progress). • Fereshteh Nargesi (MSc): Age and petrogenesis of volcanic rocks of Mianeh, NW Iran. • Shayesteh Azadbakht (PhD): Post-Collisional subvolcanic rhyolites associated with granites, NW Iran. • Mohamad Paydari (PhD): Petrology and Geochemistry of Tertiary Volcanic rocks, Kaleibar, NW Iran. • Fariba Jamshidi (PhD): Petrogenesis of Avaj volcanic rocks, Uromia-Dokhtar Magmatic Arc, NW Iran.

Research interests:

- Mineralogy
- Petrology and geochemistry of Igneous and Metamorphic rocks
- Tectono-magmatism
- Volcanology
- Mineralogy and mineral chemistry
- Geochronology (U-Pb method)
- Geochemical Analytical Methods (XRF, XRD, LA-ICP-MS)
- Environmental geology
- Anisotropy of Magnetic Susceptibility (AMS)
- Palaeomagnetism
- Gemmology

Teaching courses (Bachelor):

- Field geology
- Applied Gemmology
- Colored Gemstones
- Diamond Grading
- Igneous Petrology
- Metamorphic Petrology
- Geochemistry
- Volcanology
- Optical mineralogy

Teaching courses (Master):

- Field geology
- Igneous Petrology
- Metamorphic Petrology
- Advanced Geochemistry

Teaching courses (PhD):

- Petrology of Granitoids

Languages:

Persian: Native

Turkish: Native

English: Professional working proficiency

German: A2